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Financial Services

Data Integration Application Pack

Release 8.0.5.0.0

Release Notes

February 2018

Document Versioning

Version	Date	Change Reference
8.0.5.0.0	Created: February 2018	Captured new features, fixed issues, limitations and known issues for Oracle Financial Services Data Integration Application Pack 8.0.5.0.0 release.
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Preface

This Preface provides supporting information for Oracle Financial Services Data Integration (OFS DI) Application Pack Release Notes and includes the following topics:

Overview of OFSAA

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 model 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, promote a transparent risk management culture, and provide pervasive intelligence.

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

Purpose of this Document

This document contains release information for the following products:

- Oracle Financial Services Analytical Applications Infrastructure (OFS AAI)
- Oracle Financial Services Data Integration Hub (OFS DIH)
- Oracle Financial Services Data Relationship Management (DRM) Interface
- Oracle Financial Services Oracle Flexcube Universal Banking (FCUBS) Interface
- Oracle Financial Services Oracle Banking Platform (OBP) Interface
- Oracle Financial Services Fusion Accounting Hub (FAH) Interface

Intended Audience

This document is intended for users of Oracle Financial Services Data Integration Application Pack.

Documentation Accessibility

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Access to Oracle Support

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Related Documents

This section identifies additional documents related to OFS DI Application Pack. You can access the below documents online from the documentation Library for OFS DI 8.x.

- Oracle Financial Services Data Integration (OFS DI) Application Pack 8.0.5.0.0 Installation Guide
- Oracle Financial Services Data Integration Hub User Guide Release 8.0.5.0.0
- Oracle Financial Services Data Integration Pack Extension for DRM User Guide Release 8.0.5.0.0
- Oracle Financial Services Data Integration Pack Extension for FCUBS User Guide Release 8.0.5.0.0
- Oracle Financial Services Data Integration Pack Extension for OBP User Guide Release 8.0.5.0.0
- Oracle Financial Services Data Integration Pack Extension for FAH User Guide Release 8.0.5.0.0

You can access the OFS AAI documentation online from the documentation library for OFS AAAI 8.x:

- OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack Installation and Configuration Guide v8.0.5.0.0
- OFS Analytical Applications Infrastructure User Guide v8.0.5.0.0

The additional documents are as follows:

- OFS Analytical Applications Infrastructure Security Guide
- OFSAAI FAQ Document
- OFS Analytical Applications 8.0.5.0.0 Technology Matrix

Introduction to Oracle Financial Services Data Integration Application Pack

Data Integration Hub (DIH) enables to load the data from the source systems to the OFSAA and extract from OFSAA through logical interfaces, known as Application Data Interfaces (ADI). It enables data loading and extracting to/from staging and results area. DIH provides a set of User Interfaces (UI), which is used to define and maintain External Data Descriptor (EDD), Application Data Interfaces, and also map the EDDs and ADIs through Connectors. The mappings can be one to one, one to many, many to one, and many-to-many.

Components of Oracle Financial Services Data Integration Application Pack

OFSDI Application Pack includes the following applications:

Oracle Financial Services Data Integration (OFS DI) Application pack includes Financial Services Analytical Applications Infrastructure, Financial Services Data Integration Hub application, and four prebuilt interfaces such as Oracle Banking Platform (OBP), Flexcube, Data Relationship Management (DRM), and Fusion Accounting Hub (FAH).

The Financial Services Analytical Applications Infrastructure is comprised of a set of frameworks that operates on and with the Oracle Financial Services Analytical Applications Data Model. This infrastructure delivers metadata across the stack and provides a single set of computational engines, stochastic modeling methods, and business rules. Data Integration Hub allows financial institution to source data from multiple source systems to OFSAA required for analytical processing and reporting.

- **Oracle Financial Services Analytical Applications Infrastructure**: OFSAA Infrastructure is the foundation for Oracle Financial Services Analytical Applications (OFSAA). It provides support for User Administration, Metadata Management, a Processing Framework, a Forms Framework, and additional capabilities, necessary for the individual business applications of OFSAA packs, across the domains of Risk, Performance, Compliance, and Customer Insight.
- **Oracle Financial Services Data Integration Hub**: Enables to load the data from the source systems to the OFSAA and extract data from OFSAA through logical interfaces, known as Application Data Interfaces (ADI). It enables data loading & extract to/from staging and results area. DIH provides a set of User Interfaces (UI), which is used to define and maintain External Data Descriptor (EDD), Application Data Interfaces, and also map the EDDs and ADIs through Connectors. The mappings can be one to one, one to many, and many-to-many.
- **Oracle Financial Services Data Relationship Management (DRM) Interface**: Oracle Data Relationship Management (DRM) helps proactively manage changes in master data across operational, analytical, and enterprise performance management silos. Users may make changes in their departmental perspectives while ensuring conformance to enterprise standards
- **Oracle Financial Services Oracle Flexcube Universal Banking (FCUBS) Interface**: Oracle FLEXCUBE Universal Banking (FCUBS) supports the changing landscape of retail, corporate, and investment banking needs with strong transaction banking and Islamic banking capabilities. The current FCUBS-OFSAA interfaces, transfers all key data elements across various modules within FCUBS to OFSAA Common Staging Area (CSA). The integration between the Oracle FCUBS and the OFSAA enables the financial institutions to:

- Get insight to customer patterns based on the data captured in core banking
- Achieve end-to-end improvement in business delivery
- Achieve effective performance and risk free management using the available customer data

This integration is achieved by handing off FCUBS core banking data with OFSAA through FLEXCUBE Information Server (FIS) and DIH.

- **Oracle Financial Services Oracle Banking Platform (OBP) Interface**: Oracle Business Platform (OBP) is designed to help banks respond strategically to today's business challenges and progressively transform their business models through industrialized business processes, driving productivity improvements across front and back offices, and reducing operating costs. It supports banks' growth agenda through new distribution strategies including multi-brand or white labeling to tap new markets and enterprise product origination supporting multi-product and packages to drive an increased customer-to-product ratio.
- **Oracle Financial Services Fusion Accounting Hub (FAH) Interface**: Oracle Fusion Accounting Hub (FAH) is an accounting integration platform that allows customers to integrate and standardize accounting from non-Oracle transactional systems to create accounting entries in any general ledger (for example, Fusion, E-Business Suite, PeopleSoft or other non-Oracle general ledger systems and so on).

Oracle Financial Services Data Integration Application Pack

This chapter includes the following topics:

New Features

The following are the list of enhancements incorporated in this release:

1. **Framework:**

   a. **New DIH UI**: DIH User Interface (UI) is supplemented with a modernized lightweight UI built on highly optimized and responsive client technology design patterns which allows significantly easy navigation. The new UI avoids extra roundtrips to the back-end services for seamless and fast data browsing on the client side. The application also provides multiple filtering, search and sorting options for enhanced usability.

   The new UI additionally provisions user to fire-and-forget for Refresh ADI and Refresh Target Datastore process.

   b. **Transpose (Pivot/Unpivot)**: DIH 8.0.5 enables users to transpose Rows to Columns (Pivot) and Columns to rows (Unpivot). The switching of rows and columns can enable powerful data transformations and are helpful, while looking for specific results.

   c. Data Flow Definition Mode for Connector: The new data flow definition mode in connector enables users to apply multiple combinations of transformations including aggregation, transpose, join, derivation of data elements on source datastores in a single connector in order to solve complex data mapping use cases in a simplified manner. The Data Flow definition mode allows users to drag, drop, draw, import/export UI components to create simplified visual diagram of complex data flow from source datastores to OFSAA data interface as a connector which gets translated into an ETL job in ODI by DIH.

   d. **BigData SQL Support**: DIH 8.0.5 supports the use of BIG Data SQL for loading data from Hive source system to OFSAA layer. The Big Data SQL option will be an addition to an already existing feature of using Oracle Loader for Hadoop for Hive to Oracle data movement. The user will have the flexibility to decide any of these options during definition.

   The new version also enhances data movement performance using Oracle Loader for Hadoop.

   e. Expression Validation: DIH 8.0.5 enables users to validate dynamic expressions/derivations applied to source datastores through a powerful custom validation framework. This feature helps user redress data mapping vis-à-vis SQL expressions and derivations for incorrect syntax or invalid expressions before execution and helps in saving time. The current version is also supplemented with multiple validations such as data length/precision, data type and so on.

f. **Detailed Logging/Auditing and View from DIH UI**: Auditing is now enabled for Refresh ADI and Refresh Target Datastore process. Each invocation is logged and displayed in the UI. There is an option to navigate to prior Refresh ADI/Refresh Target datastore process and view details and identify the DM changes/errors/alerts. In case of Refresh ADI, it is possible to review the alert messages in the UI and take action wherever required. It is possible to download both ongoing/completed process logs from UI.

   You can also download logs for individual connector executions from user interface.

   In addition to the above, there are provisions to track list of activities performed in the application for any given period.

g. **Copy Connector**: The copy option allows user to replicate an existing connector for any further enhancements. This feature is helpful in creating back up prior modifying connectors.

h. **Command Line Utility for Refresh Application Data Interface and Refresh Target Data Store**: DIH 8.0.5 enables user to invoke Refresh ADI and Refresh Target Datastore from command line with the help of scripts. These scripts can be used in scheduler or batch as per requirement.

i. **Parameterized Oracle Home and Data Characterset**: This enables to specify Oracle home and characterset for file to table loading. This avoids setting of static environment variables in ODI which helps in integration with other applications.

j. **Provision to use JNDI Connection to ODI**: Connect to Oracle Data Integrator (ODI) through Java Naming and Directory Interface (JNDI) data source, which is the Java API that helps to discover and look up data and objects through a name.

k. **Automated Full Installer/Upgrade**: Automated steps for installation and configuration reducing the time and effort for installation/upgrade process.

l. **Ability to Call Sequence and Database**: A sequence is an object in Oracle that is used to generate a unique number. DIH now supports sequence data object in derived column.

2. DIH Connectors:

a. **DRM Connectors**:

   - New DRM Connectors with transpose.

b. FCUBS Connectors

For detailed information on usage of these enhancements, refer to OFS DIH 8.0.5.0.0 User Guide, OFSDIH Foundation 8.0.5 Pack Extension for DRM User Guide, OFSDIH Foundation 8.0.5 Pack Extension for FAH User Guide, OFSDIH Foundation 8.0.5 Pack Extension for FCUBS User Guide and OFSDIH Foundation 8.0.5 Pack Extension for OBP User Guide on OHC Documentation Library.

How to Apply this Release?

1. Login to https://support.oracle.com/ and search for Bug# **27514041** under the Patches & Updates tab.
2. For detailed instructions on installing this release, refer OFSAA DIH Application Pack 8.0.5 Installation Guide in OHC Documentation Library.

Enhancements and Bugs Fixed in this Release

Bug ID	Comments
26843324	DUPLICATE FCUBS CONNECTORS AVAILABLE AFTER DEPLOYING THE FCUBS CONNECTORS
26765234	EXTRACT CONNECTOR - FILTERS DEFINED IN DIH ARE NOT CREATED IN ODI
26313786	FOR MULITENANT DATABASES ON HIGH AVAILABILITY ARCH ODI TO HANDLE FILE TO TABLE LOADING FOR MULTI LOCALE
25923850	DIH CONNECTORS EXECUTED IN PARALLEL CAUSE TEMPORARY OBJECT CONFLICT
25843802	TRANSPOSE FEATURE IN DIH
25768769	NEED TO RUN ADI REFRESH AND TARGET DATASTORE REFRESH USING SCRIPT
25739871	EXECUTING THE SAME CONNECTOR CONCURRENTLY WITH DIFFERENT PARAMETERS THROWS EXCEPTIONS ORA-00955/ORA-009042
25309957	BETTER PERFORMANCE IN OLH
25257899	AGGREGATION /TRANSPOSE FEATURE IN DIH
24340484	DIH MAPPINGS ARE BEING STORED BASED ON ORDER OF SOURCE TABLE
22824986	ENHANCEMENT REQUEST TO COPY A DIH CONNECTOR

Known Bugs

Bug ID	Component	Comments	Workaround
27482981	DATASTORE	TARGET DATA STORE REFRESH WORKS ONLY WITH WEB SEVERS AND NOT WITH WEBSERVICE	TRIGGER TARGET DATASTORE REFRESH BY DISABLING THE WEB SERVICE
26862607	METADATA	TEST AGENT WORKS ONLY FOR WEBSPHERE AND TOMCAT	-
27493948	ODIKM	FILE TO TABLE LOADING WORKS ONLY IF THERE IS SINGLE TARGET	IN CASE OF MULTI TARGET, FOR EACH TARGET DEFINE A SEPARATE CONNECTORS

Oracle Financial Services Analytical Applications Infrastructure

For details about the new features, bugs fixed, and list of known issues in OFS Analytical Applications Infrastructure, see OFS Advanced Analytical Applications Infrastructure (OFS AAAI) Application Pack Readme on OHC Documentation Library.

Hardware/Software Tech Stack Detail

The hardware/software combinations required for OFS DI Application Pack 8.0.5.0.0 are available at OTN Tech Stack.

Licensing Information

Information about the third party software tools used in OFS DI Application Pack 8.0.5.0.0 is available in the OFSAA Licensing Information User Manual Release 8.0.5.0.0, at the OHC Documentation Library.

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