Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting Hub

User Guide

Release 8.0.7.0.0



Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting Hub User Guide, Release 8.0.7.0.0

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ABOUT THE GUIDE

This section provides a brief description of the scope, the audience, the references, the organization of the user guide and conventions incorporated into the user guide. The topics in this section are organized as follows:

- Scope of the guide
- Intended Audience
- Prerequisites
- Documentation Accessibility
- Access to Oracle Support
- Related Information Sources

SCOPE OF THE GUIDE

This guide details the tasks that are required to performed in the OFSAA environment. The integration requires effort on the FAH system also, for activities such as setting up supporting references, creating jobs to generate accounting entries and so on.

INTENDED AUDIENCE

Welcome to release 8.0.7.0.0 of the Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting Hub User Guide. This manual is intended for the following audience:

- ETL Developers: The ETL Developers from the IT Department of the financial services institution, who do the data sourcing.
- Business Analysts: The business analysts from the IT Department of the financial services institution, who do the mapping of the tables.

PREREQUISITES

- Data Integration Hub (DIH) should be installed
- OFSAA FAH Interface should be installed
- Oracle Data Integrator environment for executing the interfaces

DOCUMENTATION ACCESSIBILITY

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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RELATED INFORMATION SOURCES

Along with this user manual, you can also refer to the following documents in <u>OHC</u> documentation Library:

- Oracle Financial Services Data Integration User Guide Release 8.0.7
- Oracle Financial Services Data Integration Application Pack Installation Guide Release 8.0.7

bhAcronyms

Acronym	Description	
DIH	Data Integration Hub	
UI	User Interface	
ODI	Oracle Data Integrator	
ADI	Application Data Interface	
KM	Knowledge Module	
EDD	External Data Descriptor	
Apps	Application	

1 Introduction

1.1 About Oracle Financial Service Analytical Applications

Oracle Financial Services Analytical Applications (OFSAA) enables financial institutions to:

- Measure and meet risk adjusted performance objectives
- Cultivate a risk management culture through transparency
- Lower the costs of compliance and regulation
- 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.

OFSAA delivers a comprehensive, integrated suite of financial services analytical applications for both banking and insurance domain. It includes many applications such as Profitability Management, Asset Liability Management, Customer Insight, and Risk Management.

1.2 About Fusion Accounting Hub

Fusion Accounting Hub (FAH) is an accounting integration and reporting platform that includes products, such as Sub ledger Accounting, Ledger, and Financial Reporting Center. FAH is an accounting integration platform. It standardizes the accounting from multiple third party transactional systems to consistently enforce accounting policies and meet multiple reporting requirements in an automated and controlled fashion. FAH includes a rules repository to centrally define and maintain accounting rules, a rules transformation engine to create, validate and store the accounting journals, and a detailed accounting repository that is used to reconcile to source system.

Oracle Fusion Accounting Hub (FAH) is an accounting integration platform that enables 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).

1.3 Objective

Integration of FAH and OFSAA provides a basis for a unified finance and risk architecture to the financial services industry. The benefits of the having an out of the box interface between FAH and OFSAA are:

- The OFSAA repository of transaction and reference information becomes a single, unified analytical repository for risk and finance.
- The integration improves consistency in risk and finance data for producing risk adjusted measures.
- OFSAA customers can take advantage of FAH rules and accounting engines to improve the efficiency and audit ability of transforming transactions from financial services systems such as deposits, loan accruals, payments, trades, and withdrawals into accounting.

- Information in the OFSAA foundation such as customer, account, product, branch, and channel information are accessible in FAH, for defining accounting treatments in addition to generating accounting balances. Conditional logic can be used to vary accounting treatments based upon values from transactions and contract balances. The same OFSAA transactions and contract balances are used by FAH to book entries and generate financial balances, which in turn are reused by OFSAA for analytical processing.
- Using FAH balances for analytical processing facilitates reconciliation of operational risk losses and accounting as prescribed by regulations such as Basel II and III. These accounting balances can be reconciled using the OFSAA Reconciliation Framework. Reconciliation rules can be defined to map FAH balances to product processor information. For example, accounting for provisions and losses can be based upon customer account balances, as provided to OFSAA and read by FAH enhancing the reliability of operational risk and provisioning measurement.

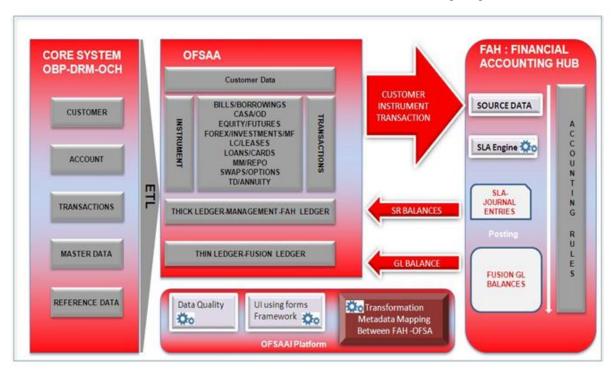
1.4 About Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting

The major components that can be leveraged from FAH are:

- Seeded accounting rules and pre-defined Accounting Templates for FAH
- Use of OFSAA API to create accounting events in FAH
- Data Integration Hub (DIH) connectors to load General Ledger and supporting reference balances into the OFSAA common staging area.

NOTE: The supported version of FAH is 11.1.9.2.0 (REL 9.2).

1.5 OFSAA-FAH Interface Architecture Overview



The OFSAA-FAH Interface Architecture is illustrated in the following diagram:

The data flow between OFSAA and FAH is bi-directional in nature. OFSAA includes all the account, contract and transaction information which FAH needs to generate for its subledger accounting. Additionally, the General Ledger and supporting reference balances are required by the various products under the OFSAA suite.

The flow from OFSAA to FAH is established through a set of event creation API's in OFSAA. These API's expect data in transaction and reference objects in concurrence with the accounting rules and template. The accounting rules and templates should be deployed in FAH by applying the seed data ARU. Refer to the installation guide in <u>OHC</u> for more details.

The flow from FAH to OFSAA is achieved through some pre-built DIH connectors. These connectors extract the GL and SR Balances from FAH and load them into OFSAA staging post which this is available for all downstream applications.

2 Mapping the OFSAA User to FAH User Groups

User-User Group Map enables you to map user(s) to specific user group which in turn is mapped to a specific Information Domain and role. Every user group mapped to the infodom should be authorized. Else, it cannot be mapped to users.

User- User Group Map screen displays fields such as **User ID**, **Name**, and the corresponding **User- User Group Map**. You can view and modify the existing mappings within the **User Group Maintenance** screen.

To access **User-User Group Map** navigate to **Identity Management**, and click **Security Management**. For details on mapping user to user groups refer to <u>OFSAAI User Guide</u> in OHC documentation library.

Seeded User Groups for OFSAA - FAH Interface

Name	Description
	User mapped to this group will have access to all the menu items for entire FAH Application.
FAH Admin	The exclusive menu's which are available only to this group users are FAH Administration
FAH Data Mapping	User mapped to this group will have access to FAH Data Mapping Menu
FAH Operator	User mapped to this group will have access to Orchestration and Execution Menu

Identity Management

OFS DIH Foundation Pack Extension for FAH User Manual

Security Management		User -	User Group I	Map		
- User Maintenance	User - User Group Map					
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- 🙀 User Group Domain Map - 🖓 User Group Role Map	User ID		Name			
🗐 Map User Group Folder Role						
- User Reinstate	» User - User Group Map				? ₹	1-7/7 11-14
System Administrator	User ID	Name				
Audit Trail Report	GUEST	Guest Login	1			
toser Profile Report	OFSAD	OFSAD				
Enable User	OFSAN	OFSAN				
	OFSDM	OFSDM				
	OFSOP	OFSOP				
	SYSADMN	System Adr				
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		FCUBS Analyst FCUBS Operator				
		FSDF Admin				
		FSDF Analyst				

OFS DIH Foundation Pack Extension for FAH User Manual

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FCUBS Admin			
FCUBS Analyst			
FCUBS Operator	1		
FSDF Admin			
FSDF Analyst			
FSDF Data Modeler			
FSDF Operator	-		
	ок	Close	

3 Logging into FAH-OFSAA Interface

Access the FAH-OFSAA Interface using your login credentials (User ID and password). The builtin security system ensures that you are permitted to access the window and actions based on the authorization only.



After logging into the application, select *Interface for Oracle Fusion Accounting Hub* from the applications drop-down list.

Note: You should be mapped at least any one of the FAH user groups in order to get the application in the drop down.

	ons	
Applications Object Administration System Configuration & Identity Management Select Applications Financial Services Data Integration Hub	My Inbox	
Q Financial Services Data Foundation Financial Services Data Integration Hub Interface for Oracle Flexcube Universal Banking System Interface for Oracle Banking Platform	Data Integration Hub Administration Administration Data Mapping Data Mapping	Application Data Interface Application Data Interface Orchestration Orchestration
Interface for Oracle Data Relationship Management Interface for Oracle Fusion Accounting Hub	Refresh	
N		

The FAH-OFSAA landing page is displayed below.

Applications Bystem Configuration & Identity Management My Index Select Applications Interface for Oracle Fusion Accounting Hub Interface for Oracle Fusion Accounting Hub Interface for Oracle Fusion Accounting Hub Imateriace for Oracle Fusion Accounting Hub Image for Oracle Fusion Accountin
Image: Search Scheduler Image: Search Scheduler Image: Search Montor

4 Component Details

The components included in this interface are:

- Predefined Accounting Rules and Templates
- OFSAA API's for creating accounting events
- DIH Connectors

4.1 Predefined Accounting Rules and Templates

This section details the predefined accounting rules and templates.

4.1.1 Accounting Rules

The accounting rules are based on the instruments available in OFSAA. The instruments are categorized based on the types of FAH users and configurations. The below sub-ledger applications are enabled for this integration:

- Retail Banking
- Commercial Banking
- Investment Banking
- Treasury
- Islamic Banking

The list of product processors covered under each subledger Application is provided in the file <u>SLA</u> <u>Coverage</u>.

Each instrument, such as loans, checking and savings accounts, is represented by an event class. For each event class, there are predefined accounting events based upon expected activities for the instrument.

There are two types of accounting templates for each event class. The first type is based upon transactions. This indicates that FAH receives transaction information which is not pre-formatted for accounting. There are no debits or credits. The second type is based upon pass through accounting entries. There are debits and credits from the source system. The rules vary based on the templates used.

The OFSAA data model is registered with FAH. The attributes of the transactions, pass through entries, and product processors are used by the templates. They are also available for creating new rules configurations to tailor accounting treatments.

There are templates available for each type of FAH accounting rule, such as journal line rules and account rules. They can be used directly or copied to create new rules that can be modified. Additionally, you can create new rules that do not use the templates, but are based upon the OFSAA attributes registered in FAH.

4.1.2 Accounting Templates

An example of the structure for accounting templates for OFSAA integration is illustrated below:

Sub Ledger	Retail Banking			Investment Banking			
Product Used	Checking & Saving A/C		Loans		Checkir Saving	_	Loans
Event Classes	Transactions/Passthrough		Transactions/Passthrough				
Event Types	Deposits	Withd	rawal	Servicing	Buyer Settl	ement	Seller Settlement
Accounting Rules	Cash Debit Fees Credit			Produ Chanı			Loans Debit nterest Credit

The retail banking sub-ledger application has two process categories, such as checking and savings accounts and loans. Each of these process categories has two event classes, such as transactions and pass through entries. You can use either or both of these, based upon the nature of the information received by FAH. Such process categories are provided for every instrument included in the integration.

Various event types are registered for each of the event classes. For checking and savings accounts, event types include deposits, withdrawals, and servicing. For loans, event types include originations, payments, and closings. For each event class, there are collections of rule templates that predefine accounting treatment. In this example, cash debit and fees credits are journal line rules for checking and savings accounts. Other rules components, such as descriptions and account rules may be used by different event classes.

Supporting references, which provide the ability to create accounting balances at a more detailed level than is provided by the general ledger chart of accounts, are available across all the subledger applications provided for the integration. These can be associated with journal line rules as desired. Product and channel are examples of potential supporting references.

4.2 API from OFSAA for Creating Accounting Events

OFSAA can create the accounting events for each event class/sub ledger application either one event at a time or in bulk mode. The pre-requisite for this process is the availability of data in corresponding header and line tables. Depending on event class and the execution mode, the correct procedure should be triggered with the necessary input parameters to create the accounting process. Additionally, you can perform bulk event processing at a sub-ledger application level rather than an entity type level.

4.3 DIH Connectors

The DIH connectors to load ledger and supporting reference balances into OFSAA are created as part of the interface installer. These connectors have pre-built mappings between FAH source views for GL/SR balances and OFSAA staging entities meant to store ledger data.

The following views are provided by FAH for GL and SR balances:

View Name	Purpose
GL_OFSAA_BALANCES_V	FAH GL balances view
GL_OFSAA_LEDGER_COA_V	FAH GL balances supplemental information
XLA_OFSAA_BALANCES_V	FAH SR balances view. Additionally, it contains supplemental information.
GL_OFSAA_BALANCES_DELTA_V	Incremental balances

The two connectors to be deployed are:

- **Con_Fah_GI_Balances:** Connector to load thin ledger balances into STG_GL_DATA table in OFSAA. This connector accepts the below input parameters:
 - FIC_MIS_DATE
 - Period Name
- **Con_Fah_Sr_Balances**: Connector to load thick ledger/supporting reference balances into STG_MANAGEMENT_LEDGER tables in OFSAA. This connector accepts the below input parameters:
 - FIC_MIS_DATE
 - Period Name

Note: OFSAA can extract data from a single FAH ledger at a time. This is determined by the value entered setup_master table. Refer to section Setup Master Configuration section for details.

5 Implementation

This chapter includes:

- Background
- Transaction and Object Population
- Setup Master Configuration
- Accounting Event Creation

5.1 Background

Transaction objects in FAH are tables or views defined for each event class, capturing source transaction data for accounting events. The create accounting process gets the source transaction data from the transaction objects to generate journal entries. Creation of transaction objects is performed as part of the interface installer. There are different types of transaction objects, indicating whether they are used at the header or line level.

Header sources have the same value for all transaction lines or distributions associated with an accounting event. These sources are associated with a transaction header or with transaction reference data. Line sources have values that can vary by the transaction lines or distributions associated with an accounting event. They must be stored in the transaction objects at the line level. List of transaction objects and reference views defined as part of this integration are mentioned in the file <u>OFSAA Transaction and Reference Views</u>.

Two separate header tables, such as one for each flow type have been introduced in OFSAA staging area for defining header and line sources in FAH:

- Stage Transaction Header (STG_TXN_HEADER) for event based accounting
- Stage Accounting Entries Header (STG_ACCT_ENTRIES_HEADER) for pass through accounting

Accounting event program in OFSAA scans through all the unprocessed records for a particular accounting date in the header tables and creates accounting events in FAH by calling its event creation API's. This API call creates an entry in xla_events table in the FUSION schema. This is further processed by FAH to generate journal entries and post these entries to General Ledger module in FAH.

5.2 Transaction Object population

Transaction objects should be populated before processing of the accounting events occurs in FAH. Else, the source transaction information will be unavailable to generate the journal entries for the events. Both the header and line tables should be populated as per specification of the accounting rules to ensure accounting events are processed correctly in FAH.

Depending on the flow that the you chooses to implement, populate the corresponding header and line tables. You can map multiple transaction lines to an accounting event by grouping these individual lines into a header record and mapping the header record to the transaction event.

For example, withdrawal of cash from a checking and savings accounts could result in a withdrawal fee being collected from the customer account. In case of Event based accounting, "Withdrawal " would be the event and the individual transaction lines. This indicates that cash withdrawal and withdrawal fee would be populated in the line table, such as STG_CASA_TXNS. Capture the line number in column N_LINE_ID present in all transaction tables.

Additionally, map the individual transaction record to a column named V_TXN_MNEMONIC_CODE in the line table as per the list of values specified in the below excel sheet. These mnemonic codes are used in the Journal Entry Rules set definition.

A key exercise during implementation will be mapping of transaction type as defined in the source system to the appropriate mnemonic codes. Accounting rules and templates should be enhanced to accommodate the outliers. The list of Mnemonic codes configured against the various journal lines are mentioned in the file <u>Mnemonic Code Usage in Journal Line</u>.

Group these lines under a single header record through column V_HEADER_ID and populate the grouped record in the STG_TXN_HEADER table. The header table in column V_EVENT_TYPE stores the event information.

The header record also requires additional information to map the accounting event to the event class (Product processor) and to the subledger application to enable processing of accounting event in FAH as per the OOTB accounting template. Data for the former is captured in the column V_FAH_ENTITY_TYPE_CODE and for the latter is captured in the column V_SUBLEDGER_APP_CODE.

List of event types configured under each event class and for a sub-ledger application is mentioned in the file <u>Event to Journal Line Mapping</u>.

Refer to the file <u>LOVs Header Tablekey columns</u> for populating columns V_EVENT_TYPE, V_FAH_ENTITY_TYPE_CODE and V_SUBLEDGER_APP_CODE in the header tables. Depending on the event class, populate the exact values in these columns for FAH accounting templates to function as per expectation.

5.3 Setup Master Configuration

Configure the metadata attributes Ledger ID, Ledger Name in the Setup Master Table before execution of create accounting event API's.

V_COMPONENT_CODE	V_COMPONENT_DESC	V_COMPONENT_VALUE
FAH_LEDGER_ID	PRE CONFIGURED FAH LEDGER ID	<provide id="" ledger="" valid=""></provide>
FAH_LEDGER_NAME	PRE CONFIGURED FAH LEDGER NAME	<provide ledger="" name="" valid=""></provide>
FAH_GL_ACCT_COMB_REF	PRE CONFIGURED	<provide combination="" id="" valid=""></provide>
	FAH_GL_ACCT_COMB_REF	

Note: gl_ledgers and gl_code_combinations table in FUSION schema can be queried for the above values.

5.4 Accounting Event Creation

The Data Transformations (Wrapper Procedures) are integrated with post load changes framework in FAH user interface. There are two wrapper procedures each for Transactional and Pass through accounting. There are two seeded batches which will execute the DTs accordingly.

Flow Type	Data Tranformation & Batch Name	Procedure Signature
Event based Accounting	DT : fn_fah_tran_event_gen Batch : <infodom>_FAH_EVENT_AC C_FLOW</infodom>	fn_fah_tran_event_gen(p_batch_run_id VARCHAR2, p_as_of_date VARCHAR2, p_execution_mode VARCHAR2, p_application_name VARCHAR2, p_entity_type VARCHAR2)
Pass through Accounting	DT : fn_fah_passthru_event_gen Batch: <infodom>_FAH_PASSTHRU _ACC_FLOW</infodom>	fn_fah_passthru_event_gen(p_batch_run_id VARCHAR2, p_as_of_date VARCHAR2, p_execution_mode VARCHAR2, p_application_name VARCHAR2, p_entity_type VARCHAR2)

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	Upload Status	No					
	File Path	Browse					
	(jpg, png, git, ver	0					
			Finish Res	et.			

Financ	cial Services Analytical Application	15				User: OFS
ORACLE						
C Data Management Tools © Transformations - Tool Data Management Tools - Tool Data Management - To		Transformation	Insert Transformation Street Transformation Street Procedure External Library	Imput Parameters	ator	
• Pop_Load_Run_Map						
	» Parameter Definition			1		6 6 6
			Parameter Name	Data Type	Default Value	
			p_execution_mode	Varchar2	null	
			p_application_name	Varchar2	null	
			p_entity_type	Varchar2	null	
	* Stored Procedure Editor					0.e
	File Path	Browse				
	WHEN NULL THEN doms_soluto_pt_pt_ ELSE EURO(2); END CASE: END	date " p_as_of_date); ion_mode " p_execution_mode); tion_name " p_application_name);	na, dan -> ta , watar (y, as, a' , dan), a , sapina	n, jil v "application, jil, p., ently "type p., ently "type),		-
	» Business Process Flow					1
	Upload Status	No				
	File Path	Browse				
	(.jpj	j, png, gif, vsd)				
			Bajsh Res	-		

The parameter for above wrapper functions needs to provided as per below table.

Parameter Name	User Input Required	Format	Valid Values
p_batch_run_id	No		
p_as_of_date	No	YYYYMMDD	FIC_MIS_DATE
p_execution_mode	Yes		'SINGULAR' , 'BULK'
p_application_name	Yes		'RETAILBANKING'
			'COMMERCIALBANKING'
			'INVESTMENTBANKING'
			'ISLAMICBANKING'
			'TREASURY'
p_entity_type	Optional		<valid entity="" types=""></valid>

While generating events for 'Create Accounting', considerable level of logging is done in the table fsi_message_log. You can query this table in case of any failures in event generation process.

These API's evenutally create event records in FAH database schema in a table xla_events table. Events in this table are taken up for processing by submitting a job named "Create Accounting" in FAH. Some input to be provided while submitting this job is shown below.

Process Details	
	Process Options Advanced Sub <u>m</u> it <u>C</u> ancel
Name Create Accounting Description Creates subledger journ Schedule As soon as possible	al entries. Notify me when this process ends Submission Notes
Parameters	
* Subledger Application	Retail Banking
	OFSAA Testing US
Process Category	Checking and Savings
* End Date	7/14/15
* Accounting Mode	Final
* Process Events	All
* Report Style	Detail
* Transfer to General Ledger	Yes 💌
* Post in General Ledger	Yes 💌
Journal Batch	
* Include User Transaction Identifiers	Yes 💌

On successful processing, accounting entries are generated and posted to ledger module in FAH which inturn update the balances in the views exposed by FAH for this integration.

FAH provides thick and thin ledger balances via database views on its native schema and the data from these views are loaded into OFSAA staging table through DIH. Supporting Reference balances (thick ledger) are loaded in STG_MANAGEMENT_LEDGER and General Ledger Balances (thin ledger) are loaded in STG_GL_DATA.

6 Prerequisites for Deploying OFSAA-FAH Connectors

The deployment process requires certain actions to be performed prior to starting the interface Deployment. Ensure that these requirements are met before starting the installation.

Deployment of FAH Interface requires multiple steps to be executed either by FAH admin or by OFSAA admin. The steps are mentioned below, and should be followed in sequential manner.

6.1 Applying ARUs/Patches on FAH Environment

- Fusion Accounting Hub Schema (FUSION Schema) and OFSAA Atomic Schema, both should exist on the same Oracle database as two separate schemas.
- The ARU's/patches associated with the below mention bug needs to be downloaded and applied in the FAH environment before proceeding with the interface installation

Bug ID	Description
20801168	REL92: OFSAA: FAH INTEGRATION BACKPORT FOR 17954083
20801172	REL92: OFSAA:ALLOW TXN/REF OBJECTS AND TXN VIEW TO BE IN OTHER
20801186	REL92:BACKPORT:ACCOUNTING HOOKS FOR OFSAA
20829957	REL9.2: NEW VIEW FOR OFSAA/FAH INTEGRATION
20830303	REL9.2: OFSAA INTEGRATION CHANGES

6.2 Installing OFSAA Components in FAH Fusion Schema

The below mentioned file need to executed by FAH database admin in the FUSION schema for this integration to work

• Pre_Interface_Install_Scripts_fusion.sql

The above scripts can be download from the Oracle support site using the below Bug reference

Bug ID	Description
21074954	OFSAA SCRIPTS TO CREATE REQUIRED OBJECTS AND GRANTS IN FUSION
	SCHEMA

Run the below script to create OFSAA objects in Fusion schema and provide necessary grants on required fusion objects to ofsaa atomic schema.

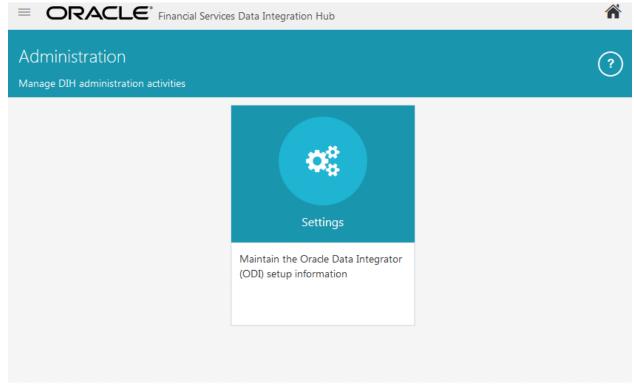
** Input ofsaa atomic schema user name when prompted for value of "atomic_schema_user"

```
$ sqlplus fusion/<password>@<oracle sid>
sql>@"Pre_Interface_Install_Scripts_fusion.sql"
```

6.3 Additional DIH Configurations for FAH Interface

Follow the below steps:

- 1. Complete the ODI settings using **Settings** option in **DIH Application Administration** menu before deploying the interface.
- 2. Click Settings in Administration screen.



The ODI settings screen is displayed. Update the setting information correctly before proceeding to the deployment of FAH interface connectors.

Settings Menu	Values Required	Example
ODI User	User Name used for Login to ODI	SUPERVISOR
ODI Password	ODI Password for the ODI user to login	odipassword
Master Repository DB User	Master Repositorty DB Schema User Name created for ODI	DIHDEV_ODI_REPO
Master Repository DB Password	Master Repositorty DB Schema Password	dbpassword
Master DB Driver	Oracle Driver (Use the Default)	oracle.jdbc.OracleDriver
Master DB Connection	Oracle Database JDBC URL	jdbc:oracle:thin:@10.184.135.6:1521:DI HDB
Work Repository	Repository used inside ODI	DIHREP

3. A source named FAH_STAGE_SRC is present in External Data Store under DIH Application. Select the entry FAH_STAGE_SRC to Edit.

ORACLE [*] Financial Services Data Integration Hub				ñ
External Data Store Define and maintain the External Data Store information				?
	FAH_STAGE_SRC	٩		
FAH_STAGE_SRC Description: Staging Source for Diracle Fusion Accounting Hub Status: Sevel	Type: ORACLE DB File Location: null DB Connection: jdb.coracle:thinu@OFSAAD8IPPORTISID	Last Modified By: OFA0 Last Modified Date: 2015-01-22 1025/020	00	÷

 Provide the details of OFSAA Atomic schema. Source wrapper views required for this integration will be created in the OFSAA atomic schema. Refer to <u>DIH User Manual</u> for more details on External Data Store File settings.

•
IC

5. Navigate to DIH Application, click Menu.

ORACLE [*] Financial Services Data Integration Hub				
Administration	Data Integration Hub			
Application Data Interface	Data Integration Hub (DIH) enables to load			
Data Mapping				
Execution				

- 6. Click Application Data Interface.
- 7. On the RHS click Refresh ADI.

8. Click **Start** Start icon. This refreshes all the Application Data Interfaces, and creates the Application Data Interfaces for all the staging tables present in the model which is being uploaded in the same Infodom.

Refresh A Retreive and u	ADI Ipdate ADI from uploade	d data model			?
0	Run ID: 100	Start Time: 2018-01-02 16:43:33.938	Infodom: FSDFINFO	End Time: 2018-01-02 17:45:20.103	Status: Successful

- 9. Navigate to **DIH Application**, click **Menu**.
- 10. Click Application Data Interface.
- 11. On the RHS click Target Datastore Refresh.
- 12. Click on **Start** 🐨 icon. This refreshes all available target data stores.

					(?
Create and	update underlying physical ta	bles of every available ADI as data store in ODI			
					↔ 🞯 🖡
0	Run ID: 100	Start Time: 2018-01-02 18:33:25.061	Infodom: FSDFINFO	End Time: 2018-01-02 19:02:52.787	Status: Successful 📩

Note: Refer to <u>DIH user manual</u> to obtain detailed information for any of the steps mentioned above.

7 Deploying OFSAA-FAH Connectors Using Refresh FAH Interface Menu

After the pre-requisites are complete, you can deploy the FAH connectors that map the multiple file EDD's to the corresponding ADI's, by using **Refresh FAH Interface** menu. This creates the corresponding External Data Descriptor and Connectors inside **Data Mapping** Menu of the FAH Interface.

- 1. Navigate to the FAH application interface.
- 2. Select Administration, and click Refresh FAH Interface.

Applications Object Administration Select Applications Interface for Oracle Fusion Accounting Hub Tetrate for Oracle Fusion Accounting Hub FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Data Mapping Connectors Fortunation Post Load Changes Fortunation Fation FAH Interface Fortunation Fation FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH Administration FAH		ons
	Select Applications Interface for Oracle Fusion Accounting Hub	Interface for Oracle Fusion Accounting Hub > FAH Administration FAH Administration FAH Administration FAH Administration Refresh FAH Interface

- 3. Select the **Source Application Version** (FAH Version 9.2.0) from the drop-down menu.
- 4. Click Deploy Selected Version

		cial Services Analytical Applicat	ions					
Applications	Object Administration	System Configuration & Identity Management	My Inbox					
Select Appli	cations		Interface for Oracle Fusion Accounting Hub > FAH Administration > Refresh FAH Interface					
Interface for	Oracle Fusion Accountin	g Hub 🔻		OFSAA - FAH Interface Refresh				
🔺 📸 Interfa	ice for Oracle Fusion Ac	counting Hub	Source Application De	fails				
🔺 🗓 F#	H Administration		Source Applicaton Name:	Oracle Fusion Accounting Hub				
Refresh FAH Interface			Source Applicaton Version	9200				
A FAH Data Mapping								
	External Data Descripto	r		Deploy Selected Version Undeploy All				
	Connectors							
	ita Management Tools							
	Post Load Changes							
	chestration Batch Maintenance							
⊿ 🕵 E>								
	Batch Execution							
	Batch Scheduler							
	Batch Monitor							
	View Log							
		-						

5. A message "Are you sure you want to Deploy the Selected Version?" is displayed. Click Yes to proceed.

OFS DIH Foundation Pack Extension for FAH User Manual

ORACLE [®] Financial Services Analytical Applicati						
Select Applications Interface for Oracle Fusion Accounting Hub	Interface for Oracle Fusion Accounting Hub > FAH Administration > Refresh FAH Interface OFSAA - FAH Interface Refresh Source Application Name: Source Application Name: Source Application Version: 92.00					
 Image: Second Sec	Deploy Selected Version Undeploy All Image: Comparison of the selection of the	-				
 ▲ Execution Catch Execution Batch Scheduler Batch Monitor View Log 	Are you sure you want to Deploy the Selected Version?					

After the deployment is complete, the "Deployment Successful" message is displayed.

ect Applications	
	Interface for Oracle Fusion Accounting Hub > FAH Administration > Refresh FAH Interface
	V OFSAA - FAH Interface Refresh
Interface for Oracle Fusion Accounting Hub	Source Application Details
FAH Administration	Source Applicaton Name: Oracle Fusion Accounting Hub
Refresh FAH Interface	Source Applicaton Version: 9.2.0.0
FAH Data Mapping	Deploy Selected Version Undeploy All
External Data Descriptor	Deploy Selected Version Undeploy All
Connectors	
Gata Management Tools	
Post Load Changes	
Orchestration	
Batch Maintenance	Pinformation [12501] Webpage Dialog
Execution	
Batch Execution	
Batch Execution	
Batch Execution ® Batch Scheduler ® Batch Monitor	1 Deployment Successful
Batch Execution	1 Deployment Successful
Eatch Execution Batch Scheduler Batch Monitor	
Batch Execution Batch Scheduler Batch Monitor	1 Deployment Successful

6. Navigate to **External Data Descriptor** and **Connectors** under **FAH Data Mapping** for checking the deployed EDDs, Connectors and the Mappings.

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		cial Services Analytic	al Applicatio	ons		-				🛗 ▼ 👗 ▼ US-Englis	sh ▼ │ OFSAD
pplications	Object Administration	System Configuration & Identi	ty Management	My Inbox							
Select Applications Interface for Oracle Fusion Accounting Hub > FAH Data Mapping > External Data Descriptor											
Interface for Oracle Fusion Accounting Hub EAH Administration			* Search				External Data Descri	ptor		As of Dat	te: 08/08/2014
	H Data Mapping	_	External Data	Store Name			~	Name			
External Data Descriptor Connectors				Data Descriptor	Description		External Data Store Name	External Data Store Type	Z	1 - 2 / 2 C S Jur	
B Data Management Tools			OFSAA_WRAP_GL_BAL FAH Custom view for		w for GL Balances	FAH_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:		
Crchestration Recution			OFSAA_WRAP_GL_BAL FAIL Custom view for GL balances OFSAA_WRAP_SR_BAL FAIL Custom view for Supporting Refer				ORACLE DB	Saved	07/13/2015 19:03:	00 DIHUSER	

FAH External Data Descriptor

	É	i ▼ 👗 ▼ US-Engl	ish ▼ │ OFS#	ND 🔻				
Applications Object Administration System Configuration & Ident	y Management My Inbox							
Select Applications Interface for Oracle Fusion Accounting Hub	Interface for Oracle Fusion Accounting Hub > FAH Data Mapping > Connectors							
A Plinterface for Oracle Fusion Accounting Hub			Connectors			As of D	ate: 08/08/2014	ŧ
FAH Administration	* Search						6 🖸	
A 🛱 FAH Data Mapping	Name							
External Data Descriptor	* Connectors				Z @ 00 ₹	1 - 2 / 2 🔍 🔿 🕞 Ji		
B Data Management Tools	-		EDD OFSAA_WRAP_GL_BAL	External Data Store Name FAH_STAGE_SRC	Status Saved	Last Modified Date 07/13/2015 19:03:00		By W
Crchestration Security		nnector to load Supporting References		FAH_STAGE_SRC	Saved	07/13/2015 19:03:00		w

FAH Connectors

8 Post Deployment Configuration for FAH Interface

After the deployment is complete, perform the following activities on Fusion Accounting Hub Fusion schema.

1. Create synonyms for OFSAA transaction and reference objects in FUSION schema

Execute the below script to create synonyms in Fusion schema. You can download the script from from Oracle support site using the below mentioned bug number

L	Description				
CREATE	REQUIRED	OBJECTS	AND	GRANTS	IN
CRIPTS TO CHEMA					CRIPTS TO CREATE REQUIRED OBJECTS AND GRANTS CHEMA

```
$ sqlplus fusion/<password>@<oracle sid>
```

sql>@"Post_Interface_Install_Scripts_fusion.sql"

2. Import OFSAA seed data into FAH

This step is optional and is required only if you need to leverage the out of box seed data accounting rules and templates to post journal entries to Fusion Ledger.

The seed data ARU can be downloaded from Oracle Support site using the below mentioned bug Reference number.

Bug Reference	Description
21270802	SEED DATA STUB ARU FOR OFSAA-FAH INTEGRATION

9 Undeploying OFSAA-FAH Connectors Using Refresh FAH Interface Menu

You can use the **Undeploy All** button to undeploy the connectors. Use the undeploying feature in the following scenarios.

9.1 Deploying Upgraded Source Version

If there is an upgraded source application (FAH) available, you can undeploy the existing version of the connector, and redeploy the same by selecting the available upgraded source version. The current available source version for FAH connector supports FAH version 9.2.0.

NOTE: You can deploy only one source version at a time. You need to upgrade the source, undeploy the version and deploy the required version.

9.2 Changes in ODI / External Data Store Settings

If there is a change in the ODI/ External Data Store settings, then you can undeploy the connectors. Modify the settings and redeploy to obtain the latest connector settings.

NOTE: You cannot undeploy the connectors if any of the Connector/External Data Descriptor is in published mode. Unpublish all the Connector/External Data Descriptor before proceeding with undeployment.

Follow the below steps to undeploy:

1. Click Undeploy All to undeploy the Connector version.

ORACLE [*] Financial Services Analytical Applicat	ions	
Applications Object Administration System Configuration & Identity Management	My Inbox	
Applications Object Administration System Configuration & Identity Management Select Applications Interface for Oracle Fusion Accounting Hub		Oracle Fusion Accounting Hub Oracle Fusion Accounting Hub

2. A message "Are you sure you want to Undeploy All?" is displayed. Click Yes to proceed.

OFS DIH Foundation Pack Extension for FAH User Manual

Applications Object Administration System Configuration & Identity Management My Inbox Select Applications Interface for Oracle Fusion Accounting Hub > FAH Administration > Refresh FAH Interface
Select Applications Interface for Oracle Fusion Accounting Hub > FAH Administration > Refresh FAH Interface
Interface for Oracle Fusion Accounting Hub
OFSAA - FAH Interface Refresh
A Dinterface for Oracle Fusion Accounting Hub Source Application Details A Dinterface for Oracle Fusion Accounting Hub Source Application Name: Oracle Fusion Accounting Hub
Refresh FAH Interface Source Application Version: Image: Source Application Version:
Cher Loss mapping Central Data Descriptor Deptoy Selected Version Undeptoy All
Reconnectors
A Cata Management Tools
🛱 Post Load Changes
A 🔞 Orchestration
B Batch Maintenance
A 🔀 Execution
Batch Execution
🐯 Batch Scheduler
Batch Monitor Are you sure you want to Undeptoy AI?
View Log

3. After the undeployment is complete, the "Successfully Deployed All" message is displayed.

ons						
My Inbox						
Interface for Oracle Fusion Accounting Hub > FAH Administration > Refresh FAH Interface						
	OFSAA - FAH Interface Refresh					
Source Application Details						
Source Applicaton Name: Oracle Fusion Accounting Hub						
Source Applicaton Version:						
	formation [12511] Webpage Dialog formation [12511] Webpage Dialog Successfully Undeployed All Ok					
	My Inbox Interface for Oracle Fusion Ac Source Application Details Source Application Name: Source Application Version:					

10 GL and SR Balance Extraction using FAH Connectors

This chapter includes:

- Metadata Configuration
- Enable Delta Balance Extraction
- Refresh Wrapper Views
- Execute DIH Connectors

10.1 Metadata Configuration

This section details the metadata configuration.

10.1.1 Chart of Account to OFSAA Dimension Mapping

FAH requires customers to map Chart of Accounts segments to OFSAA attributes. These mappings are used to pull the data in OFSAA staging area during FAH interface execution.

The COA segments need to be mapped to OFSAA attributes in STG_GL_DATA table. Ensure that all the active segments in the view GL_OFSAA_LEDGER_COA_V are mapped for the specific OFSAA dimension. FAH accommodates up to 30 segment in the COA definition.

Currently, this mapping is partially seeded in a table named FSI_FAH_COA_OFSAA_ATTR_MAP in the OFSAA atomic schema.

Sample entries assuming that COA structure is made up of 3 segments namely Legal Entity, Business Unit and Account as mentioned in the below table.

COA_SEGMENT_NAME	FAH_ATTRIBUTE	OFSAA_COLUMN_NAME	
COA_SEGMENT1_NAME	Legal Entity	v_lv_code	
COA_SEGMENT2_NAME	Business Unit	s Unit v_org_unit_code	
COA_SEGMENT3_NAME	Account	v_gl_code	

NOTE: If a particular segment in COA structure in FAH is unavailable in STG_GL_DATA table, you need to customize the table along with the corresponding DIH connector.

10.1.2 Supporting Ref Codes to OFSAA Dimension Mapping

Map the supporting ref codes to attributes in STG_MANAGEMENT_LEDGER table. Ensure that all the active supporting references in the view XLA_OFSAA_BALANCES_V are mapped for the specific OFSAA dimension. FAH accommodates up to 30 supporting references in addition to the 30 segments.

This mapping is currently stored in a table named FSI_FAH_SR_OFSAA_ATTR_MAP

Sample mapping provided in the below table assumes that the 3 additional supporting references have been configured, such as Account Number, Customer Reference and Customer Type.

SUP_REF_CODE	FAH_ATTRIBUTE	OFSAA_COLUMN_NAME	
SUP_REF_CODE1	Account Number	v_account_number	
SUP_REF_CODE2	Customer Reference	v_cust_ref_code	
SUP_REF_CODE3	Customer Type	v_cust_type	

10.2 Enable Delta balance extraction

In order to enable extraction of balances incrementally and multiple during a business day, FAH provides the incremental movements in a separate view. This delta balance tracking mechanism is available for a combination of ledger/period in FAH. This needs to be turned on by updating columns LEDGER_ID and PERIOD_NAME in a table named GL_TRACK_DELTA_BALANCES located in the FUSION schema. Sample insert statement is as follows

The source view GL_OFSAA_BALANCES_DELTA_V will be refreshed with the delta balances after the accounting process submission. The delta balances are loaded into OFSAA in a processing table FSI_FAH_LEDGER_DELTA_BAL by executing the below procedure.

Procedure Name	Execution Mode	Procedure Signature
pop_fah_delta_bal.	Bulk Only	PROCEDURE pop_delta_bal(
pop_delta_bal		v_fic_mis_Date DATE,
		v_period_name VARCHAR2,
		v_ledger_name VARCHAR2)

NOTE: A Data Transformation named fn_fah_pop_delta_bal has also been provided in "Post Load Changes" menu of OFSAA FAH user interface. Also there is one seeded batch <INFODOM>_POP_FAH_DELTA_BALANCE which can be used for executing the above procedure.

				Connected
» Transformation Process Flow				(Z)
on		Insert Transformation		
	Transformation	& Update Transformation	Parameters 2% Expression Generator	
	-			
		Stored Procedure		
		External Library		
» Parameter Definition				G
		Parameter Name		Default Value
		p_period_name		null
-		p_ledger_name	Varchar2	null
» Stored Procedure Editor				
File Path	Browse			
CREATE OR REFLACE FUNCTION IS, fast you, deta, bair Ryberd, pure VARCHAR2, P, Bair, C, date: VARCHAR2, P, Bair, C, date: VARCHAR2, P, Bair, C, date: VARCHAR2, P, Bair, C, date: VARCHAR2, RETURN NUMERE REFUNCTION INVERSE REFUNCTION INVERSE	ale +HD_dele()_as_of_dels_^^^^^^^/MINDO'), cuting Procedure In_fait_page_dels_bel (beginni);			
» Business Process Flow				
	No			
Upload Status				
Upload Status File Path	Browse			

Sample insert statement for reference is given below:

```
INSERT
INTO GL_TRACK_DELTA_BALANCES
               (
                LEDGER ID,
                PROGRAM CODE,
               , PERIOD NAME
               ,ACTUAL FLAG
               ,EXTRACT LEVEL CODE
               , CURRENCY TYPE CODE
               ,ENABLED FLAG
               ,LAST_UPDATE_DATE
               ,LAST UPDATED BY
               , CREATION DATE
               , CREATED BY
               ,LAST UPDATE LOGIN
               , OBJECT VERSION NUMBER
               )
               VALUES
               (
                <<Replace with Ledger_ID as per FAH>>
               ,'FEM'
               ,<<Replace with Period Name as per FAH>>
               ,'A'
               ,'DTL'
               ,'B'
               ,'Y'
               ,systimestamp
               ,USER
               ,systimestamp
               ,USER
               ,USER
               ,1
                      );
```

10.3 Refresh Wrapper Views

The GL and SR balances views of FAH have wrappers written in OFSAA schema which refer to the metadata for created above for COA and SR segments. These wrapper views are configured as EDD's within DIH connector definition.

Execute the below PI/SQL block in OFSAA atomic schema to accomplish this:

```
SET serveroutput ON;
BEGIN
ofsaa_vw_create_util.fah_ofsaa_cr_gl_view(); ---- to refresh wrapper view
for GL balance extraction
ofsaa_vw_create_util.fah_ofsaa_cr_sr_view(); ---- to refresh wrapper view
for SR balance extraction
```

END;

```
NOTE: Refresh these views manually whenever there is a change in metadata mappings in tables FSI_FAH_COA_OFSAA_ATTR_MAP and FSI_FAH_SR_OFSAA_ATTR_MAP
```

10.4 Executing FAH Connectors

To extract GL balances from FAH after performing the steps mentioned above, publish and execute connector **Con_Fah_GI_Balances.**

To extract GL balances from FAH after performing the steps mentioned above, publish and execute connector **Con_Fah_Sr_Balances.**

Refer to the DIH User Guide for more information on publishing and executing DIH connectors.



Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Fusion Accounting Hub User Manual

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