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

User Guide

Release 8.0.6.0.0



Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Accounting Hub Cloud Cloud User Guide, Release 8.0.6.0.0

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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 AH system also, for activities such as setting up supporting references, creating jobs to generate accounting entries and so on.

INTENDED AUDIENCE

Welcome to release 8.0.6.0.0 of the Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Accounting Hub Cloud 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 AHC 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.

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.

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 8.0.6
- Oracle Financial Services Data Integration Application Pack Installation Guide Release 8.0.6
- Oracle Financials Cloud Implementing Accounting Hub Guide
- Oracle Financials Cloud Accounting Hub Best Practices Guide

Acronyms

Acronym	Description
ADI	Application Data Interface
AHC	Accounting Hub Cloud
Apps	Application
DIH	Data Integration Hub
EDD	External Data Descriptor
GL	General Ledger
KM	Knowledge Module
ODI	Oracle Data Integrator
PT	Pass Through
SR	Supporting References
SLA	Sub-Ledger Application / Subledger Application
UI	User Interface
UCM	Universal Content Manager

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 Accounting Hub Cloud (AHC)

Accounting Hub Cloud (AHC) is an accounting integration and reporting platform in oracle cloud that includes products, such as subledger Accounting, Ledger, and Financial Reporting Center. AHC 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. AHC 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.

1.3 Objective

Integration of AHC 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 AHC 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 AHC 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 AHC, 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 AHC to book entries and generate financial balances, which in turn are reused by OFSAA for analytical processing.
- Using AHC 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 AHC 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 AHC enhancing the reliability of operational risk and provisioning measurement.

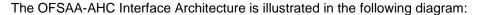
1.4 About Oracle Financial Services Data Integration Hub Foundation Pack Extension for Oracle Accounting Hub Cloud

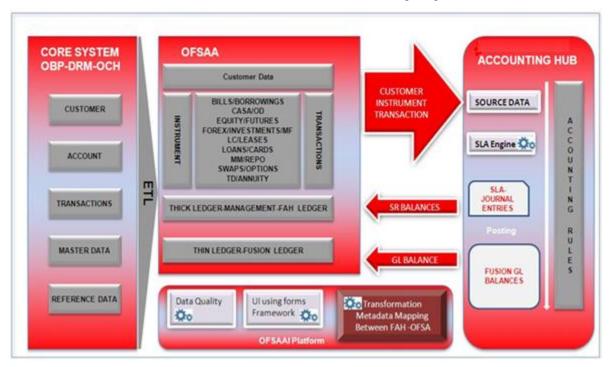
The major components that can be leveraged from AHC are:

- Pre-Defined Subledger Transaction Object Models
 - Retail Banking
 - o Commercial Banking
 - o Investment Banking
 - Islamic Banking
 - Treasury
 - Core Banking PT
- Auto generate AHC Subledger registration and transaction feed templates
- Pre-built automated transaction feed to Accounting Hub Cloud
- Wizard to customise Subledger Transaction Objects
- Pre-built automated GL Balances feed from Cloud GL to OFSAA.

NOTE: The supported version of AHC is Accounting Hub Cloud is 18B.

1.5 OFSAA-AHC Interface Architecture Overview





The data flow between OFSAA and AHC is bi-directional in nature. OFSAA includes all the account, contract and transaction information which AHC 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.

Data is extracted from OFSAA to AHC through DIH connectors (pre-packaged/custom) and is processed within the AHC using accounting rules. The updated GL balances are then extracted, to load General Ledger Balances and Supporting Reference Balances.

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

OF SAA – AH Integration On Premise - OFSAA On Premise - OFSAA Header FilesInformation about Transaction Objects Un-compress and Import Un-compress and Import Line Item FilesActual Transaction data Output Go, and SR data saved in CSW format Exercity Compress Country Rules Actual Transaction data Output Go, and SR data saved in CSW format Exercity Country Rules Output Go, and SR data saved in CSW format Country Rules Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Country Rules Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, and SR data saved in CSW format Output Go, a

1.6 OFSAA – AHC Integration Overview

The data flow between OFSAA and AHC takes place through files, as AHC is on cloud.

The integration consists of the following processes:

- 1. Generate SLA template
- 2. Extract Data from FSDF for AHC using DIH
- 3. Load GL data from AHC using DIH

AHC provides marcro enabled SLA XL template for integrating 3rd party systems. This template gets deployed as part of DIH extenion for AHC installation.

DIH automates the population of SLA XL template. Post deployment you must select one of the pre-packaged SLA definitions in DIH and click the Download Template button. DIH makes a copy of SLA XL template with Source System details (which is the Subledger details) and then populates with Event Types. Event types referred in this document are same as Transaction Types in AHC. Header and Line definitions pre-packaged in DIH. The updated SLA XL template is then manually opened from Source Sheet. Click validate in the Source System sheet. Ensure to enable marco before validating the template.

In case of errors, fix the SLA definitions in DIH and regenerate the SLA XL template. Refer SLA XL instruction sheet for resolving the error. After the errors are fixed or if there are no errors, from "source sheet" click Generate Zip button. The macro generates a zip file with the same name and in the same location as SLA XL template. The zipped files are then manually uploaded into AHC. The file contains metadata of source system that has to be registered, along with the transaction object attributes and transaction types. This must be performed for each SLA defined in DIH.

Refer section SLA Template to Register Source System for more details.

The uploaded zip files register source system, event types and define transaction objects (header information and line information) in AHC. AHC has to be configured as per GL accounting requirment.

Post AHC configuration, OFSAA batches are performed using pre-packaged AHC connectors, extract transaction data from FSDF stage tables in ASCII format. The output files are zipped and pushed to AHC through UCM (Universal Content Manager) and the general entires are posted.

On completion of AHC processing two output csv files are created, one with GL balance and other supporting reference balances. OFSAA batch process is performed using pre-packaged insert connectors and loading data into STG_GL_DATA and STG_MANAGEMENT_LEDGER.

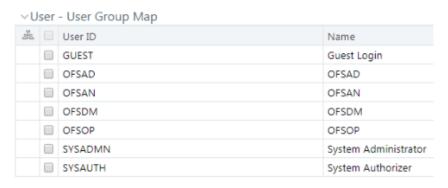
2 Mapping the OFSAA User to AHC User Groups

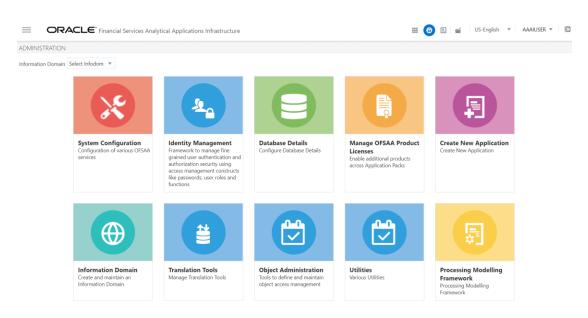
User- User Group Map enables you to map user(s) to specific user group which in turn is mapped to a specific Information Domain and role. Every user group mapped to the infodom should be authorized. Else, it cannot be mapped to users.

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.

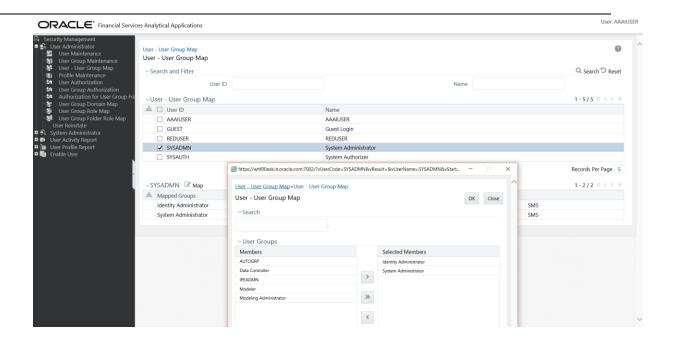
Pre-packaged User Groups for OFSAA - AHC Interface

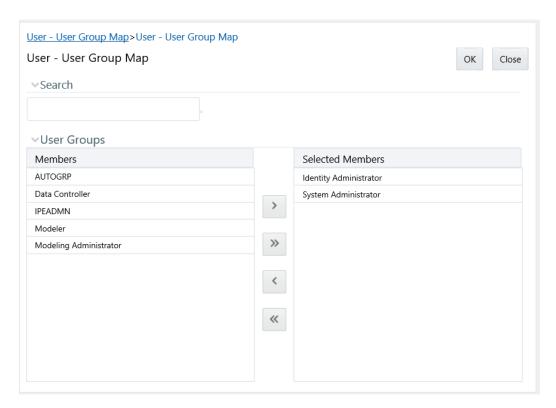




Identity Management

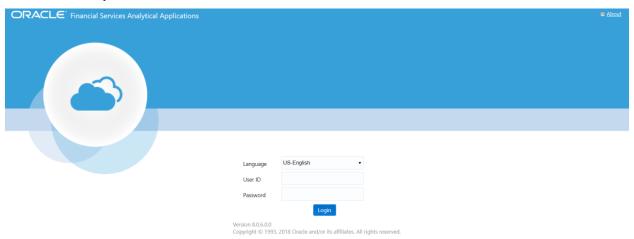
OFS DIH Foundation Pack Extension for FAH User Manual





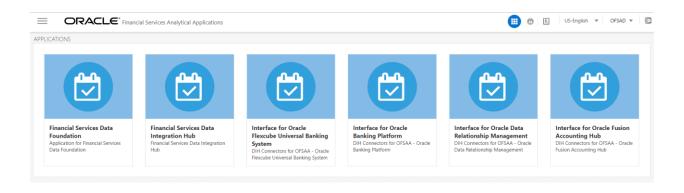
3 Logging into AHC-OFSAA Interface

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

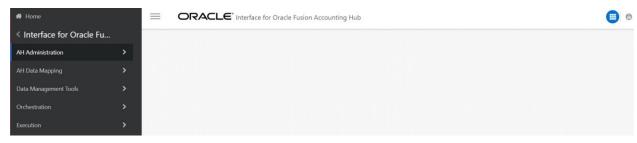


After logging into the application, select Interface for Oracle Accounting Hub.

Note: You should be mapped at least any one of the AHC user groups.



The AH-OFSAA landing page is displayed below.



4 Component Details

The following components included in this interface:

- Pre-packaged Subledger Information
- Template to Register Source System
- Data Integration Hub (DIH) Connectors

4.1 Pre-packaged Subledger Information

The following Subledger applications are pre-defined for the integration:

- Retail Banking
- Commercial Banking
- Investment Banking
- Treasury
- Islamic Banking
- Core Banking PT

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

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

Subledgers can have two types of templates.

- Transactions-based: This indicates that AHC receives transaction information which is not preformatted for accounting. There are no debits or credits.
- Based on Passthrough accounting entries: There are debits and credits from the source system.

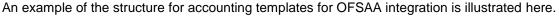
The rules vary based on the templates used.

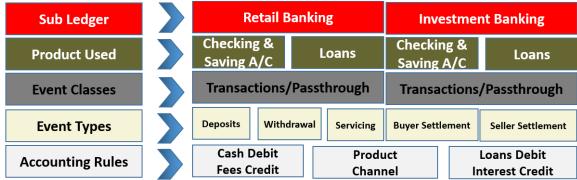
Subledger Application	Туре
Retail Banking	Transaction based
Commercial Banking	Transaction based
Investment Banking	Transaction based
Treasury	Transaction based
Islamic Banking	Transaction based
Core Banking PT	Based on Passthrough accounting entries

Subledger Information has transaction types/event types mapped, along with the list of transaction and line attributes defined for each Subledger application.

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

You can use these pre-packaged Subledgers or create custom Subledger applications in the DIH extension to Accounting Hub Cloud.





The Retail Banking Subledger application has two process products involved: Checking and Savings Accounts and Loans. Each of these products can have one of the two event classes: Transactions or Passthrough entries. Note that pre-packaged Subledger applications use only one event class per Subledger.

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. These event types and templates can be later used to configure rules in Accounting Hub Cloud.

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. Product and channel are examples of potential supporting references.

4.2 SLA Template to Register Source System

AHC has the flexibility to register a source system and create objects within it automatically using a standard template format, and it is macros-enabled. To register a source system and create a Subledger within AHC, download the recommended, macro-enabled, standard template from the cloud application and upload it back with data. The Data Integration Hub Foundation Pack Extension for Oracle Accounting Hub Cloud helps in generating the template which is automated.

Use the DIH extension for AHC to input data to this template, after configuring a Subledger fully in the DIH screens. Refer to the list of pre-packaged Subledgers and respective configurations.

The sheets present in the standard AHC template are described here.

1. Instructions

Provides a brief overview of the template structure and instructions to create the final zip file, which has to be uploaded to the AHC environment.

2. Source System

Has sections using which you can input source system name and transaction types (event types) which are used to register the source system in AHC.

- Source System Name and short name are mandatory. This goes as the name for Source,
 Subledger, Journal Source, Journal Catoegory and Process Category.
- Transaction Types Name and short name for all the event/transaction types must be mandatorily provided in this section.
- There are 'Validate' and 'Generate ZIP' buttons available on the Source System sheet. DIH populates all the required information in this SLA template. The template must be downloaded to a local system. You can open and click the Validate button to check for all validations embedded within the sheet. See the SLA Template Validations section for instructions. Click the Generate ZIP button to create a zip file, which you must manually load to the AHC environment.

3. Transaction Information

Provide all the attributes which you wish to use as header attributes in AHC in this section. You must enter the Name, Short Name, Domain and Journal Display. By default, three mandatory attributes are displayed, which cannot be removed; they are highlighted in grey.

4. Line Information

Provide all the attributes which you wish to use as line attibutes in AHC in this section. You
must enter Name, Short Name, Domain and Chart of Accounts Display. By default, there
are three mandatory attributes displayed, which cannot be removed and are highlighted in
grey.

NOTE: SLA template comes as a part of installation kit and is available in the following path:-

<FIC_HOME>/ficweb/webroot/dihub/extras/fah/slatemplate/XlaSourceSystemSetup.xlsma particular place on the server

It is recommended you rename the prepackaged one, download the XlaSourceSystemSetup SLA template from the AHC environment, and place it in the requied server during installation in the above mentioned path before running the ./ant.sh script.

Download the latest XIaSourceSystemSetup.xlsm template from the Accounting Hub Cloud, open it for editing, and go to the **Line Information** sheet. Rename DEFAULT_AMOUNT and DEFAULT_CURRENCY to TRANSACTION_AMOUNT and TRANSACTION_CURRENCY, respectively.

Then Backup/Rename the pre-packaged XlaSourceSystemSetup.xlsm template in <FIC_HOME>/ficweb/webroot/dihub/extras/fah/slatemplate/ directory and copy the downloaded and edited template here. See the <u>SLA Configurations</u> template section for more information.

4.3 DIH Connectors

4.3.1 Extract Connectors

The DIH connectors extract data from OFSAA staging tables which have to be created as part of creating Subledger in the application. These connectors extract data from OFSAA staging tables and ASCII file format per SLA definitions.

There are two External Data Descriptors (EDD) that are created for each Subledger that is saved in DIH extension for AHC application. One EDD is for the Header file and another for the Line file. Each EDD has the same structure as the transaction and line attributes that have been configured for a Subledger, respectively. The attributes of the Subledger which are defined in these EDDs are mapped to the attributes of the staging tables.

There are pre-defined connectors that are created as part of pre-packaged Subledgers. EDDs and connectors are already provided for pre-packaged Subledgers.

All Header Connectors accept the following input parameters:

- FIC_MIS_DATE or MIS_DATE is the Extraction Date
- LEDGER_NAME Name of the Primary Ledger
- SLA_CODE Subledger Code or Short Name

All Line Connectors accept the following input parameters:

- o FIC_MIS_DATE or MIS_DATE is the Extraction Date
- SLA_CODE Subledger Code or Short Name

For Extract Connectors and mapping details, see the Extract Connectors Structure file section.

4.3.2 Insert Connectors

The connectors have pre-built mappings between AHC source views for GL/SR balances and OFSAA staging entities meant to store ledger data.

The following connectors are provided by AHC for GL and SR balances:

- AH GL Balances Insert Con: Connector to load thin ledger balances into STG_GL_DATA table in OFSAA. This connector accepts these input parameters:
 - Period Name
 - FIC_MIS_DATE or MIS_DATE is the Extraction Date
- AH SR Balances Insert Con: Connector to load thick ledger/supporting reference balances into STG_MANAGEMENT_LEDGER tables in OFSAA. This connector accepts these input parameters:
 - Period Name
 - FIC_MIS_DATE or MIS_DATE is the Extraction Date

For Connectors and mapping details, see the Insert Connectors Structure file section.

NOTE:

- For Example in Retail Banking of Packaged Subledger,
 SLA_CODE is RETAIL_SLA. This parameter is auto populated in the batch (from Subledger) if connectors are published through Subledger Data Mapping screen.
- FIC_MIS_DATE or MIS_DATE is auto populated in the batch (from batch execution date) if connectors are published through Subledger Data Mapping screen.

5 Implementation

5.1 Background

Transaction objects in AHC are tables 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. 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.

Two separate header tables, one for each flow type is introduced in the OFSAA staging area for defining header and one Line table is introducted for defining line sources in AHC:

- Stage Transaction Header (STG_TXN_HEADER) for event based accounting
- Stage Accounting Entries Header (STG_ACCT_ENTRIES_HEADER) for pass through accounting
- Associated Transaction Line Table for Line accounting. Example- STG_ANNUITY_TXNS for event based Accounting and STG_ACCOUNTING_ENTRIES for passthrough accounting

5.2 Implementation Guidelines

- Transaction numbers must match in the header and line files of import data files in AHC. You
 must carefully create connectors to extract the transaction numbers that have to match
 accordingly.
- 2. Ensure you provide the correct ledger name in the DIH screens while configuring the Subledger.
- 3. Do not execute the connectors batch in DIH till the accounting rules and other required setup are configured.
- 4. Create connectors with appropriate filters, in order to extract only the required data from a table. Once a set of transaction numbers are processed in AHC, it does not accept the same transaction numbers again for a Subledger. Hence, you must carefully extract required data for appropriate accounting.
- 5. If SLA template is to be re loaded to AHC after changes, you must be careful while replacing the old configuration and must again create the accounting rules accordingly.
- Only those event type names which are configured in AHC can be processed for accounting. If any other event type names come as part of data files imported to AHC, the whole file will not be processed.
- 7. After the SLA template is uploaded and source system is registered, in case of any further changes, ensure the following steps are followed in both DIH and AHC:
 - If you add/edit/delete any of the attribute or event types in the AHC screens, but do
 not update the respective changes in the DIH application, integration may fail as
 data extract files will still have the unchanged structure of DIH.

- o If you add/edit/delete any of the attribute or event type in the DIH screens, but do not download the new template and re upload it back to AHC application, integration may fail. In this scenario, AHC application has a different Subledger configuration and the DIH extract connectors will have a different configuration which can lead to failure in data import.
- If there are any changes made in source system/Subledger structure either in DIH or AHC, other application structure must also be changed accordingly. If not, it may lead to integration failure.
- 8. Through DIH there is no mechanism to identify those transactions which do not get processed for accounting. You must identify them through AHC screens and re-upload them separately, after making required corrections.

5.3 Transaction Object Population

Transaction objects are extracted in to Header and Line csv files and converted to zip format along with Metadata text file.

- 1. In Subledger applications, each Subledger will have Header and Line Objects defined along with Event types.
- 2. Header and Line Connectors are created to extract Header and Line data respectively.
- 3. Connectors are published and auto generated batch is executed.
- 4. After successful executinon of all Tasks in batch, Header information is extracted to XlaTrxH.csv file and Line information to XlaTrxL.csv file.
- 5. Metadata.txt file is auto populated with Subledger details.
- 6. All the three files: XlaTrxH.csv, XlaTrxL.csv and Metadata.txt, are auto converted to zip format which can be uploaded to AHC.

6 AH Administration

6.1 Refresh AH Interface

6.1.1 Deploying OFSAA-AH Connectors Using Refresh AH Interface

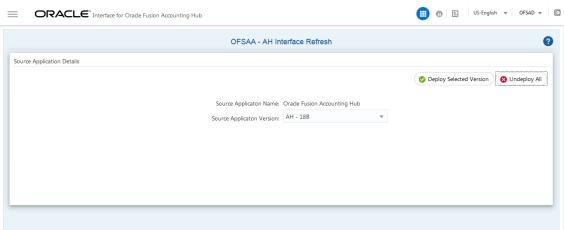
After the pre-requisites are complete, you can deploy the AHC connectors that map the multiple file EDDs to the corresponding ADIs through the **Refresh AH Interface** menu. This creates the corresponding External Data Descriptor and Connectors inside the **Data Mapping** menu of the AH Interface.

To deploy:

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

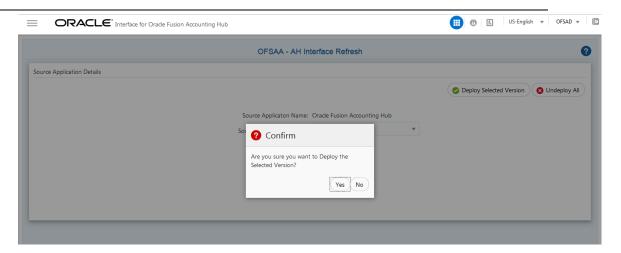


- 3. Select the **Source Application Version** (AH 18B) from the drop-down menu.
- 4. Click **Deploy Selected Version**. The message, "Are you sure you want to Deploy the Selected Version?" appears.

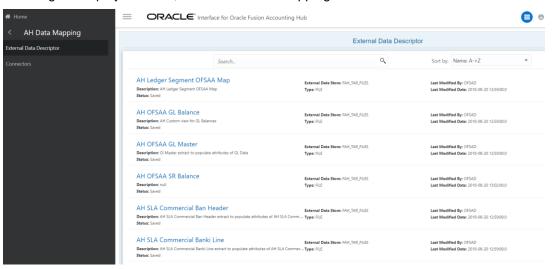


5. Click **Yes** to proceed. After the deployment is complete, the "Deployment Successful" message appears.

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



AH External Data Descriptor



AH Connectors

6.1.2 Undeploying OFSAA-AH Connectors Using Refresh AH Interface

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

6.1.2.1 Deploying Upgraded Source Version

If there is an upgraded source application (AHC) 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 AHC connector supports AHC version AH - 18B.

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

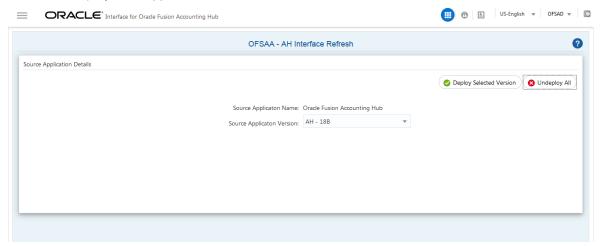
6.1.2.2 Changes in ODI / External Data Store Settings

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.

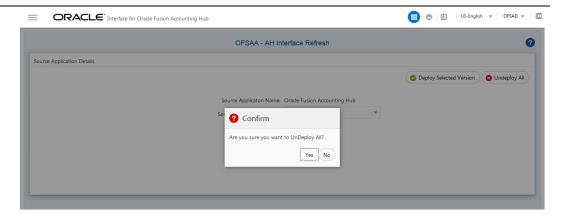
NOTE: You cannot undeploy the connectors if any of the Connector/External Data Descriptor is in published mode. Unpublish all the Connector/External Data Descriptor before proceeding with undeployment.

To undeploy:

1. Click **Undeploy All** to undeploy the Connector version. The message, "Are you sure you want to Undeploy All?" appears.



Click Yes to proceed.



3. After the undeployment is complete, the "Successfully UnDeployed All" message appears.

6.2 Event Types

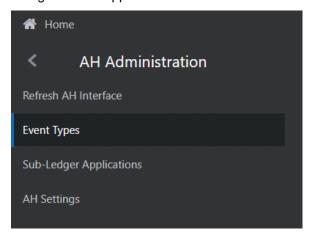
Event or Transaction types, refer to accounting events that are captured when transactions are committed or processed. While creating a Subledger, different event types are created so that all the transactions can be classified into one or the other event type and are used for creating journal lines. Example of event types can be withdrawal, deposits, servicing, fee, charges and so on.

Event types are required to collect the transaction data and process it into accounting data necessary to form the Subledger information. Data from different source systems come together and get processed depending on these categories to form ledger information.

NOTE: In order to use pre-packaged Subledgers, you must use only the pre-packaged event types in the source system data.

To understand the event types:

1. Navigate to AH application interface.



2. Select AH Administration, and click Event Types.

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A list of pre-packaged event types are displayed on the screen, which you can map with Subledgers accordingly. You cannot edit or delete these pre-packaged event types.

- 3. You can search for Event Type Name or Short Name. Enter a part or full name and click the search button to get the filtered result.
- 4. Under **Summary**, you can Add, Delete, View or Edit the events.
- 5. Click $^{igspace Add}$. The event **Types** screen appears.
- 6. Enter the following details to create a new event and click **Save**.



- a. Event Type Name
- b. Event Type Short Name
- c. Description
- d. Passthrough

Note: The following are the validations for the above fields:

Field Name	Limitations/Validations
Event Type Name	Name must not have special characters.
	Only alphanumeric characters and spaces are allowed.
	Must not be more than 15 characters.
	Name must not start or end with a space.
	Must be unique.
Event Type Short Name	Short Name must have only Uppercase, numbers and underscores.
	Short Name must start only with an uppercase or a number.

Field Name	Limitations/Validations
	Cannot have special characters and space.
	Must not have more than 15 characters.
	Must be unique.

- 7. Click Delete if you wish to delete an event.
- 8. Click View to view the details of the event type.
- 9. Click to edit the event type details.



10. Click Export to move the screen data to an Excel or CSV format for reference.

Note: It is not possible to edit or delete the event types which are pre-packaged in the application as well as those which are mapped to a Subledger. All event types lists are stored in the table FSI_ACCNTING_EVENT_TYPE_MASTER.

6.3 Sub-Ledger Applications

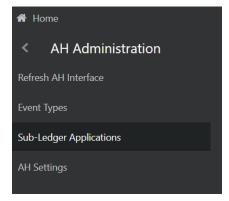
The goal of Subledger accounting is to generate journal entries for transactions that occur in Subledgers. In order to generate general ledger balances, it is very important to create journal lines and Subledger information. Subledger configuration helps transactional data to be transformed to GL account level data by defining rules and thus loading the ledger balances. The total of the transactions in the Subledger roll up into the general ledger.

AHC application has the SLA template through which a Subledger and its details are loaded.

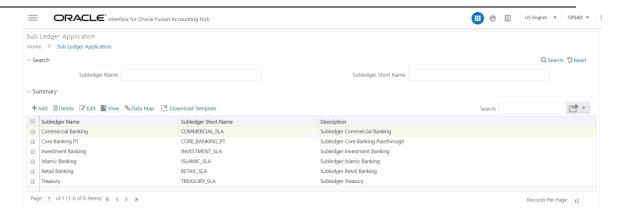
6.3.1 Sub-Ledger Summary

To understand the Sub-Ledger summary screen:

1. Navigate to AH application interface.



2. Select AH Administration, and click Sub-Ledger Application.



3. You can search for Sub-Ledger Name or Short Name. A list of pre-packaged Subledgers appears. For more information, see the SLA Coverage list in the previous section.

NOTE: Pre-packaged Subledgers are not editable through AHC Sub-Ledger screens.

- 4. Under **Summary**, you can Add, Delete, Edit, View Data Map and Download the Sub-Ledger.
- 5. Click **Add to create a new Sub-Ledger.
- 6. Select one Sub-Ledger and click Delete if you wish to delete a Sub-Ledger.
- 7. Select one Sub-Ledger and click to edit the Sub-Ledger details.

NOTE: It is possible to publish or unpublish connectors for the pre-packaged Subledgers.

- 8. Select one Sub-Ledger and click View to view the details of the Sub-Ledger.
- 9. Select one Sub-Ledger and click Opata Map to create and map connectors to the selected Sub-Ledger.
- 10. Select one Sub-Ledger and click Cownload Template.
- 11. After the details are filled, save the Sub-Ledger.
- 12. Download the SLA template that has to be uploaded to the AHC application.

Note: It is mandatory to manually validate the template and create a zip file which must be uploaded to AHC cloud environement. In case of errors during validation, update the required changes in the DIH screens and then download the template again. See the <u>SLA Template Validations</u> section for more information. Subledgers saved are stored in the table FSI_SLA_MASTER.

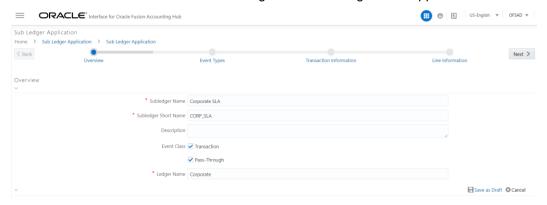
13. Click Export Scsv

to move the summary data to an Excel or CSV format.

6.3.2 Adding Sub-Ledger Application

To add a Sub-Ledger:

1. Click **Add to create a new Sub-Ledger. The following screen appears.



- 2. Under **Overview**, enter the following details:
 - a. Subledger Name
 - b. Subledger Short Name
 - c. Description
 - d. Event Class
 - e. Ledger Name

Note: The following are the validations for the fields mentioned above.

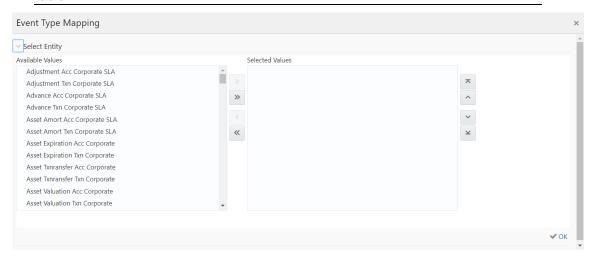
Field Name	Limitations/Validations
Subledger Name	Name must not have special characters.
	Only alphanumeric characters and spaces are allowed.
	Must not have more than 15 characters.
	Name must not start with a space.
	Must be unique.
Subledger Short Name	Short Name must have only Uppercase, numbers and underscores.
	Short Name must start only with an uppercase or a number.
	Cannot have special characters and space.
	Must not have more than 15 characters.
	Must be unique.
Event Class	Can select one or both the options.
Ledger Name	Must not exceed 100 characters.

Field Name	Limitations/Validations
	Change the Ledger name to the required name, for the pre-packaged Subledgers, which by default has 'Default Ledger' as the input name.

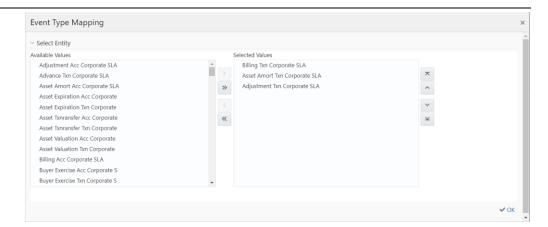
- 3. Click Save as Draft. The message, "Subledger draft saved successfully" appears.
- 4. Click Ok. The Event Types screen sppears.
- 5. Under **Event Types**, perform the following steps:
 - a. Click + Event Type Mapping. The Event Type Mapping screen appears.

All event types that have been created as part of Event Types, along with the prepackaged list of event types screen appears here on the LHS.

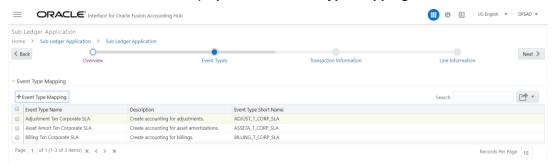
Note: Event types get filtered based on the Event Class selected for the Subledger. Event Type to Subledger mappings are stored in the FSI_SLA_EVENT_TYPE_MAP table.



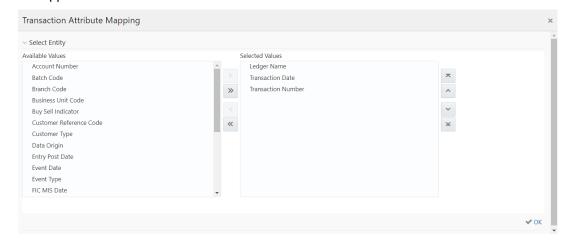
- b. Click to move the required entities to the selected values list.
- c. Click to move all the entities to the selected values list.
- d. You click to move the entities up and down.
- e. After the entities are selected, click OK.



The selected values are now displayed under **Event Type Mapping**.



- 6. Under **Transaction Information**, perform the following steps:
 - a. Three mandatory attributes: Ledger Name, Trasaction Date, and Transaction Name, are selected by default and cannot be edited.
 - b. Click Transaction Attribute Mapping. The **Transaction Attribute Mapping** screen appears.

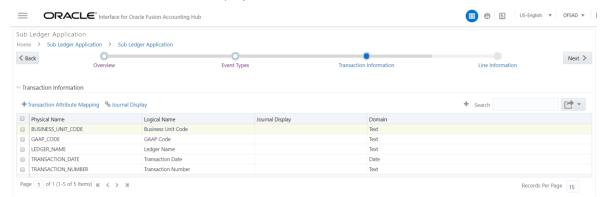


- c. The list of transaction attributes is displayed. These are seeded from the FSI_SLA_ATTR_MASTER table.
- d. Ledger Name, Trasaction Date, and Transaction Name are selected by default.

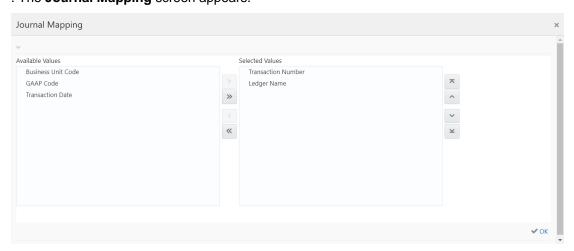
- e. Click to move the required entities to the selected values list.
- f. Click to move all the entities to the selected values list.
 - You click to move the entities up and down.
- g. You click to move the entitles up and down.
- h. After the entities are selected, click **OK**.

^

The selected values are now displayed under Transaction Information.



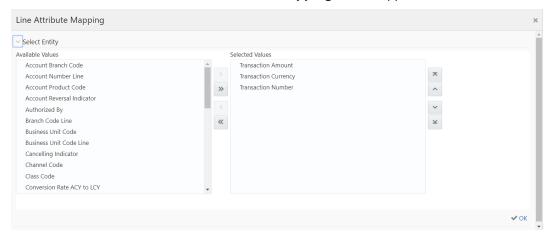
. If you wish to display these attributes as part of journal lines, click Journal Display . The **Journal Mapping** screen appears.



Note: You cannot assign journal display as YES to Ledger name.

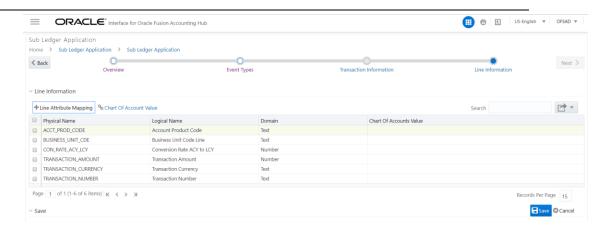
- j. Click to move the required entities to the selected values list.
- k. Click to move all the entities to the selected values list.

- ^
- I. You click to move the entities up and down.
- m. After the entities are selected, click **OK**.
- n. Click Next.
- 7. Uner **Line Information**, perform the following steps:
 - Three mandatory attributes: Transaction Amount, Trasaction Currency, and Transaction Number are selected by default and cannot be edited.
 - b. Click +Line Attribute Mapping acreen appears.

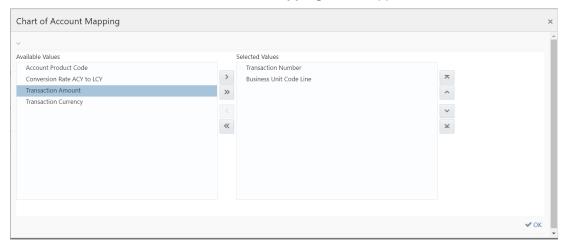


- c. The list of line attributes is displayed. These are seeded from the FSI_SLA_ATTR_MASTER table.
- d. Transaction Amount, Trasaction Currency, and Transaction Number are selected by default.
- e. Click to move the required entities to the selected values list.
- f. Click to move all the entities to the selected values list.
 - ^ ~
- g. You click to move the entities up and down.
- h. After the entities are selected, click **OK**. The selected values are now displayed under **Line Information**.

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i. If you wish to display these attributes as part of chart of account, click % Chart Of Account Value . The **Chart of Account Mapping** screen appears.



Note: You cannot assign chart of accounts display as yes to the three mandatory columns.

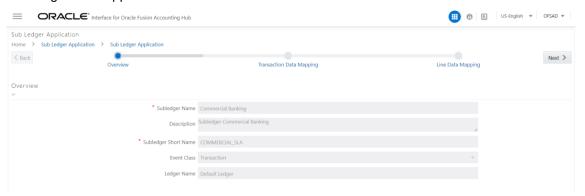
- j. Click to move the required entities to the selected values list.
- k. Click to move all the entities to the selected values list.
- I. You click to move the entities up and down.
- m. After the entities are selected, click OK.
- 8. Click Save. A entity is now saved under the summary screen.

NOTE: After the transaction and line information are mapped and saved, they are stored in the FSI_SLA_TRANSACTION_ATTR and FSI_SLA_LINE_ATTR tables, respectively. Transaction and Line information are already configured for the pre-packaged Subledgers. See the Pre-packaged Subledger Configurations section.

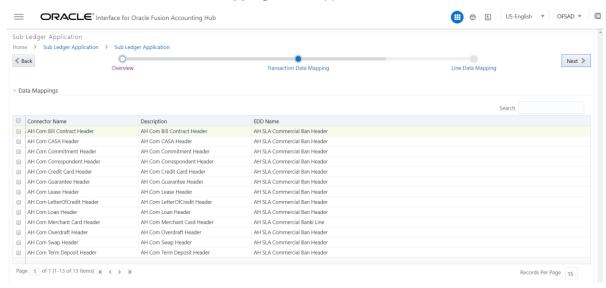
6.3.3 Using Data Map

To create a connector and map it to a Subledger:

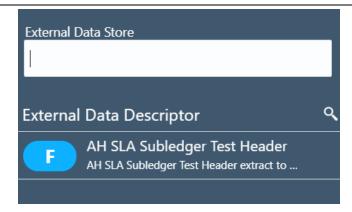
1. Select a row under the Subledger Application summary and click *Data Map*. The following screen appears. The fields are non-editable under Overview.



Click Next. The Transaction Data Mapping screen appears.



- a. Click Create to add a new data mapping. The New Connector screen appears.
- b. Under Target, the EDD is automatically created. For example, Subledger name is Commercial Banking. The EDD is created with AHC SLA as the prefix of the name and Header as the suffix. Full name is "AH SLA Commercial Banking Header". EDD structure will have all the attributes that have been mapped to the Subledger under Transaction Information.



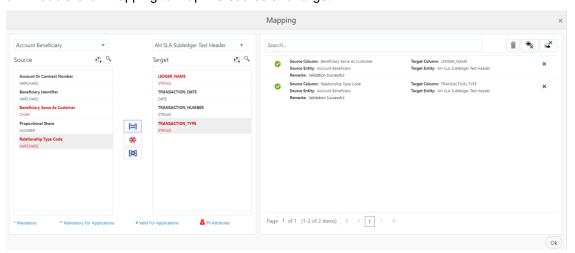
c. Map the required source and target and save the connector.



NOTE: You must carefully apply filters, if any, while creating connectors in order to fetch the correct data from a product for a particular Subledger. Extraction Date filter is already enabled with pre-packaged connectors for executing them.

Event Type names must also be filtered depending on the Subledger you configure. If unconfigured, event types are processed in the extract data for a particular Subledger and the accounting process fails.

d. Double-click mapping to map the source and target.



Note: For more information on mapping, see the *Connectors* section in the *DIH User Guide*.

e. Click Properties screen appears.

Created By: OFSAD

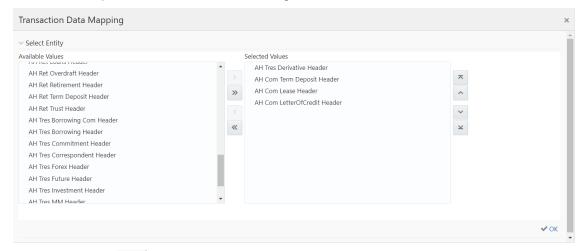




The Connector Details

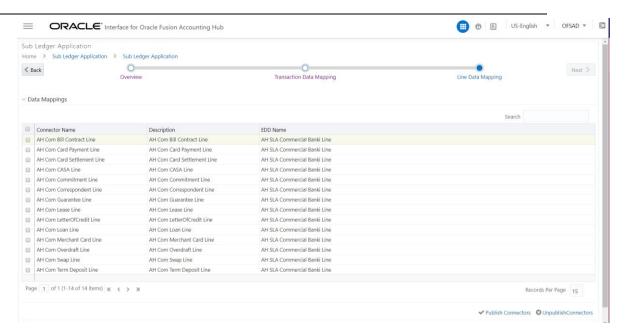
f. Enter the name and description and click Publish / Save / Save As Draft. You can also publish the connector under the **Subledger Data Mappings** screen. The published connector is displayed under **Data Mappings** screen.

Created Date: 2018-8-2 13:13:53

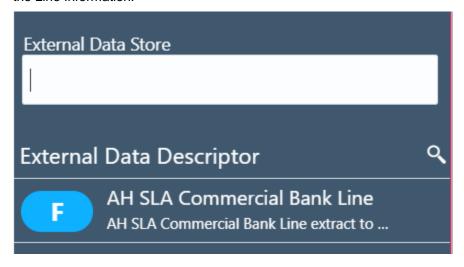


- i. Click to move the required entities to the selected values list.
- ii. Click to move all the entities to the selected values list.
- iii. You click to move the entities up and down.
- iv. After the entities are selected, click OK.
- 3. Click Next. The Line Data Mapping screen appears.

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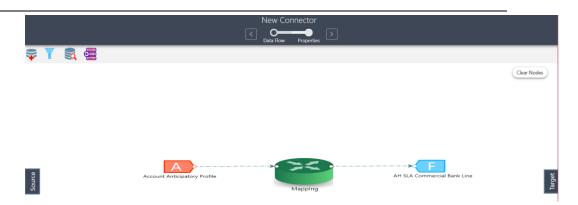


- a. Click Create to add a new data mapping. The New Connector screen appears.
- b. Under Target, the EDD is automatically created. For example, Subledger name is Commercial Banking. The EDD is created with AHC SLA as the prefix of the name and Line as the suffix. The full name is "AH SLA Commercial Banking Line". EDD structure will have all the attributes that have been mapped to the Subledger under the Line Information.

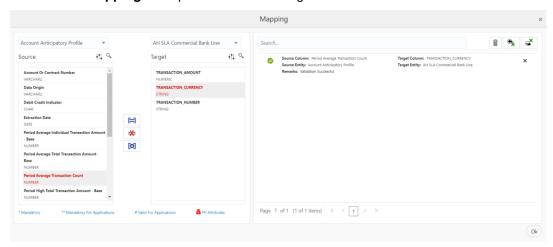


c. Map the required source and target, and save the connector.

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d. Double-click **Mapping** to map the source and target.



Note:

You must apply filters, if any, while creating connectors in order to fetch the correct data from a product for a particular Subledger. Extraction Date filter is already enabled with prepackaged connectors for executing them.

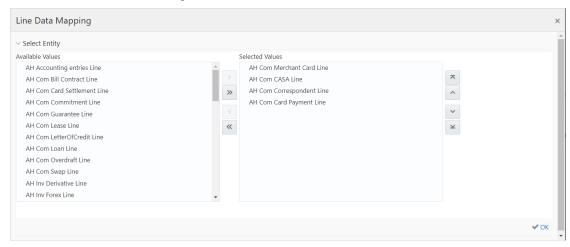
For more information on mapping, see the Connectors section in the DIH User Guide.

New Connector

e. Click Properties or Data Flow Properties or The Connector Details screen appears.



- f. Enter the name and description and click Publish / Save / Save As Draft. You can also publish the connector under the **Subledger Data Mappings** screen. The published connector is displayed under the **Data Mappings** screen.
- g. Click Stine Data Mapping. The **Line Data Mapping** screen appears. It displays all the line related connectors which are saved under AHC. You can add the required connector for the Subledger listed here.



- i. Click to move the required entities to the selected values list.
- ii. Click to move all the entities to the selected values list.

- ^
- iii. You click to move the entities up and down.
- iv. After the entities are selected, click OK.
- 4. Click Save. The message, "SLA and Connector saved successfully" appears.
- 5. Click Publish Connectors to publish all the Transaction and Line EDD related connectors. After publishing successfully, a batch is created automatically and the batch name is displayed in the popup up message(<INFODOM>_DIH_AH_<SLA_CODE>).
- 6. In case you wish to unpublish the connector, click UnpublishConnectors
- 7. After unpublishing a connector, select required connector row checkbox and click

 Edit Data Mapping to edit a required connector.**

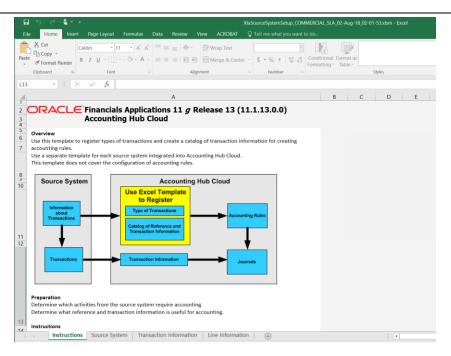
Note: EDDs are created after saving a Subledger. EDD names are stored in the FSI_SLA_EDD_MAP table. All the transaction and line data mapping connectors saved are stored in the FSI_SLA_DATA_MAPPING table. See the <u>Connectors Structure</u> sectionfor more information.

6.3.4 Downloading a Template

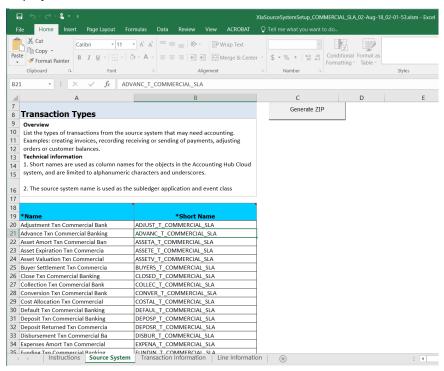
All data filled in Subledger Applications can be downloaded to a template.

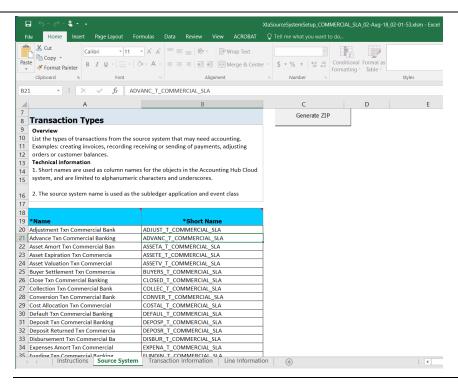
Note: There is an option to download the template and then map the data.

Under the Sub-Ledger Summary screen, select a required row and then click
 Download Template
 A file with the .xlsm extension is downloaded with all the Subledger or source system data filled in.



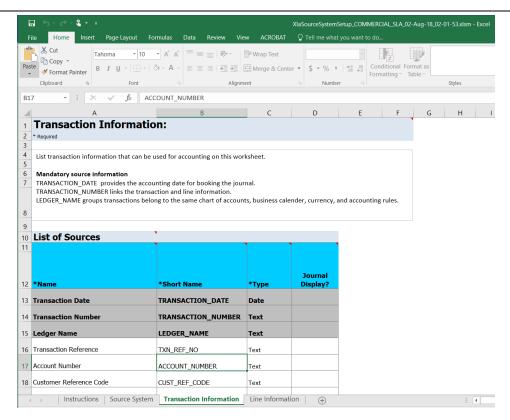
- 2. In the **Instruction** screen, all the details are explained.
- 3. In **Source System**, the name and short name given in Subledger Application screen are displayed.



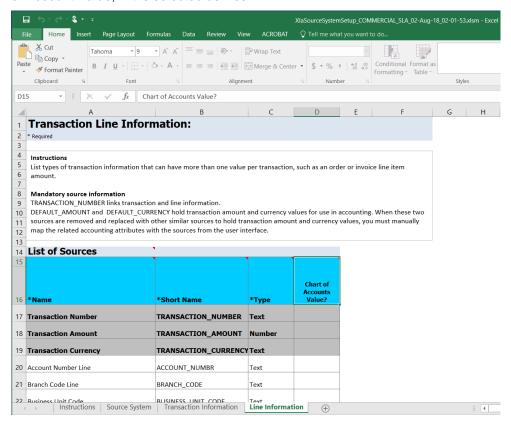


Note: The name or short name which appears in the row must have the event type name along with the Subledger application name. The Event Type name is appended with the SLA name in order to maintain uniqueness of event types across all the Subledgers. The length is up to 30 characters and the name limit is adjusted to that.

4. In **Transaction Information**, all the event types name and short name are displayed along with Journal Displayed, if it is selected as Yes.



5. In **Line Information**, all event types name and short names are displayed along with Chart of Account Value. if it is selected as Yes.



Note: The three mandatory columns are listed in grayed area for both transaction and line information.

6. Click **Validate**, under **Source System Transactions** to check if there are any errors in the template.

Note: In case, you want to make changes in the template, change the configurations in the DIH screens, and download the template again.

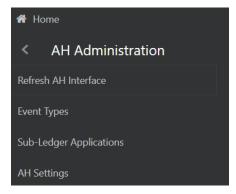
7. Click Generate ZIP, under Source System Transactions to upload this file in AH Cloud.

Note: Upload the zip file in the right task list within AHC and map the 'Entered Amount' and 'Entered Currency' in Manage accounting attributes to Transaction Amount and Transaction Currency, before configuring the rules.

6.4 AH Settings

To setup AH:

- 1. Navigate to AH application interface.
- 2. Select AH Administration, and click AH Settings.



The **OFSAA - ERP Settings for Accounting Hub Cloud Services(AHCS)** window appears. Enter these details when the extracted XlaTransaction zip file is uploaded to Accounting Hub Cloud through an automated service.



3. Enter the following details:

• ERP URL for Accounting Hub Cloud:

This Cloud Service is the AH Cloud URL

For example:

https://ebcz.fa.dc1.c9dev2.oraclecorp.com/publicFinancialCommonErpIntegration/ErpIntegrationService

Only update the domain name up to *.com as the latter part (publicFinancialCommonErpIntegration/ErpIntegrationService) must remain the same.

- User ID
- Password
- KeyStore Location:

Ensure you import the Certificate to Keystore and save it in the webserver location. See the <u>Import Certificate in to keystore</u> section to know how to generate a keystore.

- KeyStore Password
- Transaction Type Column Name

This column name is created after the Transaction Source system is registered. If changing to other than "TRANSACTION_TYPE" make sure correct name is given.

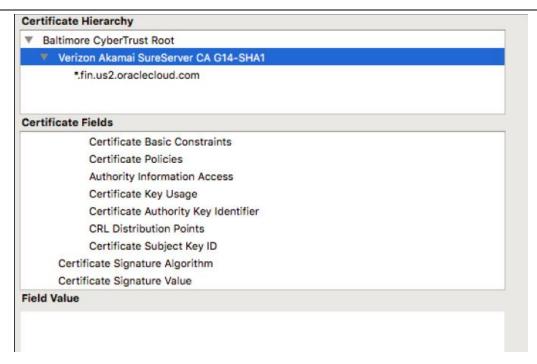
4. Click Save.

6.5 Import Certificate in to keystore

Export the certificate from the browser to the file using the following steps:

- 1. Access the SSL URL for any web service using Microsoft Internet Explorer.
- 2. In Internet Explorer, click **Tools** > **Internet Options**.
- On the Content tab, click Certificates. On the Personal tab, select the Baltimore CyberTrust Root certificate and click View.

The certificate hierarchy appears; export the top two certificates (Baltimore CyberTrust Root and Verizon Akamai SunServer CA G14-SHA1 in the following case).



- 4. On the Certification Path tab, select Baltimore CyberTrust Root and click View Certificate.
- 5. On the **Details** tab, select **Copy to File**. The Certificate Export Wizard appears.
- 6. Click **Next** and enter a name and location for the file you want to export.
- 7. Change the encoding to Base-64 and click Next.
- 8. Provide the file name and click Finish.
- Repeat steps 4 through 8 for the Verizon Akamai SunServer CA G14-SHA1 certificate.
 When using other web browsers, perform similar steps. The navigation path may differ in the web browsers used.
- 10. Type the following command to import a certificate into keystore: keytool -import -trustcacerts -file <filename> -alias <aliasname> -keystore keystore.jks storepass welcome1
- 11. Run the following command to verify if the trust store contains the imported certificates: keytool -list -v -keystore <filename> -storepass welcome1 | grep -i Verizon

7 Execution

7.1 Batch Execution

Note: Source system configuration and all the required accounting rules and other settings should have been already done in the AHC environment before proceeding to Batch Execution.

In the Batch Execution page, there are batches created for each Subledger after the connectors are published in the Subledger section. You can select the required Batch ID, specify the date for which the data must be extracted, and click Execute Batch to trigger the batch.

All the tasks specified within the Batch ID are executed. Tasks involve executing all the connectors that are mapped to the selected Subledger. Connectors extract the data from the respective source tables and load it into a file format that can be read in AHC.

Every SLA batch contains corresponding Header and Line connector tasks and one "RUN Executable" task at the end. This "Run Executable" task performs the following actions:

- 1. Identifies the extracted Header and Line csv files.
- 2. Formats data by removing duplicate Headers rows in both Header and Line files.
- 3. Generates Metadata.txt file with SLA details.
- 4. Creates a zip file including Header, Line and Metadata files.
- 5. The following structure helps to identify the zip files generated:

```
/<EDS_PATH>/<SLA_CODE>/XlaTransaction_<SLA_CODE>_<MIS_DATE>_<TIME
STAMP>.zip
```

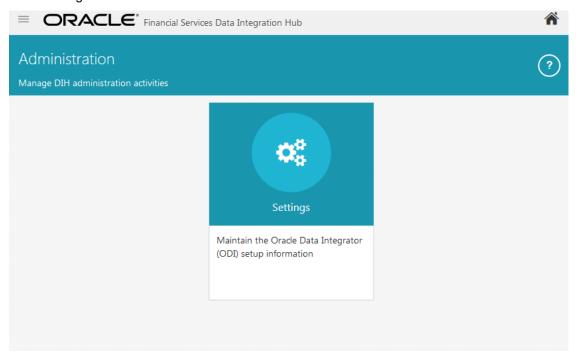
- 6. For every execution, intermediate files are copied to temp folder along with a log file.
- 7. By default, AHC ERP service is disabled to automatically upload zip file to UCM. This can be enabled by updating the sixth parameter of the last task to "Y" before executing the batch.

8 Prerequisites for Deploying OFSAA-AHC Connectors

8.1 Additional DIH Configurations for AHC 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.

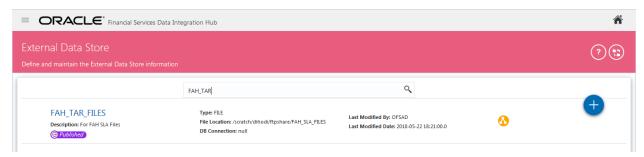


The ODI settings screen is displayed. Update the setting information correctly before proceeding to the deployment of AHC interface connectors.

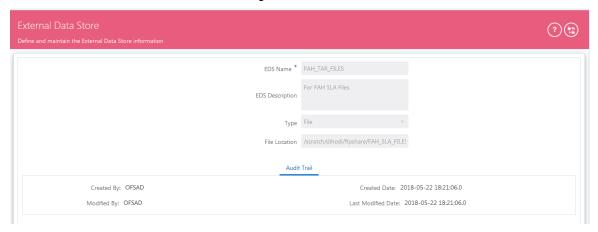
Settings Menu	Values Required	Example
ODI User	User Name used for Login to ODI	SUPERVISOR
ODI Password	ODI Password for the ODI user to login	odipassword
Master Repository DB User	Master Repositorty DB Schema User Name created for ODI	DIHDEV_ODI_REPO
Master Repository DB Password	Master Repositorty DB Schema Password	dbpassword
Master DB Driver	Oracle Driver (Use the Default)	oracle.jdbc.OracleDriver
Master DB Connection	Oracle Database JDBC URL	jdbc:oracle:thin:@10.184.135.6:15 21:DIHDB
Work Repository	Repository used inside ODI	DIHREP

Note: For AHC Batch Execution there should be a ODI Agent configured on ficdb server and Default Agent should be pointing to this Agent.

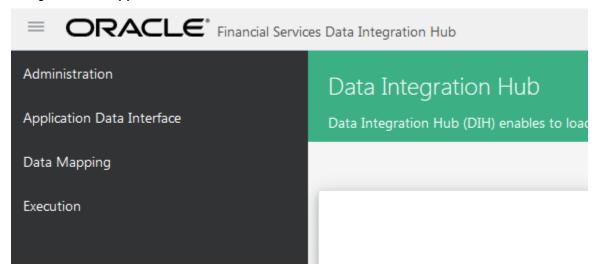
3. A source named FAH_TAR_FILES is present in External Data Store under DIH Application. Select the entry FAH_TAR_FILES to Edit.



4. Enter the details of the folder path where AH files must be extracted. The path must be in the same sever where the ODI Agent is installed and configured. Refer to <u>DIH User Manual</u> for more details on External Data Store File settings.

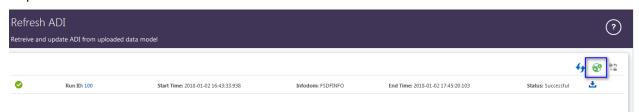


5. Navigate to DIH Application, click Menu.



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

8. Click **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.



- 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.



Note:

Refer to <u>DIH User Manual</u> to obtain detailed information for any of the steps mentioned above.

9 GL and SR Balance Extraction using AHC Connectors

This chapter includes:

- Configuration and data files required.
- Execute DIH Connectors

9.1 Configuration and Data files required

This section details the configuration files and data files required before execution of AHC Connectors..

9.1.1 Chart of Account to OFSAA Dimension Mapping files

AHC requires customers to map Chart of Accounts segments to OFSAA attributes. These mappings are used to load data to OFSAA staging area during AHC 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 AHC view GL_OFSAA_LEDGER_COA_V are mapped for the specific OFSAA dimension. AHC accommodates up to 30 segment in the COA definition.

Currently, this mapping is partially updated in a csv file named <u>ah gl seg ofsaa map.csv</u> (for GL Balances) and <u>ah sr seg ofsaa map.csv</u> for SR Balances.

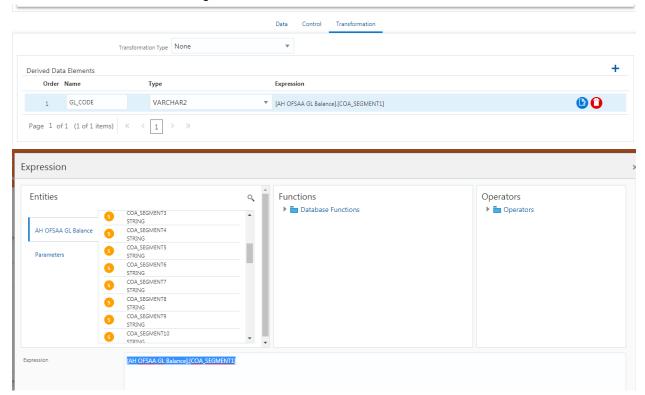
File names have to be retained and COA Segment OFSAA column mappings can be updated accordingly. These files has to be places in EDS path before executing.

Sample entries assuming that Ledger Name is <LEDGER_NAME> and COA structure is made up of eight segments namely Legal Entity, Gaap Code, Product Code, Currency Code, Common Chart of Account Code, Organisation Unit Code, Branch Code and Account as mentioned in the following table.

LEDGER_NAME	SEGMENT_ID	OFSAA_DIM
<ledger_name></ledger_name>	COA_SEGMENT1	GLACCOUNT
<ledger_name></ledger_name>	COA_SEGMENT2	PROD_CODE
<ledger_name></ledger_name>	COA_SEGMENT3	GAAP_CODE
<ledger_name></ledger_name>	COA_SEGMENT4	LEGAL_ENTITY
<ledger_name></ledger_name>	COA_SEGMENT5	CURRENCY_CODE
<ledger_name></ledger_name>	COA_SEGMENT6	ORG_UNIT_CODE
<ledger_name></ledger_name>	COA_SEGMENT7	COMMON_COA
<ledger_name></ledger_name>	COA_SEGMENT8	BRANCH_CODE

If there are any additional column which have to be mapped to COA Segment then corresponding OFSAA_DIM should be mentioned against the SEGMENT_ID in the file and derived column must be added and mapped in connector.

Apart from above mappings, GL_CODE(Transformation Column) Expression in EDD **AH OFSAA GL Balance** of **AH GL Balances Insert Con** must be edited to point to respective COA_SEGMENT Column as shown in the following.



9.2 GL and XLA csv files from AHC

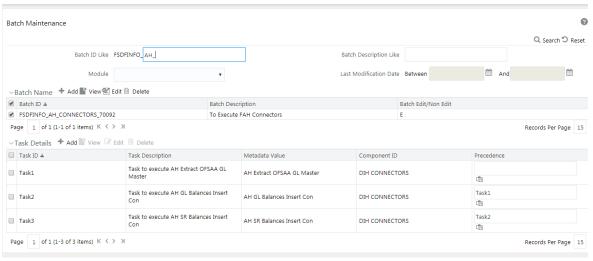
The following two files have to be extracted from AHC along with Header Names and must be placed in EDS path before executing Connectors:-

- ah_gl_balance.csv from fusion.gl_ofsaa_balances_v(All columns)
- 2. ah_sr_balance.csv from fusion.xla_ofsaa_balances_v(All Columns)

9.3 Executing AHC Connectors

To extract GL balances and SR Balances from AHC after performing the previous steps execute the following below steps:

- 1. Publish AH Extract OFSAA GL Master, AH GL Balances Insert Con and AH SR Balances Insert Con Connectors.
- 2. Before executing ensure to delete ah_gl_master.csv file from EDS path if present.
- 3. Go to batch Orchestration and search for auto generated batch AH Connectors.



- 4. Select AH GL Balances Insert Con Task and click Edit.
- 5. In Batch Parameters specify PERIOD_NAME for which GL Balances have to be extracted. For example PERIOD_NAME='Aug-18'.
- 6. Repeat step 3 and 4 for AH SR Balances Insert Con.
- 7. Go to Batch Execution and search for AH_Connectors and specify FIC_MIS_DATE and Execute the batch.

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



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