OFS Profitability Applications Pack

Installation Guide

Release 8.0.7.4.0

August 2020

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Financial Services

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OFS Profitability Applications Pack Installation Guide

Document Control

Version Number	Revision Date	Change Log
1.0	August 2020	Created the document to capture the OFS PFT Applications Pack 8.0.7.4.0 Maintenance Level Release installation instructions.

Table of Contents

1   OFS PFT Application Pack Release v8.0.7.4.0

This section provides information about the Oracle Financial Services Profitability (OFS PFT) Applications Pack.

You can find the latest copy of this document in the OHC Documentation Library which includes all the recent additions or revisions (if any) done to date.

Before you begin the installation, ensure that you have access to My Oracle Support with the required login credentials to quickly notify us of any issues at any stage.

Topics:

- Audience
- How this Guide is Organized
- Access to Oracle Support
- Related Documents
- Conventions
- Abbreviations

1.1   Audience

OFS PFT Application Pack Installation Guide is intended for administrators and implementation consultants who handle installing and maintaining the application pack components.

This document assumes that you have experience in installing Enterprise components and basic knowledge about the following:

- OFS PFT Applications pack components
- OFSAA architecture
- UNIX commands
- Database concepts
- Web server or web application server

1.2   How this Guide is Organized

The Installation Guide is organized into the following sections:

- OFS PFT Application Pack Release v8.0.6.6.0
- Pre-installation Requirements
- Installing this Release
- Additional Configurations

1.3 Access to Oracle Support

Oracle customers 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.

1.4 Related Documents

We strive to keep this and all other related documents updated regularly; visit the OHC Documentation Library to download the latest version available there. The list of related documents is provided here.

- OFS Profitability Applications Pack Installation and Configuration Guide Release 8.0.7.0.0
- OFS Funds Transfer Pricing User Guide
- OFS Profitability Management User Guide
- OFS Enterprise Financial Performance Analytics User Guide
- OFS Institutional Performance Analytics User Guide
- OFS Retail Performance Analytics User Guide
- OFS Analytical Applications Technology Matrix
- OFS Analytical Applications Infrastructure Installation and Configuration Guide

1.5 Conventions

The following text conventions are used in this document.

Table 1: Document Conventions

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, file names, text that appears on the screen, or text that you enter.
Hyperlink	Hyperlink type indicates the links to external websites and internal document links.

1.6 Abbreviations

The following table lists the abbreviations used in this document.

Table 2: Abbreviations

Abbreviation	Meaning
BDP	Big Data Processing
DBA	Database Administrator
DDL	Data Definition Language
DEFQ	Data Entry Forms and Queries
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise JavaBean
ERM	Enterprise Resource Management
FTP	File Transfer Protocol
HDFS	Hadoop Distributed File System
HTTPS	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
JCE	Java Cryptography Extension
JDBC	Java Database Connectivity
JDK	Java Development Kit
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
JVM	Java Virtual Machine
LDAP	Lightweight Directory Access Protocol
LHS	Left Hand Side
MFA	Multi-Factor Authentication
MOS	My Oracle Support
OFSAA	Oracle Financial Services Analytical Applications
OFSAAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
OHC	Oracle Help Center
OLAP	On-Line Analytical Processing
OLH	Oracle Loader for Hadoop
ORAAH	Oracle R Advanced Analytics for Hadoop
OS	Operating System
RAM	Random Access Memory
RDBMS	Relational Database Management System

Abbreviation	Meaning
RHEL	Red Hat Enterprise Linux
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TNS	Transparent Network Substrate
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

2   OFS PFT Application Pack Release v8.0.7.4.0

OFS Profitability Applications Pack Installation Guide Maintenance Level (ML) release v8.0.7.4.0 includes all the bug fixes and minor enhancements since the previous Minor release v8.0.7.0.0.

This ML release of OFS PFT Applications Pack can be installed on a setup with any Oracle Financial Services Profitability (OFS PFT) v8.0.7.0.0 Application Pack.

The OFS PFT Applications Pack 8.0.7.4.x release supports Oracle Database Release 19c in addition to the continued support on Oracle Database Release 12c.

In an environment consisting of multiple OFSAA applications, if the October 2020 Critical Patch Update is applied for any one application, it is mandatory to apply the respective October 2020 Critical Patch Updates for all other applications on that OFSAA instance, regardless of the application's version. See the My Oracle Support Doc ID 2724021.1 for details.

NOTE	If the service restart is failing after installing the PFT 8.0.7.4.0 with FTP 8.0.7.4.0 integrated environment and deploying it in Tomcat, then apply either Patch 31874968 or Patch 32105092 to resolve.

2.1   Prequisites

Ensure that the following prerequisites are present before you install this Maintenance Release:

- The minimum patch level installed must be OFS PFT Release **8.0.7.0.0**.

- OFS AAI 80740 ML (Patch ID: **31363605**) is a prerequisite for installing the OFS PFT Pack 80740 ML. For more information, see the Oracle Financial Services Analytical Applications Infrastructure Installation Guide 8.0.7.4.0.

- The unlimited cryptographic policy for Java is enabled during the installation of OFS PFT 8.0.7.0.0. For more information, see the *Enabling Unlimited Cryptographic Policy* section in the OFS Analytical Applications Infrastructure Administration Guide.

- It is mandatory to install the OFS PFT 8.0.7.4.0 ML only on *Java 8 with JCE enabled*. Therefore, configure the Java version of the following to *Java 8 with JCE enabled*.

    - OFSAA Processing Tier (where the ML will be installed)

    - Web server (Tomcat, WebSphere, or WebLogic)

NOTE	To upgrade Java 7 to Java 8 in an existing OFSAA 8.0.7.x.x instance, see *Appendix H* in the OFS Profitability Applications pack Installation and Configuration Guide 8.0.7.0.0.

- Verify the entry for `segment_code` in `OFSAA_SETUP_APPLN_DTLS` table (Config Schema)

    - If `segment_code` is blank or null, execute the below query:

```
update OFSAA_SETUP_APPLN_DTLS set segment_code='##COMMON_SEGMENT##'
where appname in ('EFPA','CIRPA','CIIPA','FTP','PFT');
```

- Replace the `##COMMON_SEGMENT##` with common segment name (for example, PFTSEG) from the `CSSMS_SEGMENT_MAST` table.

2.2 Installing this Release

To install this release patch, follow these steps:

1. Log in to My Oracle Support and search for **31562932** under the Patches & Updates tab.

2. Download the OFS PFT 8.0.7.4.0 OFS PFT ML Release 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 or OEL.

3. Stop all the OFS AAI services. For more information, see the *Stopping Infrastructure Services* section in the OFS Profitability Applications Pack Installation and Configuration Guide 8.0.7.0.0.

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 prior to version 2.15. The application of the 33663417 Mandatory Patch fixes the issue.
>
> For details, see the My Oracle Support Doc ID 2827801.1.

5. Log in to the OFSAA server as a non-root user and navigate to the `$FIC_HOME` directory.

6. Assign WRITE permission to the files or directories such as commonscripts, EXEWebService, ficapp, ficweb, and ficdb using the command:

   `chmod -R 775 *`

7. If you have the 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 8.0.7.4.0 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.

- Assign EXECUTE permission to the utility using the command:

  ```
  chmod 751 unzip_<os>
  ```

  For example, `chmod 751 unzip_aix`

8. Extract the contents of the 8.0.7.4.0 ML archive file using one 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 extract the archive file. An example for the AIX operating system,
   > `unzip_aix -a p31284429_80660_AIX64.zip`

9. Update the parameters in the `params.conf` file present in the `OFS_PFT_PACK/OFS_PFT/conf` directory for the following parameters:

   ```
   UPLOAD_MODEL=0
   ```

10. Navigate to the `OFS_PFT_PACK/OFSAAI/` directory to assign EXECUTE permission to the ML patch installer script using the command:

    ```
    chmod 755 OFSAAIUpdate.sh
    ```

11. Complete the patch upgrade using the command:

    ```
    ./OFSAAIUpdate.sh
    ```

12. Verify if the ML patch is applied successfully by checking the log file generated in the `OFS_PFT_PACK/OFS_PFT/conf` directory. You can ignore error codes ORA-00001 and ORA-02292 in the log file. For any other errors, contact My Oracle Support.

    > **NOTE** For an 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. After successful installation of the ML, follow these steps:

    - Run the following command to execute the *.profile* file:

      ```
      . $HOME/.profile
      ```

    - 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 or WAR file available in the `$FIC_HOME/ficweb` directory.

15. Install the OFSAAIRunner package. This is an optional step and applicable only if you have installed Oracle R Enterprise Edition (ORE). For more information, see *Install the Updated OFSAAI Runner* section in OFS AAI Installation Guide Release 8.0.7.4.0.

16. Generate the application EAR or WAR file and redeploy the application onto your configured web application server. For more information on generating and deploying the EAR or WAR file, see the *Post Installation Configurations* section in the Oracle Financial Services Profitability Applications Pack Installation and Configuration Guide.

17. Update the `web.xml` file to allow the OBIEE Hosts to access OFSAA. To update, follow these steps:

   a. Navigate to the `$CATALINA_HOME/webapps/ofsaa/WEB-INF/` directory and open the `web.xml` file.

   b. Include initialization parameter for filter class:

   ```
   <filter-name>FilterServlet</filter-name>
   ```

   ```
   <filter-class>com.iflex.fic.filters.FilterServlet</filter-class>
   ```

   Include

   ```
   <init-param>
   ```

   ```
   <param-name>AllowHosts</param-name>
   ```

   ```
   <param-value>http://<OBIEE_HOST>:<PORT>/</param-value>
   ```

   ```
   </init-param>
   ```

   Where:

   OBIEE_HOST: fully qualified domain name of OBIEE Host

   PORT: Analytics service port

18. Restart all the OFSAAI services. For more information, see the *Starting Infrastructure Services* section in the Oracle Financial Services Profitability Applications Pack Installation and Configuration Guide.

3 Additional Configurations

3.1 Deploying D3 for OBIEE

For details on deploying D3 for OBIEE, see the following sections in the OFS Profitability Management Applications Pack Installation and Configuration Guide, Release 8.0.7.0.0:

- *Chapter 7 – RPD, Catalog Deployment, D3, and Map View Configuration for OBIEE 11g*
- *Chapter 8 – RPD, Catalog Deployment, D3, and Map View Configuration for OBIEE 12c*

OFSAA Support

Raise a Service Request (SR) in My Oracle Support (MOS) for queries related to the OFSAA applications.

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- Did you find any errors?

- Is the information clearly presented?

- Do you need more information? If so, where?

- Are the examples correct? Do you need more examples?

- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the My Oracle Support.

Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site that has all the revised/recently released documents.