Oracle Financial Services Analytical Applications Infrastructure Extension Pack

Installation Guide

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ORACLE
Financial Services

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Oracle Financial Services Analytical Applications Infrastructure Extension Pack Installation Guide

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Document Control

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2.0	September 2022	Updated the Verify the Log File Information section. (Doc 34528696).
1.0	March 2021	Created the document for the Oracle Financial Services Analytical Applications Infrastructure Extension Pack Release v8.1.1.0.0.

Table of Contents

1 Preface 5

1.1 Access to Oracle Support 5
1.2 Audience 5
1.3 Additional Resources 5
1.4 Conventions Used 6
1.5 Acronyms Used 6

2 Introduction 7

2.1 Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) 7
2.2 About Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP) 7
2.3 Installation Scenario 9

3 Hardware and Software Requirements 10

4 Pre-installation Requirements 11

4.1 Download OFS AAIEP 11
4.2 Extract the Software 11

5 Install OFS AAIEP 13

5.1 Verify the Log File Information 13

6 Related Documents for OFS AAIEP Features 14

1 Preface

This section provides information about the Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP) Installation Guide.

Topics:

- Access to Oracle Support
- Audience
- Additional Resources
- Conventions Used
- Acronyms Used

1.1 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
- http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

1.2 Audience

This Installation Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

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

- OFSAAI components
- OFSAA architecture
- UNIX commands
- Database concepts
- Web server or web application server

1.3 Additional Resources

This section identifies additional resources for the OFS AAIEP application. You can access the online documentation for the OFS AAIEP 8.1.1.0.0 from the Oracle Help Center (OHC).

- OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack Release Notes
- Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP) Release Notes
- OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack Installation and Configuration Guide

- Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP) Installation and Configuration Guide
- OFS Analytical Applications Infrastructure Administration Guide

To find additional information about how Oracle Financial Services solves real business problems, see our website at www.oracle.com/financialservices.

1.4 Conventions Used

The following table lists the conventions used in this guide.

Table 1: Conventions Used in this Guide

Convention	Meaning
Italics	• Names of books, chapters, and sections as references • Emphasis
Bold	• The object of an action (menu names, field names, options, button names) in a step-by-step procedure • Commands typed at a prompt • User input
`Monospace`	• Directories and subdirectories • File names and extensions • Process names • Code sample, including keywords and variables within the text and as separate paragraphs, and user-defined program elements within the text
Hyperlink	Hyperlink type indicates the links to external websites, internal document links to sections.

1.5 Acronyms Used

The following table lists the acronyms used in this guide.

Table 2: Acronyms Used in this Guide

Acronyms	Description
OFSAA	Oracle Financial Services Analytical Applications
OFS AAI	Oracle Financial Services Analytical Applications Infrastructure
OFS AAIEP	Oracle Financial Services Analytical Applications Infrastructure Extension Pack
EP	Extension Pack
OHC	Oracle Help Center

2 Introduction

In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk-adjusted performance objectives, cultivate a risk management culture through transparency, lower the costs of compliance and regulation, and improve insight into customer behavior.

OFSAA uses industry-leading analytical methods, shared data models, and applications architecture to enable integrated risk management, performance management, customer insight, and compliance management. OFSAA actively incorporates risk into decision-making, enables to achieve a consistent view of performance, promotes a transparent risk management culture, and provides pervasive intelligence.

Oracle Financial Services Analytical Applications delivers a comprehensive, integrated suite of financial services analytical applications for both banking and insurance domains.

Topics:

- Oracle Financial Services Analytical Applications Infrastructure (OFSAAI)
- About Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP)
- Installation Scenario

2.1 Oracle Financial Services Analytical Applications Infrastructure (OFSAAI)

Oracle Financial Services Analytical Applications Infrastructure (OFSAAI) powers the Oracle Financial Services Analytical Applications family of products to perform the processing, categorizing, selection, and manipulation of data and information required to analyze, understand and report on specific performance, risk, compliance, and customer insight issues by providing a strong foundation for the entire family of Oracle Financial Services Analytical Applications across the domains of Risk, Performance, Compliance and Customer Insight.

2.2 About Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP)

The Oracle Financial Services Analytical Applications Infrastructure Extension Pack (OFS AAIEP) offers advanced features and functionalities that can be installed on top of OFSAAI. Before installing the Oracle Financial Services Analytical Applications Infrastructure Extension Pack you must install an OFSAA instance having one or more OFSAA application packs.

The Oracle Financial Services Analytical Applications Infrastructure Extension Pack includes the following advanced features and functionalities:

- Distributed Processing Capabilities
  - Supports the deployment model that separates the components that serve the UI or Interactive application components from the components that serve to compute requirements of the batch jobs.

- Enables batch processes that must be distributed over multiple nodes by running multiple activation manager (job agent).

- Analytic Pipeline and Process Models
  - Supports interleaving of automated paths or swim-lanes with Human Decisioning tasks.
  - Categorization of Pipelines

    Categorizes the pipeline types appropriately depending on the nature of tasks that are being orchestrated for the following Pipelines:

    - Workflow Pipeline
    - Run Pipeline
    - Sub-Run Pipeline
    - Business Process Pipeline

    For more information, see the **Categorization of Pipelines** section in the Oracle Financial Services Analytical Applications Infrastructure Process Modelling Framework Orchestration Guide.
  - Orchestration of Run pipeline that allows choreography of analytical jobs or Run Pipeline.
  - Workflow Pipeline that allows human decisions and automated system task choreography.
  - Analytical or Business Process Pipelines that interleave automated paths with human decision tasks. These pipelines can be interleaved with swim-lanes within a process model orchestration.

  For more information about Process Models, see the Oracle Financial Services Analytical Applications Infrastructure Process Modelling Framework Orchestration Guide.

- Attribution Analysis

  Attribution Analysis is a solution that is derived out of the PMF Application to specially address the requirements to compare runs by modifying a variable from a list of variables and analyze reports. The Oracle Financial Services Attribution Analysis is a solution that is integrated with the PMF Application to specially address the following requirements for financial institutions:

  - Compare runs by modifying a variable from a list of variables. In other words, compare the execution runs in models by varying one factor and studying the impact on other factors that are linked to it.
  - Analyze reports based on the comparison.

  For more information, see the Oracle Financial Services Attribution Analysis User Guide.

- Event-Based Orchestration

  The Consumer and Producer widgets are enabled on the PMF Canvas. This allows users to perform event-based orchestration within PMF.

  The Event Framework integrated in PMF is an event-driven messaging framework that uses Apache Kafka (messaging server) to process information asynchronously and in near realtime. Producers that are either external applications or PMF internal processes, send messages (notify about an event occurrence) to Kafka Topic(s). Consumers, that are internal processes within PMF, read the messages from Kafka Topic(s) and execute other events or activities

configured in the PMF Canvas. The framework uses the REST transfer protocol to send messages and the JSON data format to construct the messages.

For more information about the preceding features, see the Oracle Financial Services Analytical Applications Infrastructure Process Modelling Framework Orchestration Guide.

- Content Management Interoperability Services

  The Content Management Interoperability Services (CMIS) is an OASIS standard enabling information sharing between different Content Management Systems. Document management features can be configured to interface with the CMIS services to perform various operations such as document upload, download, and search. The documents are stored in the CMIS repository.

  For more information, see the **Content Management Integration** section in the Oracle Financial Services Analytical Applications Infrastructure Administration and Configuration Guide.

2.3 Installation Scenario

The Oracle Financial Services Analytical Applications Infrastructure Extension Pack can be installed on an OFSAA instance having one or more OFSAA application packs. This pack can be installed with any of the 8.1.1.x.x application packs.

3 Hardware and Software Requirements

The Oracle Financial Services Analytical Applications Infrastructure Extension Pack requires similar hardware and software requirements as Oracle Financial Services Analytical Applications (OFSAA) v8.1.1.0.0 application packs.

See the Oracle Financial Services Analytical Applications 8.1.1.0.0 Technology Matrix for the hardware and software required for OFSAAI Release 8.1.1.0.0.

4 Pre-installation Requirements

The Oracle Financial Services Analytical Applications Infrastructure Extension Pack can be installed on an OFSAA instance having one or more OFSAA application packs. This pack can be installed with any of the OFSAA 8.1.1.x.x application packs.

> **NOTE** If the OFS AAIEP license is enabled in earlier versions of OFSAA, skip the installation steps mentioned in this document.

Topics:

- Download OFS AAIEP
- Extract the Software

4.1 Download OFS AAIEP

To download the Oracle Financial Services Analytical Applications Infrastructure Extension Pack Release 8.1.1.0.0, follow these steps:

1. Log in to the Oracle Software Delivery Cloud (OSDC) with a valid Oracle account.
2. Search for **Oracle Financial Services Analytical Applications Infrastructure Extension Pack**.
3. Download the **Oracle Financial Services Analytical Applications Infrastructure Extension Pack 8.1.0.0.0** installer and copy (in Binary Mode) to the download directory that exists in the OFSAA Installation Setup.

4.2 Extract the Software

You must be logged in to the UNIX operating system as a non-root user where OFSAA is installed. To extract the software, follow these steps:

1. Download the unzip utility (OS-specific) `unzip_<os>.Z` and copy it in Binary mode to the directory that is included in your PATH variable.

   If you already have an unzip utility to extract the contents of the downloaded archive, skip this step. Uncompress the unzip installer file with the command:

   ```
   uncompress unzip_<os>.Z
   ```

   > **NOTE** If an error message "*uncompress: not found [No such file or directory]*" is displayed, contact your UNIX administrator.

2. Extract the contents of the OFS AAIEP Release 8.1.1.0.0 installer archive file in the download directory with the following command:

   ```
   unzip -a OFS_AAIE_PACK_8.1.1.0.0_GENERIC.zip
   ```

3. Navigate to the download directory and assign execute permission to the installer directory with the following command:

```
chmod -R 755 OFS_AAIE_PACK
```

5 Install OFS AAIEP

To install the Oracle Financial Services Analytical Applications Infrastructure Extension Pack, follow these steps:

1. Log in to the system where you extracted the pack.
2. Execute the UNIX user `.profile` file.
3. Navigate to the `OFS_AAIE_PACK` directory.
4. Execute the `./OFSAAI_AAI_Extn_Pack.sh` command in the console to install the pack.
5. The installer proceeds with Pre-installation Checks.

   Check if the pack is applied successfully. Contact My Oracle Support in case of any errors.
6. Restart all the OFSAAI services.
   For more information, see the Starting or Stopping Infrastructure Services section in the Oracle Financial Services Analytical Applications Infrastructure Installation & Configuration Guide 8.1.1.0.0.

Topics:

- Verify the Log File Information

5.1 Verify the Log File Information

You can verify the installation by checking the log files generated in the `OFS_AAIE_PACK/logs` directory. You can ignore the Error Code ORA-00001 in the log file.

For any other error, contact My Oracle Support.

6 Related Documents for OFS AAIEP Features

You can see the following documents to know more about the Oracle Financial Services Analytical Applications Infrastructure Extension Pack features:

- Distributed Processing Capabilities
- Analytic Pipeline and Process models
- Process Modeling Framework
- Attribution Analysis
- Event-Based Orchestration
- Content Management Interoperability Services

OFSAA Support

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

Send Us Your Comments

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- 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 the My Oracle Support site that has all the revised or recently released documents.