

# Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service

User Guide

Release 8.0.7.0.0

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Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service

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## Document Control

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04	March 2020	Correction to Integration Configuration steps
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# 1 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
- Acronyms
- Reference

## 1.1 Scope of the Guide

This user guide explains the features and functions of Oracle Financial Services Data Foundation (OFSDF) Integration with Accounting Hub Cloud Service (AHCS). Setup and configuration of the system, pre-packaged business or functional content, technical integration aspects and guidelines on the usage of the system are explained in detail.

Note that additional setup and configuration needs to be performed in AHCS to support accounting rules, journals, and general ledger. Refer to Oracle ERP Cloud documentation on AHCS for details in this regard.

## 1.2 Intended Audience

This manual is intended for the following audience:

- Technologists: Technical specialists who deal with setup and configuration of the interface between Data Foundation and Accounting Hub Cloud Service, and those responsible for the care and maintenance of the OFSAA instance.
- Business Users: Functional specialists who deal with actuarial sciences, risk management, accounting or a combination of these, seeking to understand details of the interface between Data Foundation and Accounting Hub Cloud Service.

## 1.3 Prerequisites

- Refer to the [DIH Installation Guide](#) for details on OFSAA components, Oracle applications, and environment that constitute technical prerequisites to deploying and using FSDF Integration with AHCS.
- User credentials set up by an authorized user is required before you can access the solution through its user interface.

## 1.4 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>.

## 1.5 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

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

## 1.6 Related Information Sources

Along with this user manual, you can also refer to the following documents in [OHC](#) 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
- Oracle Financials Cloud - Implementing Accounting Hub Guide
- Oracle Financials Cloud - Accounting Hub Best Practices Guide

## 1.7 Acronyms

Acronym	Description
ADI	Application Data Interface
AHCS	Accounting Hub Cloud Service
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 / Sub Ledger Application
UI	User Interface
UCM	Universal Content Manager

## 1.8 Reference

- [Sub Ledgers and Configurations](#)
- [SLA Template Validations](#)
- [Extract Connectors Structure](#)
- [Insert Connectors Structure](#)
- [SLA Coverage](#)
- [Pre-packaged Sub Ledger Configurations](#)



- [Connectors Structure](#)
- [List of Seeded Product Codes](#)

## 2 Introduction

### 2.1 About 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 application 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 domains. It includes many applications such as Profitability Management, Asset Liability Management, Customer Insight, and Risk Management.

### 2.2 About Accounting Hub Cloud Service (AHCS)

AHCS is an accounting integration and reporting platform in oracle cloud that includes products, such as sub-ledger 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 the source system.

### 2.3 Objectives

Integration of AHC and OFSAA provides a basis for a unified finance and risk architecture to the financial services industry. The benefits of 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 to transform 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 is 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 the 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.

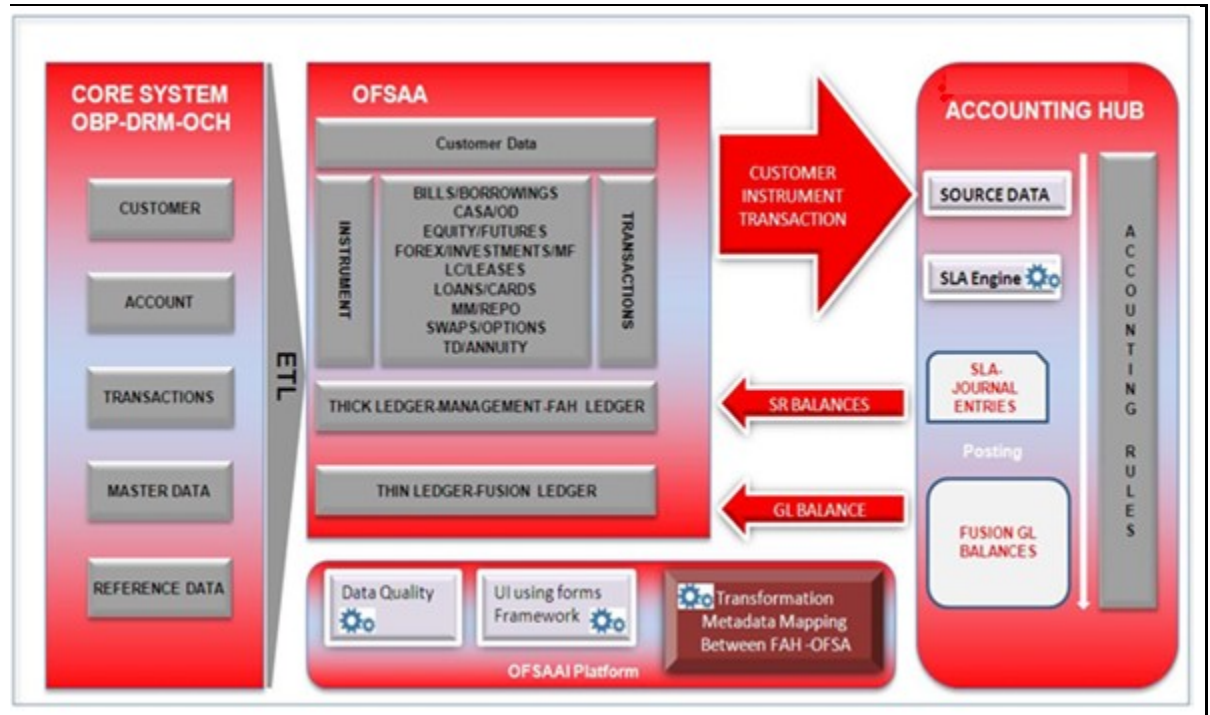
## **2.4 About Financial Services Data Foundation Integration with Accounting Hub Cloud Service**

The following are the core constituents or functions of FSDF Integration with AHCS:

- Pre-configured Sub Ledger Applications:
  - Retail Banking
  - Commercial Banking
  - Investment Banking
  - Islamic Banking
  - Treasury
  - Core Banking (using pass-through)
- Automated population of the source system and Sub Ledger Application registration with AHCS.
- The configurable mechanism for grouping events data.
- The pre-built mechanism for publishing events information to Accounting Hub Cloud Service.
- User interface allowing configuration of Sub Ledger Applications and associated events information.
- The pre-built mechanism to ingest balance information against the AHCS chart of accounts (GL Balance) and with Supporting Reference information (SR Balance).

## 2.5 OFSAA-AHC Interface Architecture Overview

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

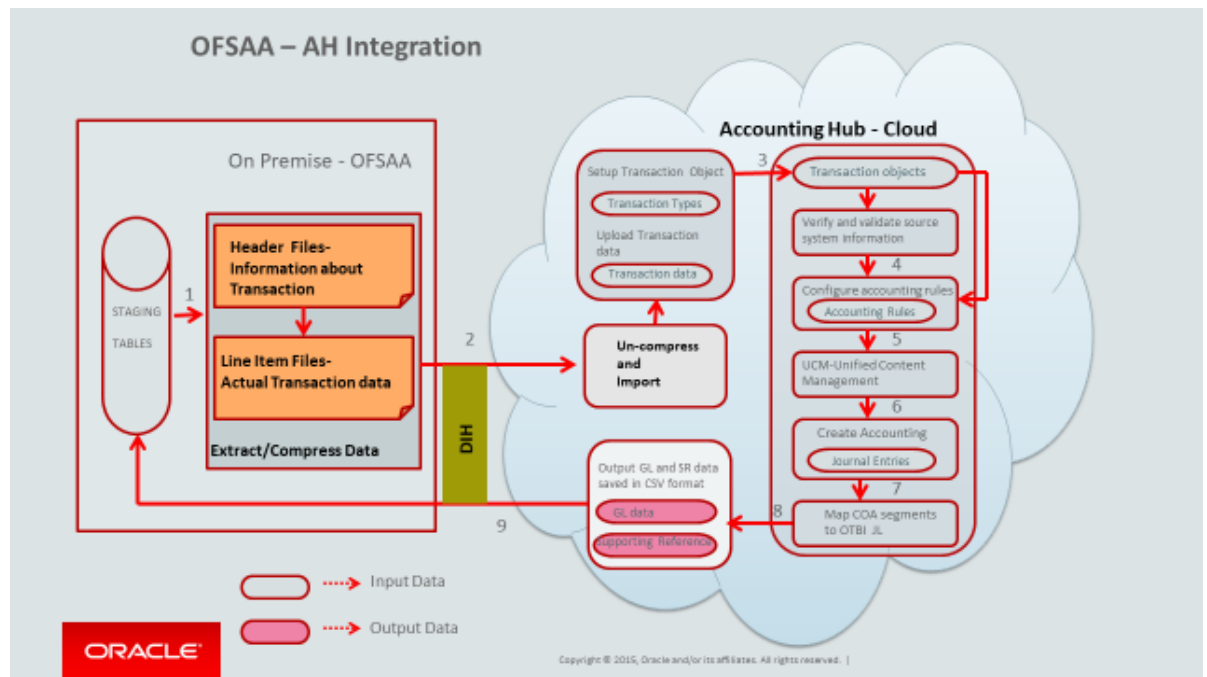


The data flow between OFSAA and AHC is bi-directional. OFSAA includes all the account, contract and transaction information that AHC needs to generate for its Sub Ledger accounting. Additionally, General Ledger and supporting reference balances are required by the various products under the OFSAA suite.

Banking 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, is available for all downstream applications.

## 2.6 OFSAA – AHC Integration Overview



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

The integration consists of the following processes:

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

AHCS provides a macro-enabled SLA XL template for integrating third-party systems. This template is deployed as part of FSDF Integration with AHCS.

FSDF Integration with AHCS automates the population of the SLA XL template. Post-deployment you must select one of the pre-packaged SLA definitions in FSDF Integration with AHCS and click the Download Template button. FSDF Integration with AHCS makes a copy of the SLA XL template with Source System details (which is the Sub Ledger details) and then populates with Transaction types. Header and Line definitions are pre-packaged in FSDF Integration with AHCS. 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 FSDF Integration with AHCS 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 the “source sheet” click the Generate Zip button. The macro generates a zip file with the same name and in the same location as the 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 FSDF Integration with AHCS.

Refer section [Registering with AHCS](#) for more details.

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

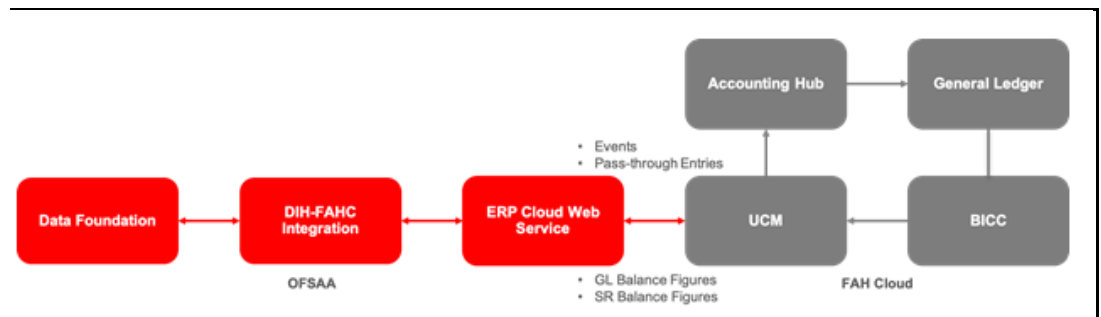
Post AHC configuration, OFSAA batches are performed using pre-packaged AHC connectors, extract transaction data from FSDF stage tables in ASCII format. The output files are zipped and pushed to AHC through UCM (Universal Content Manager) and the general entries are posted.

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.

## 2.7 Data flow for FSDF Integration with AHCS

- Transactions and pass-through accounting information are collated into Data Foundation through DIH Foundation.
- If required, said data is standardized in Data Foundation.
- DIH – Accounting Hub integration extracts relevant data from Data Foundation and prepares ZIP file, with header and line details, and metadata.
- DIH – Accounting Hub integration invokes ERP Cloud web service over REST APIs to a byte-stream ZIP file to ERP Cloud Universal Content Manager.
- Refer <https://docs.oracle.com/en/cloud/saas/financials/18b/faiac/oracle-accounting-hub-cloud-overview.html#FAIAC307871> for specifics on Accounting Hub Cloud Service.
- Extracts of GL and supporting reference balance figures from Accounting Hub Cloud Service are configured and scheduled in BI Cloud Connector console, as detailed here: <https://docs.oracle.com/en/cloud/saas/applications-common/r13-update17d/biacc/biccc-overview.html>
- GL and SR balance extracts so configured in BICC produce output files and put those in UCM.
- DIH – Accounting Hub integration invokes ERP Cloud web service over SOAP to byte-stream file produced by BICC above to OFSAA. Refer sections 4.3 and 9 in [FAH User Guide](#) for details.
- DIH – Accounting Hub integration loads GL and SR balance figures into appropriate Staging entities in Data Foundation as per mapping information detailed [FAH User Guide](#).



### 3 Mapping the OFSAA User to AHC User Groups

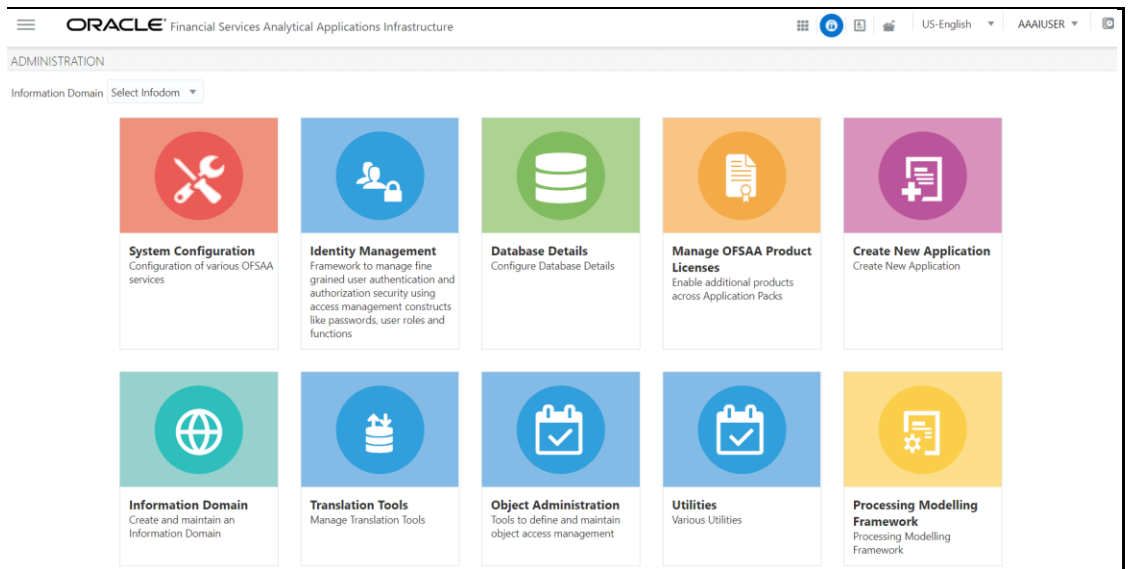
User- User Group Map enables you to map user(s) to a specific user group, which in turn is mapped to a specific Information Domain and role. Every user group mapped to the infodom must be authorized. Else, it cannot be mapped to users.

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 [OFSAAI User Guide](#).

Pre-packaged User Groups for OFSAA - AHC Interface

User - User Group Map	
<input type="checkbox"/>	User ID
<input type="checkbox"/>	GUEST
<input type="checkbox"/>	OFSAD
<input type="checkbox"/>	OFSAN
<input type="checkbox"/>	OFSDM
<input type="checkbox"/>	OFSOP
<input type="checkbox"/>	SYSADMN
<input type="checkbox"/>	SYSAUTH



#### Identity Management

ORACLE Financial Services Analytical Applications User: System Administrator

- Security Management
- User Administrator
- User Maintenance
- User Group Maintenance
- User - User Group Map
- User Group Domain Map
- User Group Role Map
- User Group Folder Role Map
- User Reinststate
- System Administrator
- User Activity Report
- User Profile Report
- Enable User

### User - User Group Map

Search and Filter

User ID  Name

1 - 4 / 4

User ID	Name
<input type="checkbox"/> GUEST	Guest Login
<input checked="" type="checkbox"/> OFSAD	OFSAD
<input type="checkbox"/> SYSADMIN	System Administrator
<input type="checkbox"/> SYSAUTH	System Authorizer

Records Per Page 4

1 - 10 / 28

#### OFSAD Map

Mapped Groups	
AHC FSDf Admin	SMS
AHC FSDf Analyst	SMS
AHC FSDf Operator	SMS
AHC OI DF Admin	SMS
AHC OI DF Analyst	SMS
AHC OI DF Operator	SMS
DIH Admin	SMS

[User - User Group Map](#) > User - User Group Map

Search

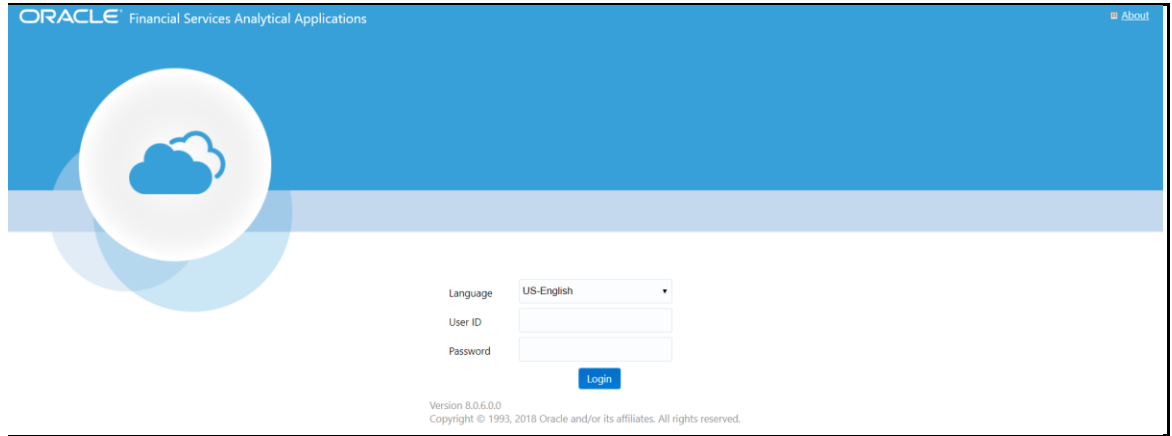
User Groups

Members	Selected Members
FAH Analyst	AHC FSDf Admin
FAH Admin	AHC FSDf Analyst
Data Controller	AHC FSDf Operator
DRM Operator	
DRM Analyst	
DRM Admin	
DIH Execution	
DIH Data Mapping	
DIH Admin	
AHC OI DF Operator	
AHC OI DF Analyst	
AHC OI DF Admin	



# 4 Logging into AHC-OFSAA Interface

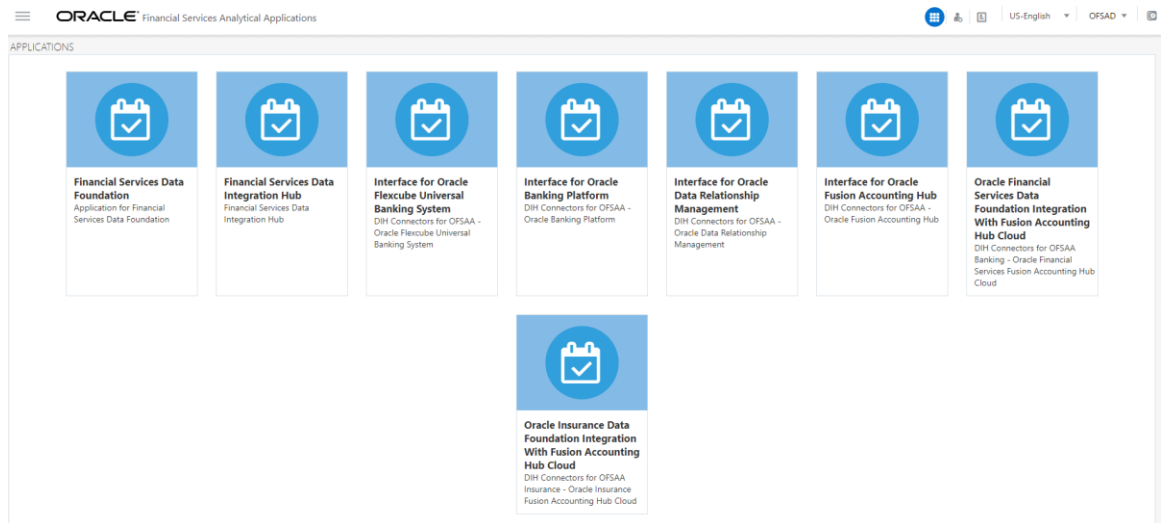
Access the AHC-OFSAA Interface using your login credentials (User ID and password). The built-in security system ensures that you are permitted to access the window and actions based on the authorization only.



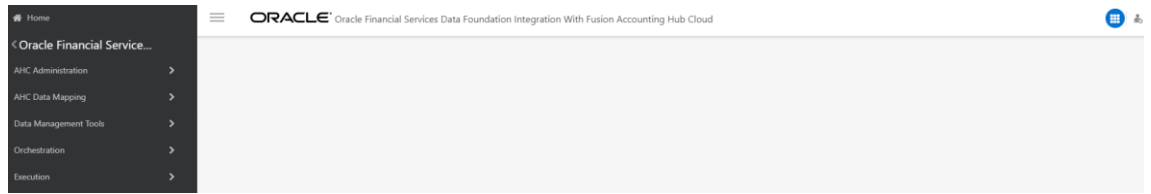
After logging into the application, select Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service.

## NOTE

You must be mapped at least any one of the AHC user groups.



The AH-OFSAA landing page is displayed.



## 5 Component Details

The following components are included in this interface:

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

### 5.1 Packaged Sub Ledger Application Information

The following Sub Ledger Applications are pre-defined:

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

The list of product types covered under each Sub Ledger Application is provided in the file [SLA Coverage](#).

Each Sub Ledger Application is represented as an event class, which can have one or more instruments such as Loans, Annuities, and Investments and so on. For each event class, there are predefined accounting events based on expected activities for the Sub Ledger Application.

Sub Ledgers can have two types of templates.

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

The rules vary based on the templates used.

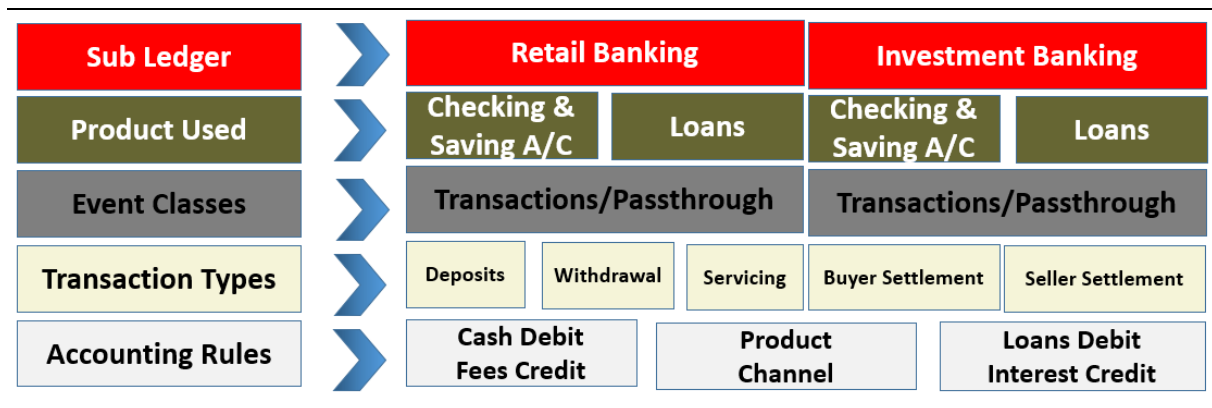
Sub Ledger Application	Type
Retail Banking	Transaction based
Commercial Banking	Transaction based
Investment Banking	Transaction based
Treasury	Transaction based
Islamic Banking	Transaction based
Core Banking PT	Based on Pass-through accounting entries

Sub Ledger Information has transaction types mapped, along with the list of transaction and line attributes defined for each Sub Ledger Application.

The FSDF data model is registered with AHC using the Excel template. 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.

You can use these pre-packaged Sub Ledgers or create custom Sub Ledger Applications in the Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service.

An example of the structure for accounting templates for OFSAA integration is illustrated here.



The Retail Banking Sub Ledger 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 Pass-through entries. Note that pre-packaged Sub Ledger Applications use only one event class per Sub Ledger.

Various transaction types are registered for each of the event classes. For checking and savings accounts, transaction types include deposits, withdrawals, and servicing. For loans, transaction types include originations, payments, and closings. These transaction types and templates can be later used to configure rules in Accounting Hub Cloud Service.

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 Sub Ledger Applications provided for the integration. Product and channel are examples of potential supporting references.

## 5.2 Registering with AHCS

AHCS uses a macro-enabled XLS template to facilitate registration of transaction or event types and creation of a catalog of transaction information, towards preparing accounting rules. The template is defined by AHCS and made available as an XLSM file from your AHCS instance. FSDF Integration with AHCS will populate it with SLA specifications in an automated fashion.

Upon initial use (that is, when you have freshly installed FSDF Integration with AHCS) and after user-configured changes to any aspect of Sub Ledger Applications or their events information (event types, header information, line information or SLA packaging), the following actions need to be undertaken for all or all affected SLAs.

1. Access your instance of AHCS and download the template file `XlaSourceSystemSetup.xlsm`. Refer to the AHCS user guide for details on how this can be achieved.

The sheets in this XLSM file are as follows:

- a. **Instructions:** This sheet provides a brief overview of the template structure alongside instructions to fill in details and create the final ZIP file which is to be uploaded to your AHCS instance.
- b. **Source System:** This sheet has sections that capture the source system name and transaction types, which are used to register the source system in AHCS.
  - **Source System** – Name and short name are mandatory. This goes as the name for Source, Sub Ledger, Journal Source, Journal Category, and Process Category.

- Transaction Types – Name and short name for all the event/transaction types must be mandatorily provided in this field.
  - There are 'Validate' and 'Generate ZIP' buttons available on the Source System sheet. These support functions are detailed in section [Registration of SLAs with Accounting Hub Service](#).
- c. **Transaction Information:** This sheet captures the attributes which you wish to use as header attributes in AHCS. You must enter the Name, Short Name, Domain and Journal Display. By default, three mandatory attributes are displayed, which cannot be removed - these are highlighted in grey.
- d. **Line Information:** This sheet captures the attributes which you wish to use as line attributes in AHCS. You must enter Name, Short Name, Domain and Chart of Accounts Display. By default, three mandatory attributes are displayed, which cannot be removed - these are highlighted in grey.

Refer to AHCS documentation for further details.

## 5.3 DIH Connectors

### 5.3.1 Extract Connectors

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

There are two External Data Descriptors (EDD) that are created for each Sub Ledger that is saved in FSDF Integration with AHCS. 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 Sub Ledger, respectively. The attributes of the Sub Ledger, 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 Sub Ledgers. EDDs and connectors are already provided for pre-packaged Sub Ledgers.

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 is a runtime parameter populated automatically from Sub Ledger details.
- **SLA\_CODE** Sub Ledger Code or Short Name is a runtime parameter populated automatically from Sub Ledger details.
- **AH\_GAAP\_CODE** is a constant Parameter to be updated in DIH Parameters section before executing batch
- **AH\_LOAD\_RUN\_ID** Unique task ID which is auto picked while execution of the task
- **AH\_FILE\_DATE** is the Extraction Date whose file format must not be altered.

All Line Connectors accept the following input parameters:

- **FIC\_MIS\_DATE or MIS\_DATE** is the Extraction Date
- **SLA\_CODE** Sub Ledger Code or Short Name is a runtime parameter populated automatically from Sub Ledger details (For example 'RETAIL\_SLA' for Retail Banking)
- **AH\_LOAD\_RUN\_ID** Unique task ID which is auto picked while execution of the task
- **AH\_FILE\_DATE** is the Extraction Date whose file format must not be altered.

For Extract Connectors and mapping details, see the [Extract Connectors Structure](#).

---

## 5.3.2 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 the STG\_GL\_DATA table in OFSAA. This connector accepts these input parameters:
  - **PERIOD\_NAME** Period for which GL data is loaded (For Example - '9-Sep')
  - **FIC\_MIS\_DATE** or **MIS\_DATE** is the Extraction Date
  - **AH\_CONSOLIDATION\_FLAG** Runtime parameter and is a single-digit flag (For Example 'C' or 'S').
- **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** Period for which GL data is loaded
  - **FIC\_MIS\_DATE** or **MIS\_DATE** is the Extraction Date

For Connectors and mapping details, see the [Insert Connectors Structure](#) file section.

## 6 Implementation

### 6.1 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 introduced 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\_ANNUIITY\_TXNS for event-based Accounting and STG\_ACCOUNTING\_ENTRIES for pass-through accounting

### 6.2 Implementation Guidelines

1. 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 FSDF Integration with AHCS screens while configuring the Sub Ledger.
3. Do not execute the connector's batch in FSDF Integration with AHCS till the accounting rules and other required setup are configured.
4. Create connectors with appropriate filters, 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 Sub Ledger. Hence, you must carefully extract the required data for appropriate accounting.
5. If the SLA template is to be reloaded to AHC after changes, you must be careful while replacing the old configuration and must again create the accounting rules accordingly.
6. 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 FSDF Integration with AHCS and AHC:
  - If you add/edit/delete any of the attribute or transaction types in the AHC screens, but do not update the respective changes in the FSDF Integration with AHCS application, integration may fail as data extract files will still have the unchanged structure of DIH.
  - If you add/edit/delete any of the attribute or event type in the FSDF Integration with AHCS screens, but do not download the new template and re-upload it back to AHC application, integration may fail. In this scenario, the AHC application has a

different Sub Ledger 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 the source system/Sub Ledger structure either in FSDf Integration with AHCS or AHC, other application structure must also be changed accordingly. If not, it may lead to integration failure.
8. Through FSDf Integration with AHCS, there is no mechanism to identify those transactions, which is not processed for accounting. You must identify them through AHC screens and re-upload them separately, after making required corrections.

## 6.3 Transaction Object Population

Transaction objects are extracted into Header and Line CSV files and converted to zip format along with the Metadata text file.

1. In Sub Ledger Applications, each Sub Ledger will have Header and Line Objects defined along with Transaction types.
2. Header and Line Connectors are created to extract Header and Line data respectively.
3. Connectors are published and the auto-generated batch is executed.
4. After the successful execution 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 Sub Ledger details.
6. All three files: XlaTrxH.csv, XlaTrxL.csv, and Metadata.txt are auto converted to zip format, which can be uploaded to AHC.

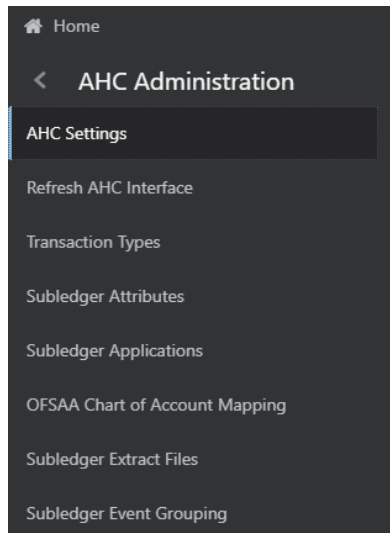


# 7 AHC Administration

## 7.1 AHC Settings

1. Navigate to **Financial Services Data Foundation Integration with Accounting Hub Cloud Service > AH Administration > AHC Settings**.

The **OFSAA - ERP Settings for Accounting Hub (AH)** screen appears.



The **OFSAA - ERP Settings for Accounting Hub (AH)** screen appears.

2. Enter the required information under ERP Details for Accounting Hub and Transaction Template Settings fields.
  - a. Enter the following details under ERP Details for Accounting Hub:

- URL for Accounting Hub Cloud Service:

Enter the URL assigned to you as part of your Oracle ERP Cloud AHCS subscription here. This information is specific to your tenancy on Oracle Cloud and subscription to ERP Cloud AHCS instance.

The URL is in this form:

```
https://<<YourInstance>>/fscmRestApi/resources/latest/erpintegrations
```

Of this URL, the section

“/fscmRestApi/resources/latest/erpintegrations” must be left as it is.

Set <<YourInstance>> as assigned to you as part of your Oracle ERP Cloud AHCS subscription.

The captured URL must resemble this example:

```
https://abc.de.fg.oraclecloud.com//fscmRestApi/
resources/latest/erpintegrations
```

- User ID
  - Enter User Identification assigned to you for AHCS instance here.
- Password
  - Enter the password for your AHCS instance here.
- KeyStore Location:
  - Enter fully resolved file-path for your KeyStore location here.
- KeyStore Password
  - Enter the password for your KeyStore here.
  - Note:
    - The certificate must be imported to KeyStore before connection with AHCS is attempted.
    - KeyStore must be saved in one of the following locations:
      - WEB\_HOME (when ERP Connection Method is set to Option 1)
      - FIC\_HOME (when ERP Connection Method is set to Option 2)
    - See [Importing Certificate into KeyStore](#) section for details on importing Certificate to Keystore.
- ERP Connection Method select,
  - Option 1 – This option uploads SLA events extract into UCM in ERP from the OFSA Web Server. The generated file extract is transferred from OFSA Application Server to OFSA Web Server through SFTP. Choose this option if Oracle Java Required Files (JRF) Template is applied while setting up Oracle WebLogic Server Domain. See Oracle Middleware documentation for details on JRF template and WebLogic Server Domain.
  - Option 2 – This option uploads SLA events extract into UCM in ERP from OFSA Application Server. It is recommended to use Option 2 to avoid the additional step of SFTP between OFSA Servers.

**b. Enter the following details under Transaction Template Settings:**

- Transaction Type Column Name:
  - This is prepopulated with value "TRANSACTION\_TYPE", the auto-generated value for Transaction Type column name in Register Transaction Source System step
  - If the auto-generated value for Transaction Type column name in Register Transaction Source System step is modified, edit pre-populated text and capture assigned column name here.
- Transaction Template:

- Transaction Template refers to the template contained in the XLSM file downloaded from your instance of AHCS to facilitate registration of transaction or event types. Refer section [Registering with AHCS](#) for details.
- Browse and select the transaction template file `XlaSourceSystemSetup.xlsxm` from the downloaded location in the local machine.

c. Click **Save**.

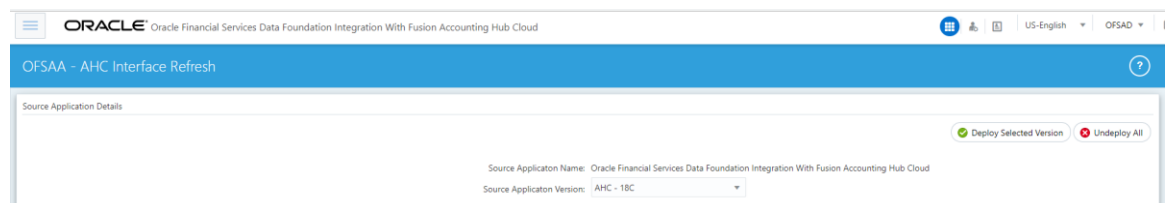
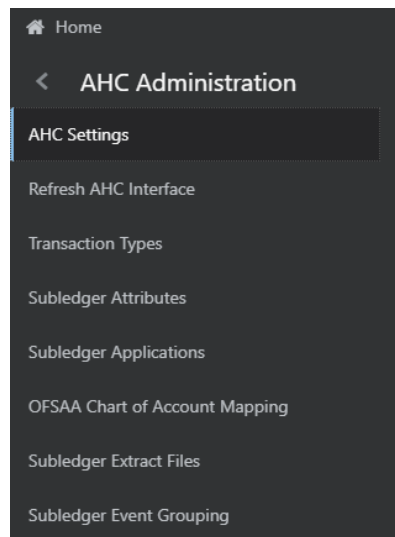
## 7.2 Refresh AHC Interface

### 7.2.1 Deploying Connectors

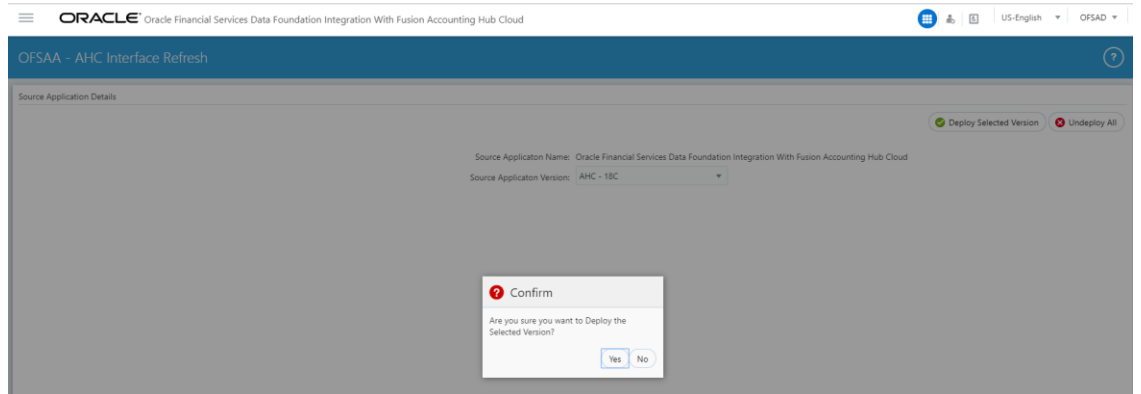
After the pre-requisites are complete, External Data Descriptors and Connectors linking them to Application Data Interfaces, as used for data exchange with AHCS, are ready for deployment through the Refresh AHC Interface menu. These External Data Descriptors and Connectors are listed under the AHC Data Mapping menu once this step is completed.

Perform the following steps:

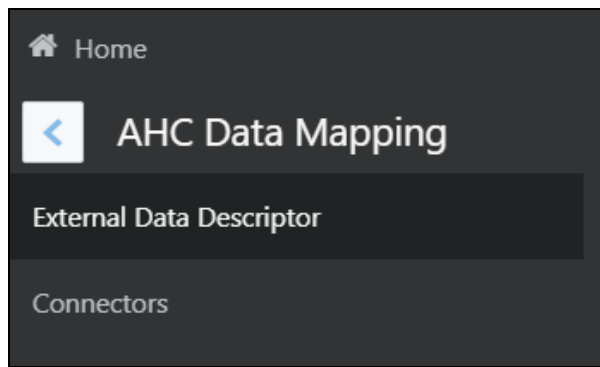
1. Navigate to the AH application interface.
2. Select **AH Administration** and click **Refresh AH Interface**.



3. Select the **Source Application Version** from the drop-down menu.
  - a. This must be the version of AHCS provisioned as part of your subscription.
  - b. If the version of AHCS provisioned to you is not listed, contact Support.
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.

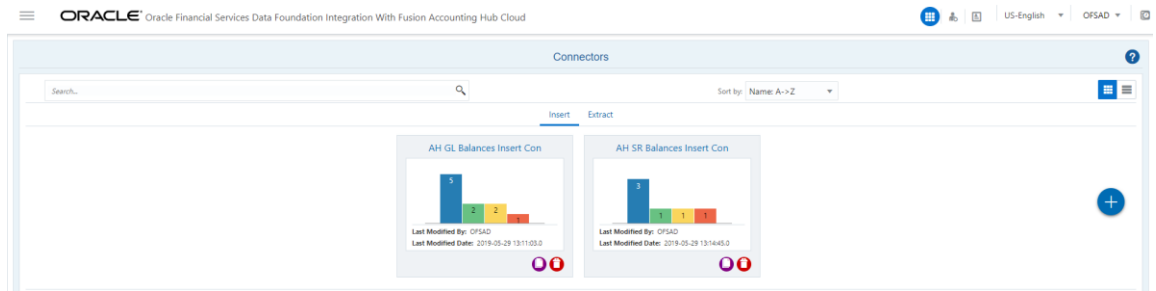


- Once the system confirms successful deployment, you may navigate to **AHC Data Mapping > External Data Descriptor** and **AHC Data Mapping > Connectors** to verify the deployed EDDs and Connectors, as shown in the following screenshots.



Name	Description	External Data Store	Type	Last Modified By	Last Modified Date
AH Banking Tin Header Map	AH Banking Tin Header Map Status: Saved	NTF_AH_FSDP_STAGE_SRC	ORACLE DB	OFSD	2019-05-29 13:16:00
AH Dim GL Account EDD	EDD to source Dim GL Account Status: Saved	NTF_AH_FSDP_STAGE_SRC	ORACLE DB	OFSD	2019-05-29 13:11:00
AH OFSAA GL Balance	AH Custom view for GL Balances Status: Saved	NTF_AH_FSDP_TAR_FILES	FILE	OFSD	2019-05-29 13:11:00
AH OFSAA SR Balance	AH Custom View for SR Balances Status: Saved	NTF_AH_FSDP_TAR_FILES	FILE	OFSD	2019-05-29 13:14:00
AH SLA CBPT C Header	AH SLA CBPT C Header extract to populate attributes of AH SLA CBPT C Header Connector Status: Saved	NTF_AH_FSDP_TAR_FILES	FILE	OFSD	2019-04-30 15:30:00
AH SLA CBPT C Line	AH SLA CBPT C Line extract to populate attributes of AH SLA CBPT C Line Connector Status: Saved	NTF_AH_FSDP_TAR_FILES	FILE	OFSD	2019-04-30 15:30:00
AH SLA CBPT Copy Header	AH SLA CBPT Copy Header extract to populate attributes of AH SLA CBPT Copy Header Connector Status: Saved	NTF_AH_FSDP_TAR_FILES	FILE	OFSD	2019-04-11 17:03:00
AH SLA CBPT Copy Line	AH SLA CBPT Copy Line extract to populate attributes of AH SLA CBPT Copy Line Connector Status: Saved	NTF_AH_FSDP_TAR_FILES	FILE	OFSD	2019-04-11 17:03:00

## AH External Data Descriptor



### AH Connectors

## 7.2.2 Undeploying Connectors

In case there is a need to re-deploy Connectors, they need to be Unpublished, Undeployed and Deployed, post required changes. Undeploy All facility under the AHC Interface Refresh user interface facilitates the undeployment step within this sequence.

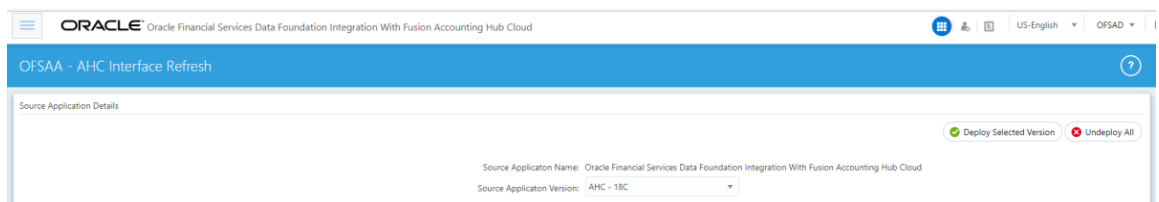
Connectors must be re-deployed only in response to the following situations:

1. Standard Connector definition requires changes or is deployed with changes that need to be maintained.
2. Support has issued instructions to re-deploy Connectors for AHCS integration following or as part of an application patch.

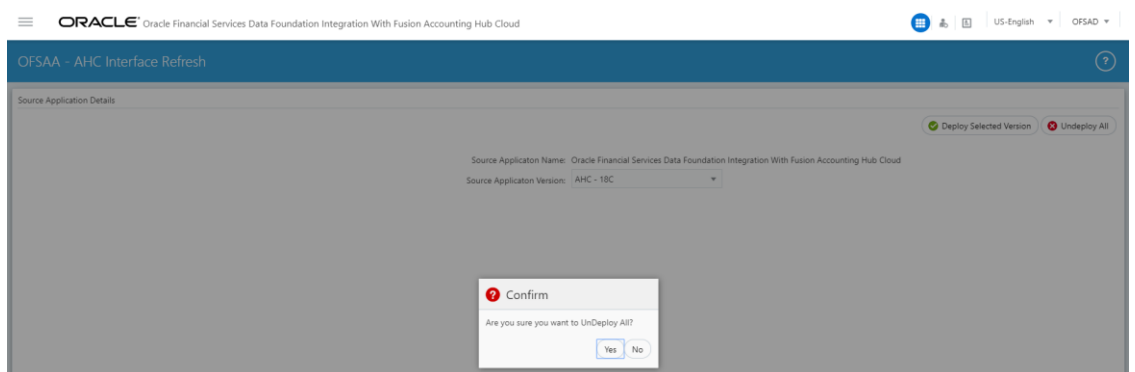
You cannot undeploy Connectors when they are in Published status. To undeploy Connectors, it must be explicitly unpublished. Refer [DIH User Guide](#) for details on unpublishing Connectors.

To proceed with undeploying Connectors:

1. Click Undeploy All. The message, “Are you sure you want to Undeploy All?” appears.



2. Click **Yes** to proceed.



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

**NOTE**

Interface connectors can be Undeployed only if:

1. None of the Interface Connectors is in Published state.
2. The EDDs deployed through the interface version are not used in any Custom Connectors.

## 7.3 Transaction Types

Event or Transaction types, refer to accounting events that are captured when transactions are committed or processed. While creating a Sub Ledger, different transaction 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. Examples of transaction types can be withdrawal, deposits, servicing, fees, charges and so on.

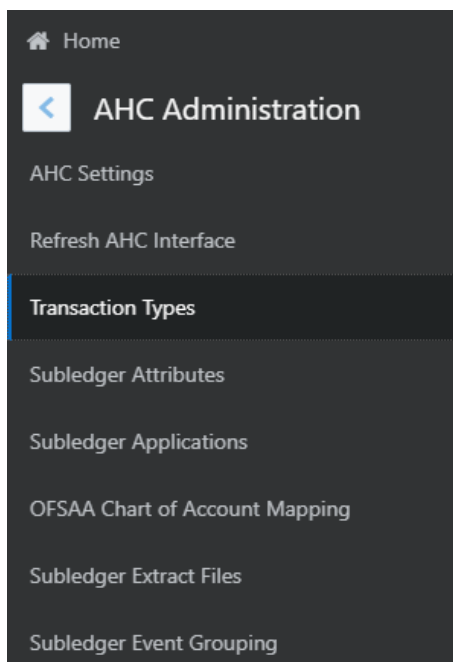
Transaction types are required to collect the transaction data and process it into accounting data necessary to form the Sub Ledger information. Data from different source systems come together and are processed depending on these categories to form ledger information.

**NOTE**

To use pre-packaged Sub Ledgers, you must use only the pre-packaged transaction types in the source system data.

To understand the transaction types:

1. Navigate to the AH application interface.



2. Select AH Administration, and click **Transaction types**.

Transaction Type Name	Transaction Type Short Name	Description
Adjustment	ADJUST	Create accounting for adjustments.
Advance	ADVANC	Create accounting for advances.
Asset Amort	ASSETA	Create accounting for asset amortizations.
Asset Expiration	ASSETE	Create accounting for asset expiration.
Asset Valuation	ASSETV	Create accounting for valuation, including mark to market, of assets.
Asset transfer	ASSETT	Create accounting for asset transfers.
Billing	BILLING	Create accounting for billings.
Buyer Exercise	BUYERE	Create accounting for exercise of options from buyer perspective.
Buyer Settlement	BUYERS	Create accounting for buyer settlements.
Cancel	CANCEL	Create accounting for cancellation of purchases or sales.
Charity Contrib	CHARIC	Create accounting for contribution to charity for late payments.
Close	CLOSED	Create accounting for closings.
Collection	COLLEC	Create accounting for collections.
Conversion	CONVER	Create accounting for instrument conversions.
Core Banking PT	CORE_PT	Create accounting for accounting entries.




A list of pre-packaged transaction types is displayed on the screen, which you can map with Sub Ledgers accordingly. You cannot edit or delete these pre-packaged transaction types.

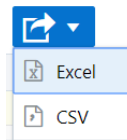
3. You can search for Transaction Type Name or Short Name. Enter a part or full name and click the search button to get the filtered result.
4. Under Summary, you can Add, Delete, View or Edit the events.
5. Click **+Add**. The transaction types screen appears.
6. Enter the following details to create a new event and click Save.

- d. Transaction Type Name
- e. Transaction Type Short Name
- f. Description
- g. Passthrough

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

Field Name	Limitations/Validations
Transaction Type Name	<ul style="list-style-type: none"> <li>▪ The name must not have special characters.</li> <li>▪ Only alphanumeric characters and spaces are allowed.</li> <li>▪ Must not be more than 15 characters.</li> <li>▪ The name must not start or end with space.</li> <li>▪ It must be unique.</li> </ul>
Transaction Type Short Name	<ul style="list-style-type: none"> <li>▪ Short Name must have only Uppercase, numbers and underscores.</li> <li>▪ Short Name must start only with an uppercase or a number.</li> <li>▪ It cannot have special characters and space.</li> <li>▪ Must not have more than 15 characters.</li> <li>▪ It must be unique.</li> </ul>

7. Click  **Delete** if you wish to delete a transaction.
8. Click  **View** to view the details of the transaction type.
9. Click  **Edit** to edit the transaction type details.



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

During SLA configuration, the required transaction types from this list can be mapped to the defined SLA.

**NOTE**

It is not possible to edit or delete the transaction types, which are pre-packaged in the application as well as those, which are mapped to a Sub Ledger. All transaction types lists are stored in the table FSI\_ACCNTING\_EVENT\_TYPE\_MASTER.

## 7.4 Sub-Ledger Attributes

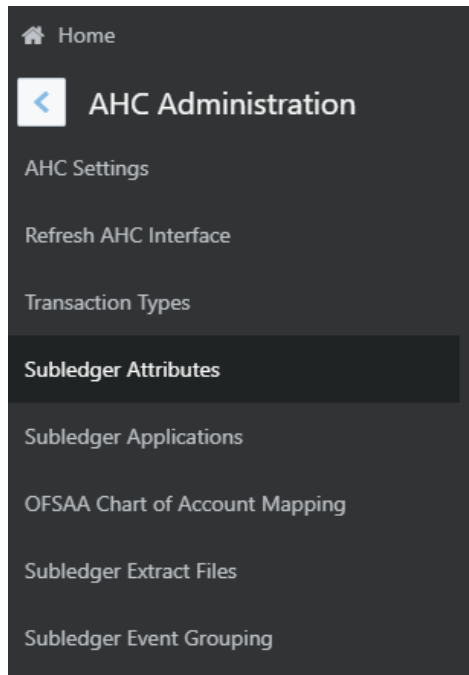
The sub-Ledger Attributes user interface provides a list of seeded header and line attributes, which can be mapped to an SLA while defining it. These attributes cannot be edited. You can also add more attributes to the list of attributes, which can be mapped to an SLA during SLA configuration. The ledger balances can be calculated based on these sub-ledger attributes. To accommodate custom attributes, there is an option to add custom attributes that can vary from user to user to configure custom sub-ledger. These custom attributes can help in creating rules and extracting ledger balances in a required way.



## 7.4.1 Adding a Sub-Ledger Attribute

To add a Sub Ledger Attribute, perform the following steps:

1. Navigate to **AH Administration > Sub Ledger Attributes**.




The Sub Ledger Attributes screen appears with a list of seeded data with Logical and Physical Name.

ORACLE Oracle Financial Services Data Foundation Integration With Fusion Accounting Hub Cloud

Subledger Attributes

Logical Name	Domain	Physical Name	Type	Event Class
Account Branch Code	Text	ACCT_BRANCH_CODE	Line	Passthrough
Account Number	Text	ACCOUNT_NUMBER	Header	Both
Account Product Code	Text	ACCT_PROD_CODE	Line	Passthrough
Account Reversal Indicator	Text	REVERSAL_IND	Line	Transaction
Authorized By	Text	AUTHORIZED_BY	Line	Passthrough
Batch Code	Text	BATCH_CODE	Header	Passthrough
Branch Code	Text	BRANCH_CODE	Line	Both
Branch Code	Text	BRANCH_CODE	Header	Transaction
Business Unit Code	Text	BUSINESS_UNIT_CODE	Line	Transaction
Business Unit Code	Text	BUSINESS_UNIT_CODE	Header	Both

2. Click  to add a new attribute. The Add Attribute screen appears:

### Add Attribute

Enter 30 or fewer characters

Logical Name \*

Physical Name \*

Domain

Text
▼

Attribute Type

Header
▼

Transaction/Passthrough

Transaction
▼

✓ Save

✗ Close

3. Enter the Logical and Physical Name. Physical Name can have only upper case, numbers and alphabets.
4. Select the Domain, Attribute Type and Transaction/Passthrough details from the drop-down list. Transaction/Passthrough is the type of sub-ledger, whether to use this attribute for transaction type of sub-ledger or passthrough type of sub-ledger.  
  
If the new attribute added is a Header Type, it appears in the Transaction Information. Whereas, if the new attribute added is a Line Type, it appears in the Line Information in SLA.
5. Click **Save**.

**NOTE** You can delete only a new attribute added but not a seeded attribute. In case the added attribute is already mapped in SLA and saved then this cannot be deleted.

## 7.5 Sub-Ledger Applications

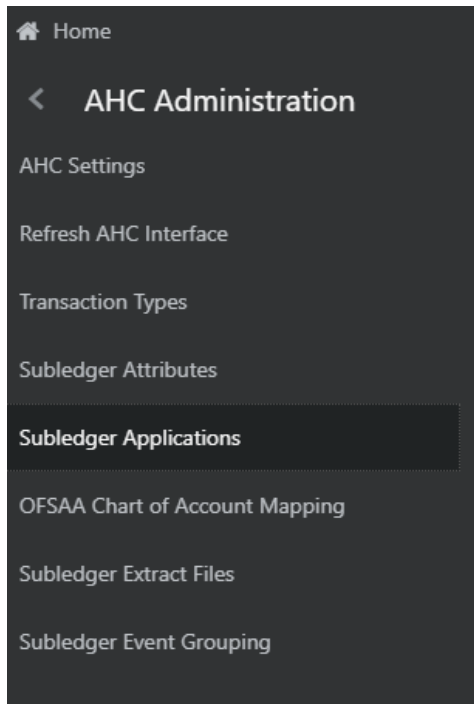
The goal of Sub Ledger accounting is to generate journal entries for transactions that occur in Sub Ledgers. To generate general ledger balances, it is very important to create journal lines and Sub Ledger information. Sub Ledger configuration helps transactional data to be transformed into GL account-level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

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

### 7.5.1 Sub-Ledger Application Summary

To understand the Sub-Ledger Application summary screen:

1. Navigate to the AHC application interface.



2. Select **AHC Administration**, and click **Sub-Ledger Application**.



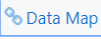

Subledger Name	Subledger Short Name	Description
CBPT C	CBPT_C	Subledger CBPT C
CBPT Copy	CBPT_COPY	Subledger CBPT Copy
Com Bank	COM_BANK	Subledger Com Bank
Commercial Banking	COMMERCIAL_SLA	Subledger Commercial Banking
Copy Core B	CPY_CORE_B	Subledger Copy Core B
Copy Core C	CPY_CORE_C	Subledger Copy Core C
Core Bank A	CORE_BANK_A	Subledger Core Bank A
Core Bank Copy	CORE_BANK_COPY	Subledger Core Bank Copy
Core Banking PT	CORE_BANKING_PT	Subledger Core Banking Passthrough
Investment Banking	INVESTMENT_SLA	Subledger Investment Banking
Islamic Banking	ISLAMIC_SLA	Subledger Islamic Banking
New Sla	NEW_SLA	
Retail Banking	RETAIL_SLA	Subledger Retail Banking
Retail Copy	RETAIL_COPY	Subledger Retail Copy
Retail for Pair	RETAIL_FOR_PAIR	Subledger Retail for Pair

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

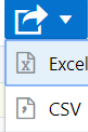
**NOTE** Pre-packaged Sub Ledgers are not editable through AHC Sub-Ledger screens.

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 **Edit** the Sub-Ledger details.

**NOTE** It is possible to publish or unpublish connectors for the pre-packaged Sub Ledgers.


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

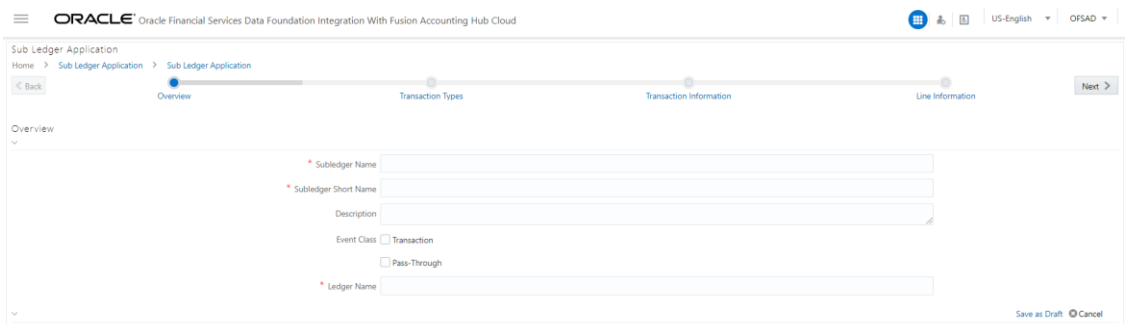
**NOTE** It is mandatory to manually validate the template and create a zip file, which must be uploaded to the AHC cloud environment. In case of errors during validation, update the required changes in the DIH screens and then download the template again. See the [SLA Template Validations](#) section for more information. Sub Ledgers saved are stored in the table FSI\_SLA\_MASTER.

14. Click Export  to move the summary data to an Excel or CSV format.

## 7.5.2 Adding a Sub-Ledger Application

To add a Sub-Ledger:

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



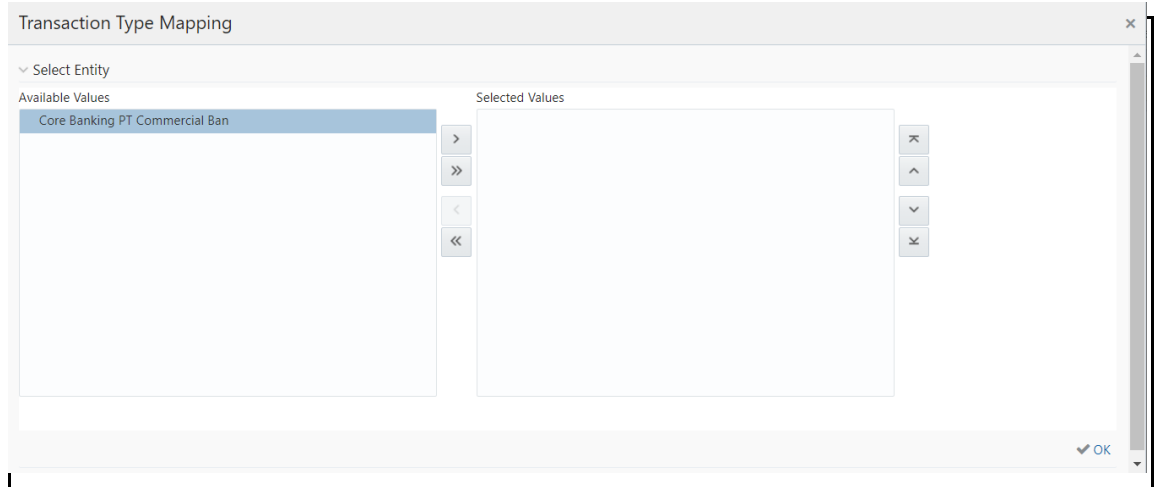
2. Under Overview, enter the following details:
  - a. Sub Ledger Name
  - b. Sub Ledger Short Name
  - c. Description
  - d. Event Class
  - e. Ledger Name




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

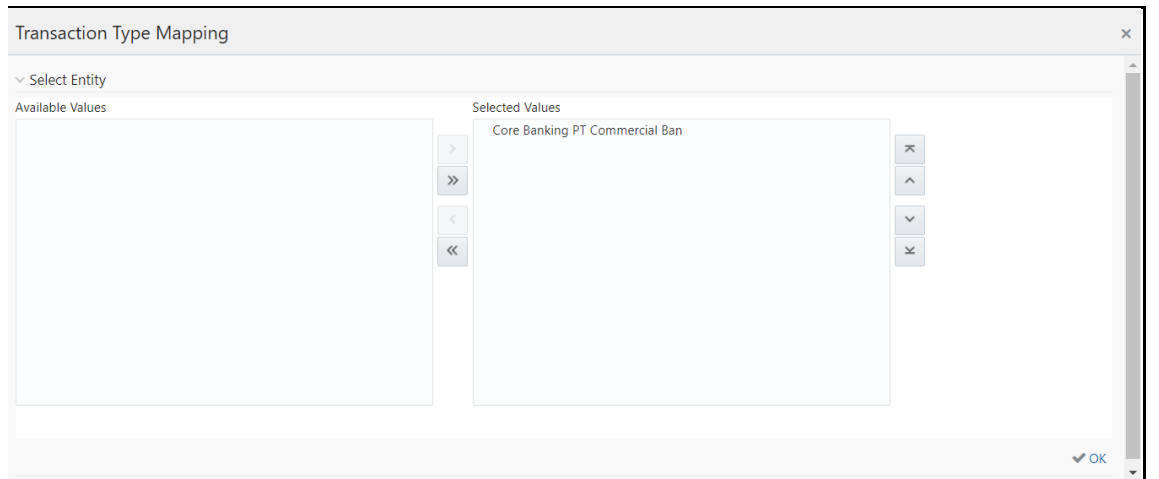
Field Name	Limitations/Validations
Sub Ledger Name	<ul style="list-style-type: none"> <li>▪ The name must not have special characters.</li> <li>▪ Only alphanumeric characters and spaces are allowed.</li> <li>▪ Must not have more than 15 characters.</li> <li>▪ The name must not start with space.</li> <li>▪ It must be unique.</li> </ul>
Sub Ledger Short Name	<ul style="list-style-type: none"> <li>▪ Short Name must have only Uppercase, numbers and underscores.</li> <li>▪ Short Name must start only with an uppercase or a number.</li> <li>▪ It cannot have special characters and space.</li> <li>▪ Must not have more than 15 characters.</li> <li>▪ It must be unique.</li> </ul>
Event Class	Can select one or both the options.
Ledger Name	<p>Must not exceed 100 characters.</p> <p>Change the Ledger name to the required name, for the pre-packaged Sub Ledgers, which by default has 'Default Ledger' as the input name.</p>

3. Click **Save as Draft**. The message, "Sub Ledger draft saved successfully" appears.
4. Click **Ok**. The Transaction types screen appears.
5. Under Transaction types, perform the following steps:
  - a. Click [Transaction Type Mapping](#). The Transaction Type Mapping screen appears. All transaction types that have been created as part of Transaction types, along with the pre-packaged list of transaction types screen appear here on the LHS.

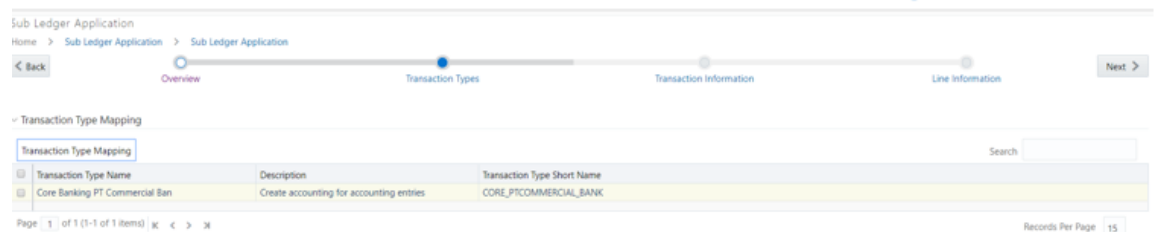
**NOTE** Transaction types are filtered based on the Event Class selected for the Sub Ledger. Transaction Type to Sub Ledger mappings is stored in the FSI\_SLA\_EVENT\_TYPE\_MAP table.



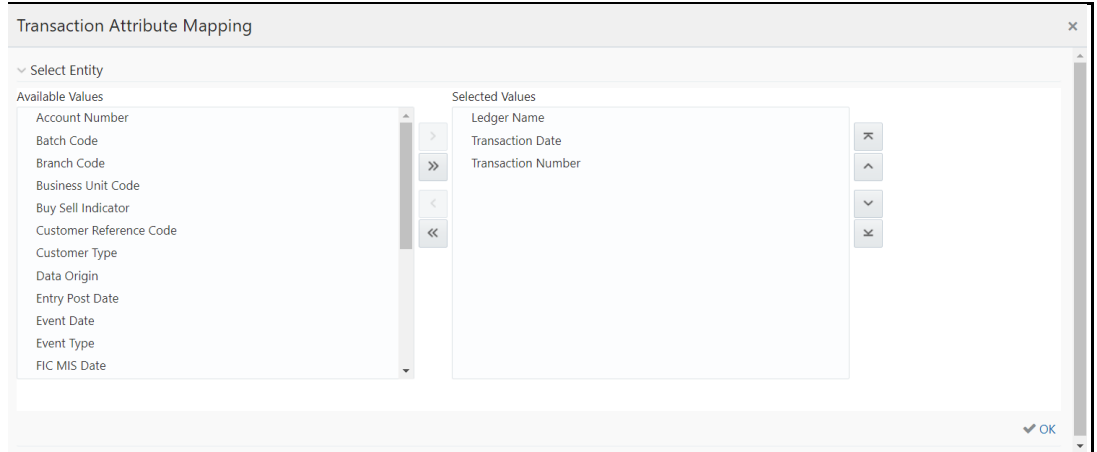
- Click  to move the required entities to the list of the selected values.
- Click  to move all the entities to the list of the selected values.
- You click  to move the entities up and down.
- After the entities are selected, click OK.




The selected values are now displayed under Transaction Type Mapping.






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



- a. The list of transaction attributes is displayed. These are seeded from the FSI\_SLA\_ATTR\_MASTER table.
- b. Ledger Name, Transaction Date, and Transaction Name are selected by default.

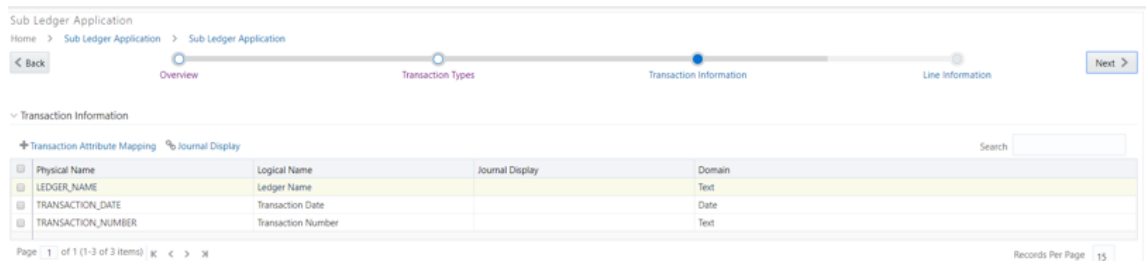
c. Click  to move the required entities to the list of the selected values.

d. Click  to move all the entities to the list of the selected values.

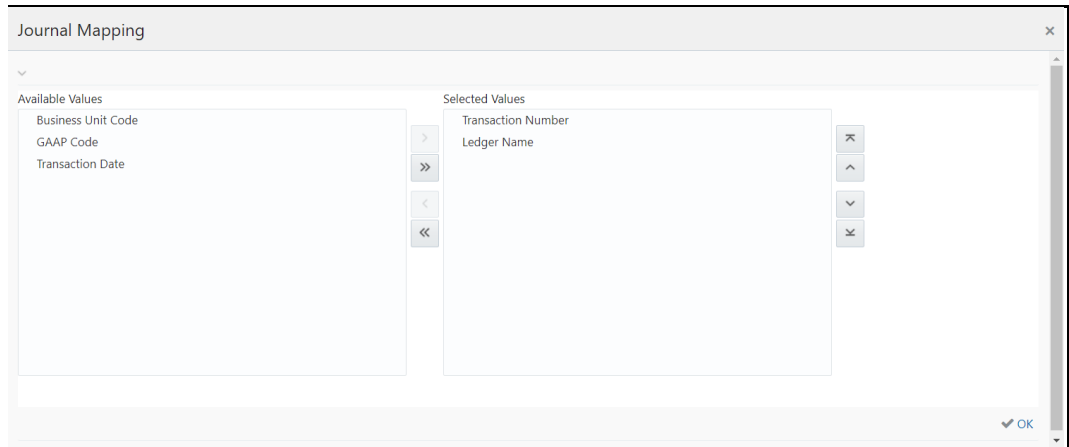
e. You click   
  
 to move the entities up and down.

f. After the entities are selected, click OK.



The selected values are now displayed under Transaction Information.




g. If you wish to display these attributes as part of journal lines, click [Journal Display](#). The Journal Mapping screen appears.




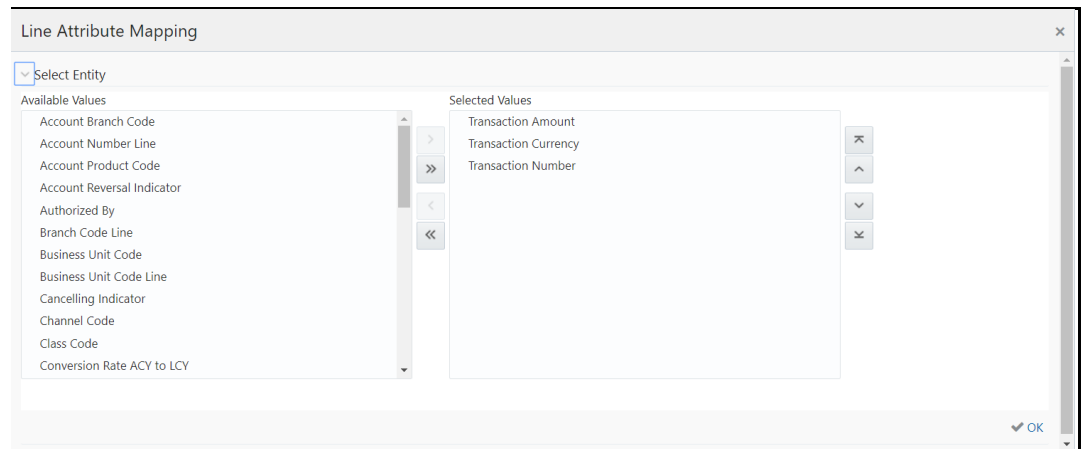
**NOTE** You cannot assign a journal display as YES to Ledger's name.

- a. Click  to move the required entities to the list of the selected values.
- b. Click  to move all the entities to the list of the selected values.




- c. You click  to move the entities up and down.
- d. After the entities are selected, click OK.
- e. Click Next.


7. Under Line Information, perform the following steps:
  - a. Three mandatory attributes: Transaction Amount, Transaction Currency, and Transaction Number are selected by default and cannot be edited.
  - b. Click  [Line Attribute Mapping](#) . The Line Attribute Mapping screen appears.




- c. The list of line attributes is displayed. These are seeded from the FSI\_SLA\_ATTR\_MASTER table.
- d. Transaction Amount, Transaction Currency, and Transaction Number are selected by default.

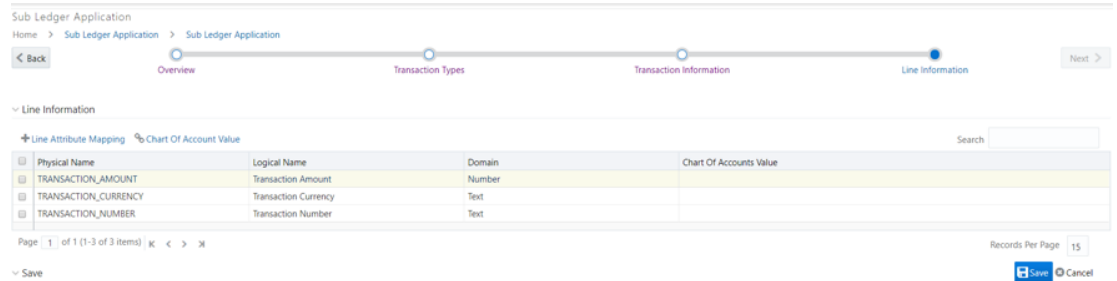


e. Click  to move the required entities to the list of the selected values.

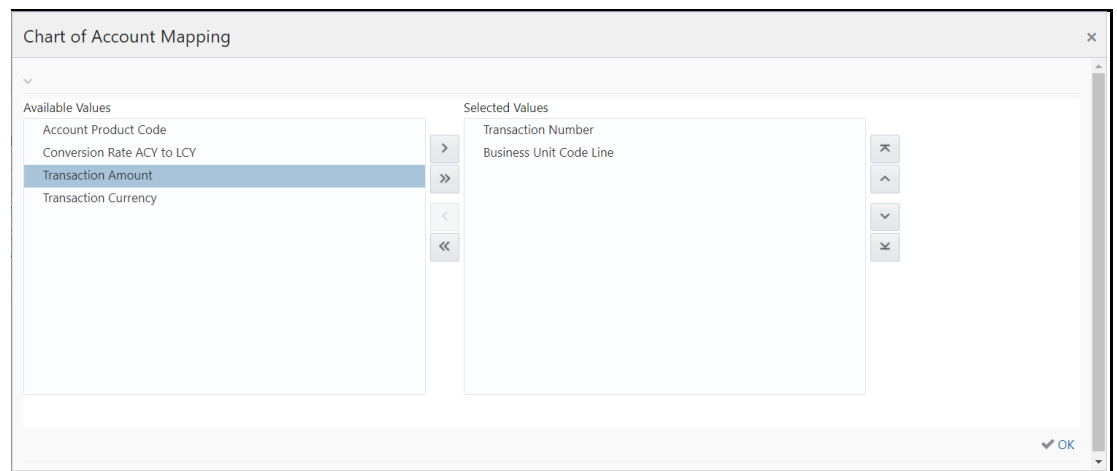
f. Click  to move all the entities to the list of the selected values.

g. 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.




i. If you wish to display these attributes as part of the chart of account, click [Chart Of Account Value](#). The Chart of Account Mapping screen appears.



**NOTE** You cannot assign a chart of accounts display as yes to the three mandatory columns.

a. Click  to move the required entities to the list of the selected values.

b. Click  to move all the entities to the list of the selected values.

c. Click  to move the entities up and down.

d. After the entities are selected, click OK.

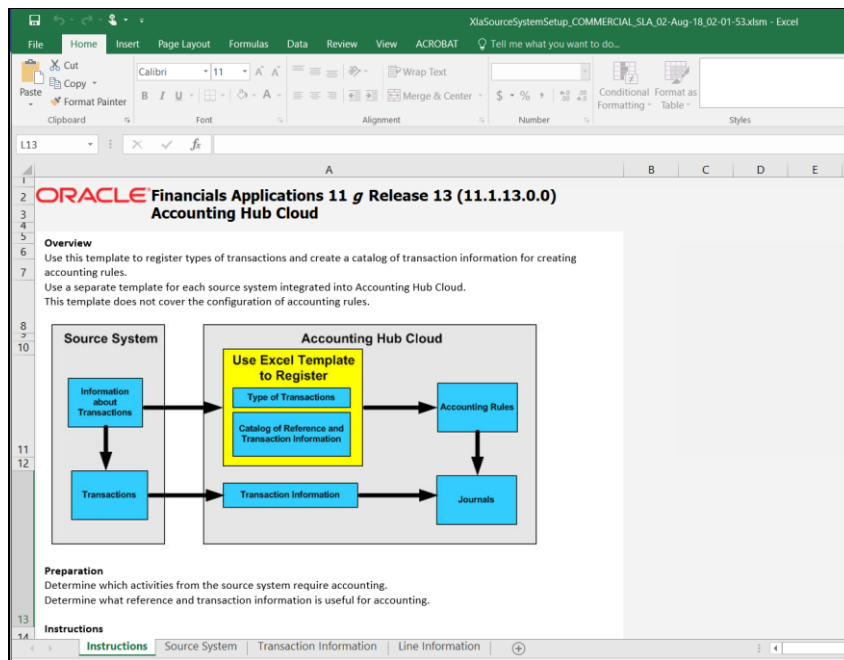
8. Click Save. An entity is now saved under the summary screen.

**NOTE**

After the transaction and line, information is mapped and saved, they are stored in the FSI\_SLA\_TRANSACTION\_ATTR and FSI\_SLA\_LINE\_ATTR tables, respectively. Transaction and Line information is already configured for the pre-packaged Sub Ledgers. Refer to the [Pre-packaged Sub Ledger Configurations](#).

### 7.5.3 Registration of SLAs with Accounting Hub Service

1. Navigate to Sub-Ledger Summary screen to access the list of SLAs.
2. From this list of SLAs, select the SLA that needs to be registered.
3. Click **Download Template**. A file with the XLSM extension is downloaded to the client machine. This XLSM file maintains the template in XlaSourceSystemSetup.xlsxm with Sub-Ledger Application details filled in.



4. In the Instruction screen, all the details are explained.
5. In Source System, the name and short name are given in the Sub Ledger Application screen are displayed.

XlaSourceSystemSetup\_COMMERCIAL\_SLA\_02-Aug-18\_02-01-53.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View ACROBAT Tell me what you want to do...

Clipboard Copy Paste Format Painter Font Alignment Merge & Center Number Styles

B21 ADVANC\_T\_COMMERCIAL\_SLA

Transaction Types		Generate ZIP
<b>Overview</b>		
List the types of transactions from the source system that may need accounting.		
Examples: creating invoices, recording receiving or sending of payments, adjusting orders or customer balances.		
<b>Technical information</b>		
1. Short names are used as column names for the objects in the Accounting Hub Cloud system, and are limited to alphanumeric characters and underscores.		
2. The source system name is used as the subledger application and event class		
*Name	*Short Name	
Adjustment Txn Commercial Bank	ADJUST_T_COMMERCIAL_SLA	
Advance Txn Commercial Banking	ADVANC_T_COMMERCIAL_SLA	
Asset Amort Txn Commercial Ban	ASSETA_T_COMMERCIAL_SLA	
Asset Expiration Txn Commercia	ASSETE_T_COMMERCIAL_SLA	
Asset Valuation Txn Commercial	ASSETV_T_COMMERCIAL_SLA	
Buyer Settlement Txn Commercia	BUYERS_T_COMMERCIAL_SLA	
Close Txn Commercial Banking	CLOSED_T_COMMERCIAL_SLA	
Collection Txn Commercial Bank	COLLEC_T_COMMERCIAL_SLA	
Conversion Txn Commercial Bank	CONVER_T_COMMERCIAL_SLA	
Cost Allocation Txn Commercial	COSTAL_T_COMMERCIAL_SLA	
Default Txn Commercial Banking	DEFAULT_T_COMMERCIAL_SLA	
Deposit Txn Commercial Banking	DEPOSP_T_COMMERCIAL_SLA	
Deposit Returned Txn Commercia	DEPOSR_T_COMMERCIAL_SLA	
Disbursement Txn Commercial Ba	DISBUR_T_COMMERCIAL_SLA	
Expenses Amort Txn Commercial	EXPENA_T_COMMERCIAL_SLA	
Funding Txn Commercial Bankline	FLINDIN_T_COMMERCIAL_SLA	

Instructions Source System Transaction Information Line Information

XlaSourceSystemSetup\_COMMERCIAL\_SLA\_02-Aug-18\_02-01-53.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View ACROBAT Tell me what you want to do...

Clipboard Copy Paste Format Painter Font Alignment Merge & Center Number Styles

B21 ADVANC\_T\_COMMERCIAL\_SLA

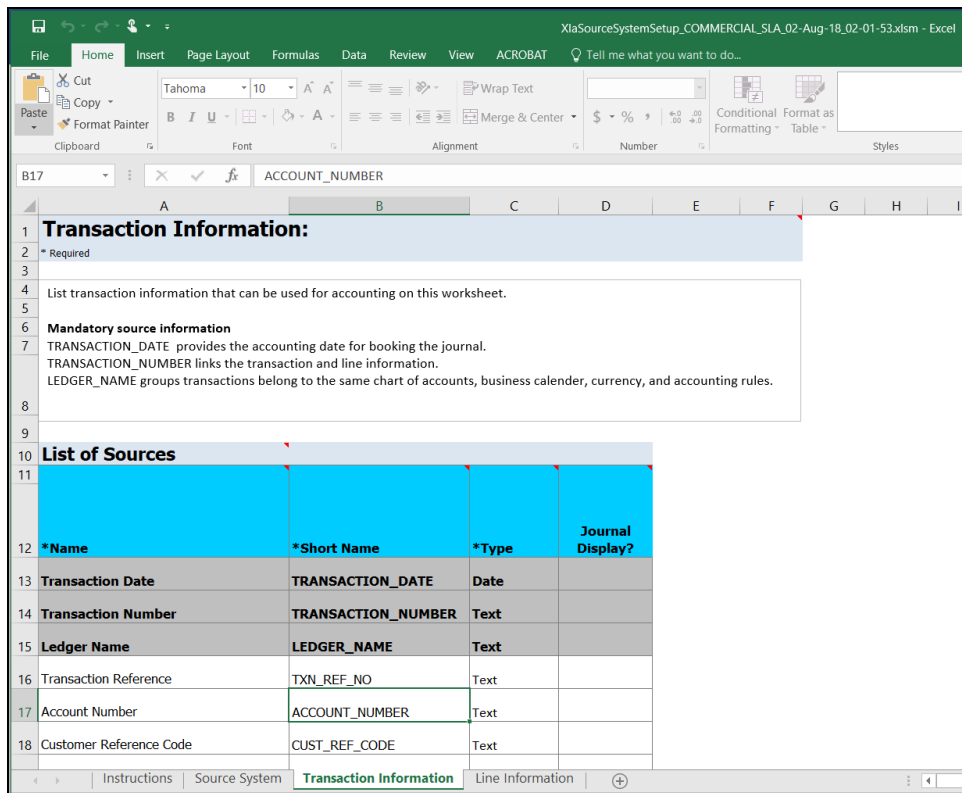
Transaction Types		Generate ZIP
<b>Overview</b>		
List the types of transactions from the source system that may need accounting.		
Examples: creating invoices, recording receiving or sending of payments, adjusting orders or customer balances.		
<b>Technical information</b>		
1. Short names are used as column names for the objects in the Accounting Hub Cloud system, and are limited to alphanumeric characters and underscores.		
2. The source system name is used as the subledger application and event class		
*Name	*Short Name	
Adjustment Txn Commercial Bank	ADJUST_T_COMMERCIAL_SLA	
Advance Txn Commercial Banking	ADVANC_T_COMMERCIAL_SLA	
Asset Amort Txn Commercial Ban	ASSETA_T_COMMERCIAL_SLA	
Asset Expiration Txn Commercia	ASSETE_T_COMMERCIAL_SLA	
Asset Valuation Txn Commercial	ASSETV_T_COMMERCIAL_SLA	
Buyer Settlement Txn Commercia	BUYERS_T_COMMERCIAL_SLA	
Close Txn Commercial Banking	CLOSED_T_COMMERCIAL_SLA	
Collection Txn Commercial Bank	COLLEC_T_COMMERCIAL_SLA	
Conversion Txn Commercial Bank	CONVER_T_COMMERCIAL_SLA	
Cost Allocation Txn Commercial	COSTAL_T_COMMERCIAL_SLA	
Default Txn Commercial Banking	DEFAULT_T_COMMERCIAL_SLA	
Deposit Txn Commercial Banking	DEPOSP_T_COMMERCIAL_SLA	
Deposit Returned Txn Commercia	DEPOSR_T_COMMERCIAL_SLA	
Disbursement Txn Commercial Ba	DISBUR_T_COMMERCIAL_SLA	
Expenses Amort Txn Commercial	EXPENA_T_COMMERCIAL_SLA	
Funding Txn Commercial Bankline	FLINDIN_T_COMMERCIAL_SLA	

Instructions Source System Transaction Information Line Information

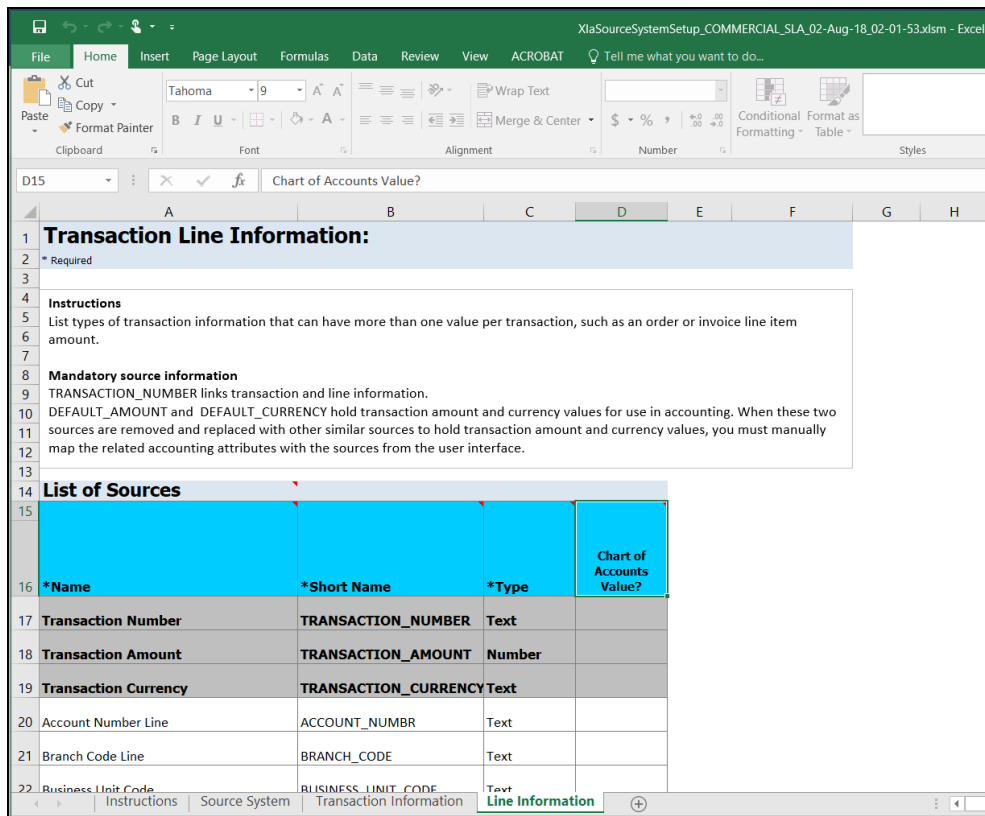
**NOTE**

The name or short name, which appears in the row, must have the event type name along with the Sub Ledger Application name, following EVENT\_TYPE\_NAME\_SLA\_NAME pattern, as in the screenshot, above. The Transaction Type name is appended with the SLA name to maintain the uniqueness of transaction types across all Sub Ledger Applications. Short Name is limited by AHCS specifications to 30 characters and those employed by FSDF Integration for AHCS consider this.

6. In Transaction Information, those Transaction Type Names and Short Names against which Journal Display is set to Yes is displayed through the AHCS user interface.



7. In-Line Information, those Transaction Type Names, and Short Names against which Journal Display is set to Yes is displayed through the AHCS user interface.



**NOTE** The three mandatory columns are listed in a greyed area for both transaction and line information.

- Click **Validate**, in Source System tab of the XLSM file, to check if there are any errors in the template.

**NOTE** The XLSM files must not be manually modified. If you want to make changes to the files, make the required changes using the DIH user interface and follow the steps to download the template again.

- Click **Generate ZIP**, in Source System tab of the XLSM file, to compress required content, prepare the ZIP file and upload it to AHCS instance.

**NOTE** In AHCS, map 'Entered Amount' and 'Entered Currency' in Manage Accounting Attributes user interface to Transaction Amount and Transaction Currency, before proceeding with the configuration of accounting rules.

## 7.5.4 Steps to Implement Flexible Accounting

### References:

- Verified Source Registration file (Verified file for [XlaSourceRegistration](#)).

**NOTE** This is validated in use for registration with AHCS.

- Data template downloaded off AHCS (Verified file for [XlaTransactionUploadTemplate](#)).
- Sample files for EDD creation ([Header EDD](#) and [Line EDD](#)).

### 7.5.4.1 Instructions

Perform the following instructions:

- Obtain [XlaSourceSystemSetup.xlsm](#) from AHCS.
- [Configure SLA Attributes](#) in DIH.
- Save to obtain a filled [XlaSourceSystemSetup.xlsm](#) file.

#### NOTE

The verified XlaSourceRegistration and XlaTransactionUploadTemplate file have Retail SLA attributes configured, as an example.

- [Configure EDDs](#) in DIH.

### 7.5.4.2 Configuring SLA Attributes

To configure the SLA Attributes, follow these steps:

1. In the AHCS Settings window, update the **Transaction Type** column name to "EVENT\_TYPE\_CODE", and click **Save**.
2. While configuring SLAs or attributes:
  - a. See verified source registration file ([XlaSourceRegistration](#)).
  - b. Do NOT use the same names as defaulted by AHCS.
  - c. Do NOT repeat names across transactions (header) and line attributes.
  - d. Do NOT use or include "EVENT\_TYPE\_CODE" or "TRANSACTION\_REVERSAL\_FLAG" in the header, in this step.
  - e. Do NOT use or include "LINE\_NUMBER" in line, in this step.
  - f. Excluding mandatory fields, the following counts must be achieved in the files:

**Table 1: Transaction (Header)**

Text	50
Number	10
Date	10
Long Text	5

**Table 2: Line**

Text	100
Number	30
Date	10
Long Text	5

- g. In both cases, all SLA attributes, including those you configure to be sent with actual data to AHCS, will figure in the count

3. Locate the filled [XlaSourceSystemSetup.xlsm](#) file and open the file.  
Navigate to Validate > Generate ZIP.
4. Register source and create SLA with the zip file in AHCS.
5. Download data template from AHCS for the defined SLA scope.

### 7.5.4.3 Configuring EDD

To configure EDD, follow these steps

1. See the downloaded data template and prepare EDD specification files referring ([Header EDD](#) and [Line EDD](#) as examples. Ensure that, “TRANSACTION\_REVERSAL\_FLAG” is included, if present in the downloaded data template. Also, ensure that “LINE\_NUMBER” is included.

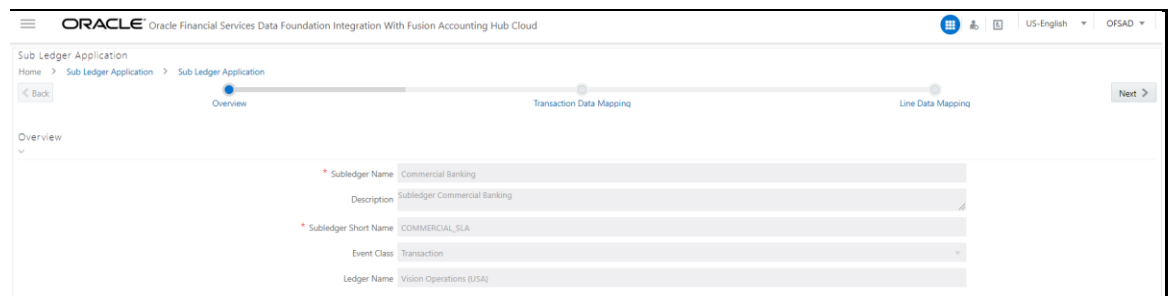
**NOTE** You must carefully apply filters if any while creating connectors to fetch the correct data from a product for a Subledger. Extraction Date filter is already enabled with pre-packaged connectors for executing them.

2. Verify and ensure that the order of data elements in [Header EDD](#) and [Line EDD](#) is the same as that in the downloaded data template.
3. Open transaction (header) EDD created by DIH upon SLA configuration (“AH SLA <<SLA Name>> Header” pattern), upload [Header EDD](#) prepared in step 2, save and verify the order.
4. Open line EDD created by DIH upon SLA configuration (“AH SLA <<SLA Name>> Line” pattern), upload [Header EDD](#) prepared in step 2, save and verify the order.
5. The interface with your instance of AHCS is now ready for use.

### 7.5.5 Using Data Map

To create a Connector and map it to a Sub Ledger Application:

1. Select the desired SLA in the Sub Ledger Application summary user interface and click **Data Map**. The following screen appears. The fields are non-editable under Overview.



2. Click **Next**. The Transaction Data Mapping screen appears.

Oracle Financial Services Data Foundation Integration With Fusion Accounting Hub Cloud

Sub Ledger Application

Home > Sub Ledger Application > Sub Ledger Application

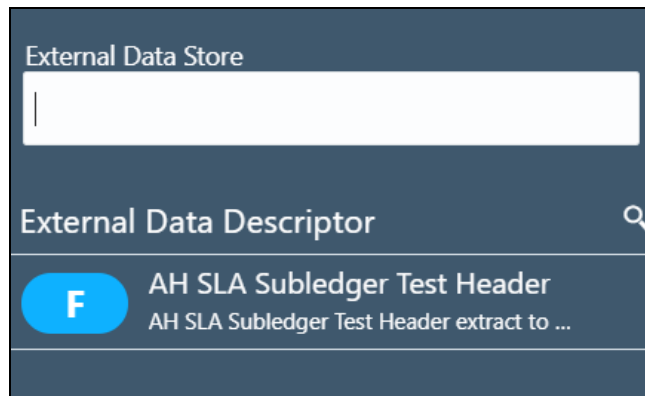
Overview Transaction Data Mapping Line Data Mapping

Data Mappings

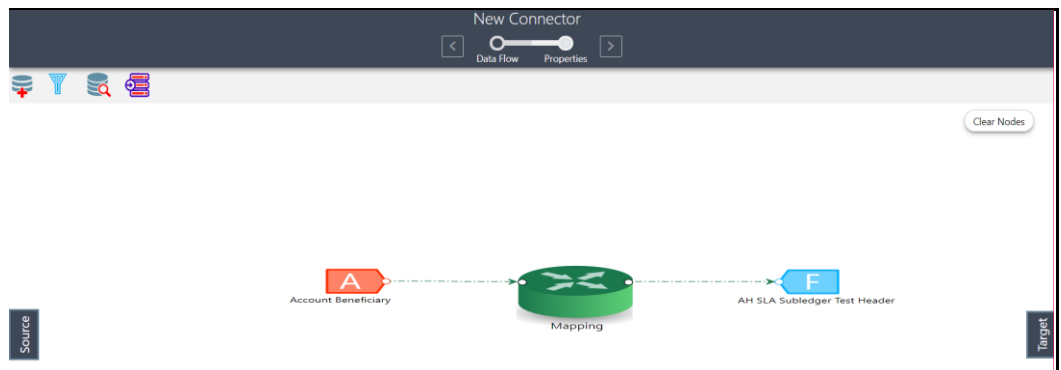
Connector Name	Description	EDD Name	Connector Status
AH Com Bill Contract Header	AH Com Bill Contract Header	AH SLA Commercial Ban Header	Present
AH Com CASA Header	AH Com CASA Header	AH SLA Commercial Ban Header	Present
AH Com Commitment Header	AH Com Commitment Header	AH SLA Commercial Ban Header	Present
AH Com Correspondent Header	AH Com Correspondent Header	AH SLA Commercial Ban Header	Present
AH Com Credit Card Header	AH Com Credit Card Header	AH SLA Commercial Ban Header	Present
AH Com Guarantee Header	AH Com Guarantee Header	AH SLA Commercial Ban Header	Present
AH Com Lease Header	AH Com Lease Header	AH SLA Commercial Ban Header	Present
AH Com LetterOfCredit Header	AH Com LetterOfCredit Header	AH SLA Commercial Ban Header	Present
AH Com Loan Header	AH Com Loan Header	AH SLA Commercial Ban Header	Present
AH Com Merchant Card Header	AH Com Merchant Card Header	AH SLA Commercial Bank Line	Present
AH Com Overdraft Header	AH Com Overdraft Header	AH SLA Commercial Ban Header	Present
AH Com Swap Header	AH Com Swap Header	AH SLA Commercial Ban Header	Present
AH Com Term Deposit Header	AH Com Term Deposit Header	AH SLA Commercial Ban Header	Present

Page 1 of 1 (1-13 of 13 items) Records Per Page 15

- Click **Create** to add a new data mapping. The New Connector screen appears.
- Under Target, the required EDD is automatically created following the “AHC SLA <<SLA NAME>> Header” pattern. For example, when Sub Ledger Application is named Commercial Banking, EDD created is “AH SLA Commercial Banking Header”. EDD structure will have all the attributes that are mapped to the Sub Ledger Application under Transaction Information.



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



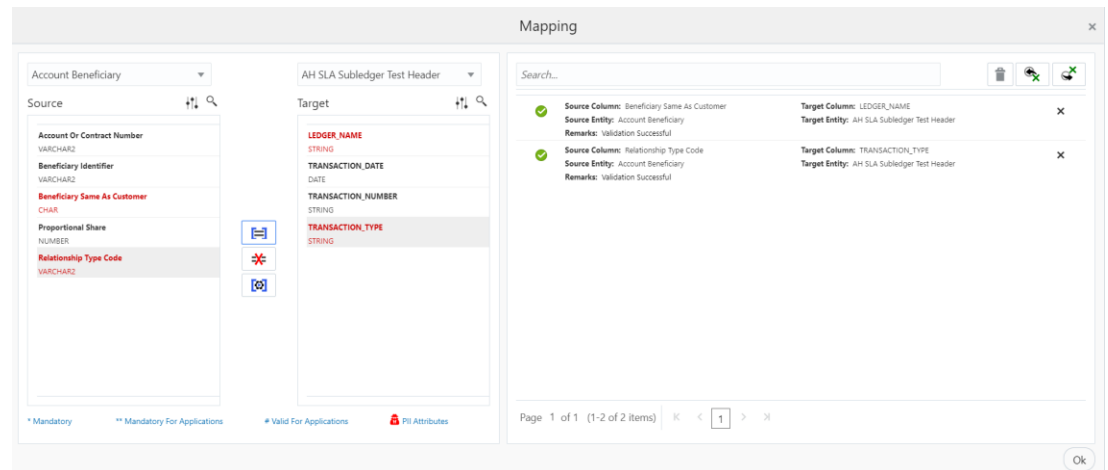
**NOTE**

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



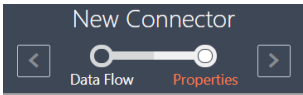
Event Type names must also be filtered depending on the Sub Ledger you configure. If not configured, all transaction types are processed in the extract data for a particular Sub Ledger and the accounting process fails.

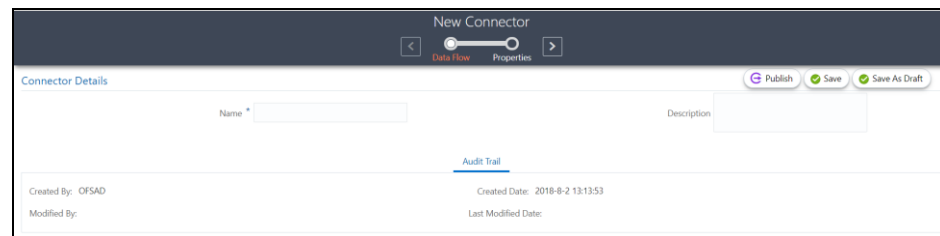
- d. Double-click mapping to map the source and target.

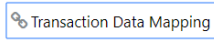


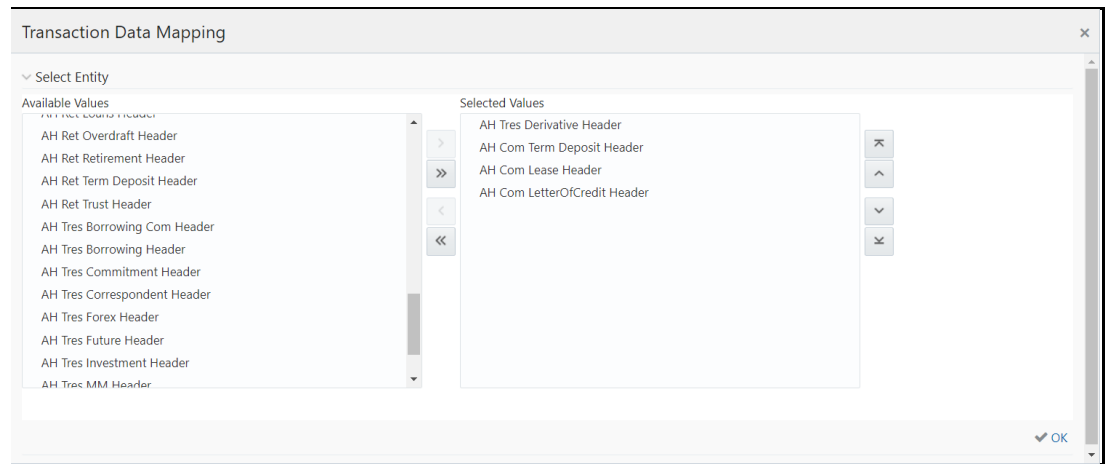
**NOTE**




For more information on mapping, see the Connectors section in the [DIH User Guide](#).

- e. Click Properties  or . The Connector Details screen appears.

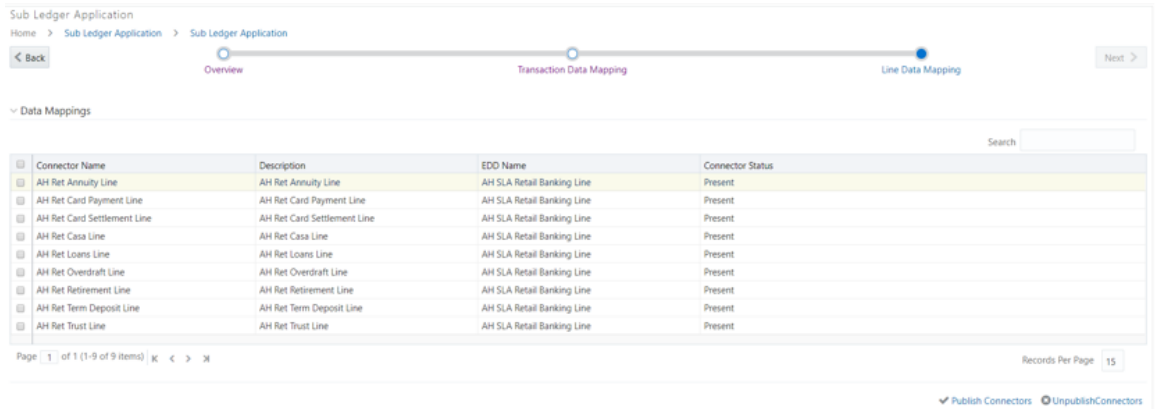


- f. Enter the name and description and click Publish / Save / Save As Draft. You can also publish the connector under the Sub Ledger Data Mappings screen. The published connector is displayed under the Data Mappings screen.
- g. Click . The Transaction Data Mapping screen appears. It displays all the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

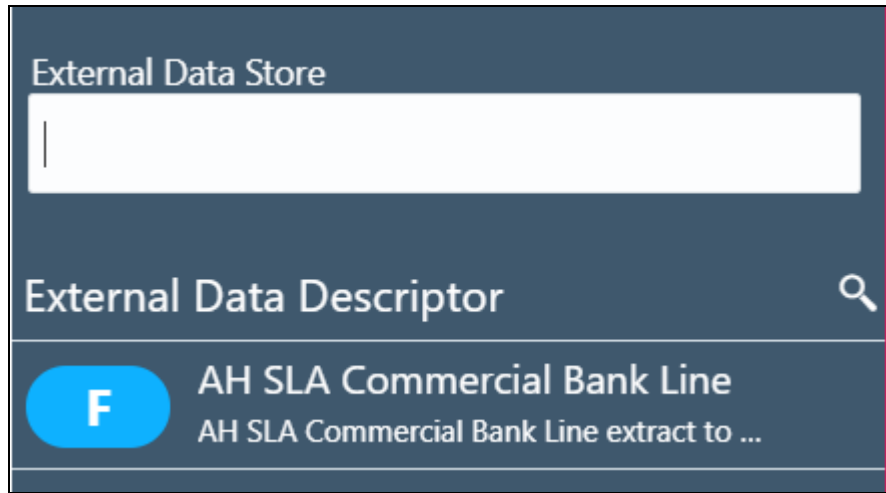


- i. Click  to move the required entities to the list of the selected values.
- ii. Click  to move all the entities to the list of the selected values.
- iii. You click  to move the entities up and down.
- iv. After the entities are selected, click OK.

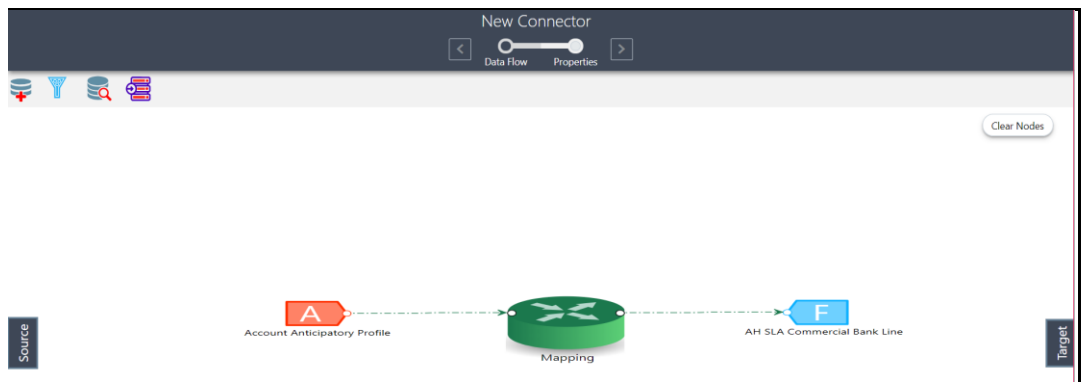
3. Click Next. The Line Data Mapping screen appears.



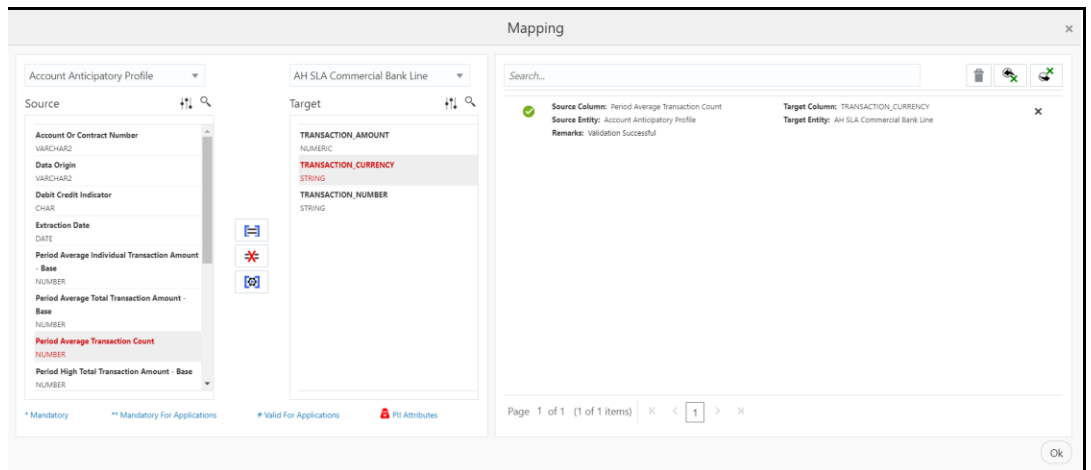
- a. Click Create to add a new data mapping. The New Connector screen appears.
- b. Under Target, the EDD is automatically created. For example, Sub Ledger's name is Commercial Banking. The EDD is created with AHC SLA as the prefix of the name and Line as the suffix. The full name is "AH SLA Commercial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



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



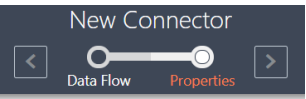

d. Double-click Mapping to map the source and target.

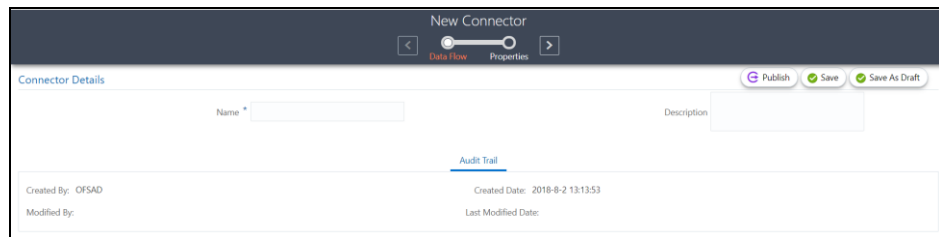


**NOTE**

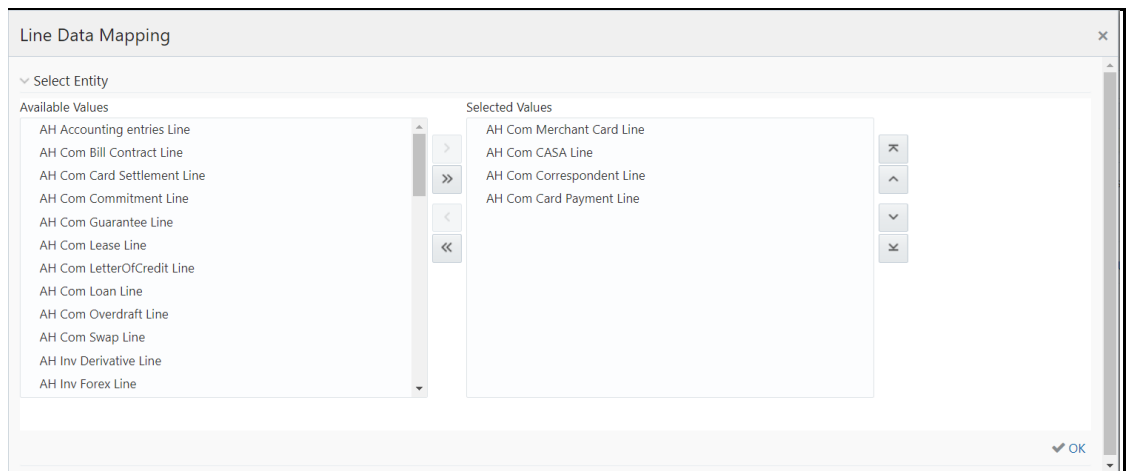
You must apply filters if any while creating connectors to fetch the correct data from a product for a particular Sub Ledger. Extraction Date filter is already enabled with pre-packaged connectors for executing them.





For more information on mapping, see the Connectors section in the [DIH User Guide](#).




- e. Click 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 Sub Ledger Data Mappings screen. The published connector is displayed under the Data Mappings screen.
- g. Click [Line 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 Sub Ledger listed here.




- i. Click  to move the required entities to the list of the selected values.
- ii. Click  to move all the entities to the list of the selected values.
- 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 the required connector row checkbox and click  [Edit Data Mapping](#) to edit a required connector.

## 7.5.6 Copying a Sub-Ledger Application

To copy a Sub-Ledger:

1. Select one Sub-Ledger and click  [Copy](#) a sub-ledger. Save “sub-ledger” As screen appears.



2. Enter the Name and Short Name and click Save. This copies all the properties except the name and short name as it has to be unique.  
 For example, the connector names before copy are AH Com Bill Contract Header AH Com Casa Header, AH Com Commitment Header and so on. After copying, it changes to AH (copied SLA name) succeeded by Hdr1, Hdr2, and Hdr3.  
 Similarly, for line mapping, the name after copy shows as AH <SLAname> Ln1.
3. The EDD name is also replaced with the copied name in the connector screen in the format AH SLA <SLA name> Header and AH SLA <SLA name> Line.

## 7.6 Standardization of Product Codes and Mapping with Sub Ledger Applications

### 7.6.1 Filtering Data Based on Product Codes and Mapping to Sub Ledger Applications

Data for each Sub Ledger Application is obtained from common Header tables and specific transaction tables corresponding to the types of products relevant to the SLA. Some of these transaction tables or Product Processor Entities contain data relevant to more than one SLA.

In such instances, appropriate filters need to be applied as data is extracted from the Product Processor Entities for purposes of each SLA. Sub Ledger Applications packaged with FSDF Integration with AHCS already contain such filters, referring standard product types and codes thereof. Refer to this list of [seeded product codes](#) for details on product processor entities and seeded product codes.

Product Processor Entities that contain data relevant to more than a single SLA are listed below alongside corresponding SLAs for your reference:

Product Processor Entity	Sub Ledger Applications		
STG_CASA	Retail Banking	Commercial Banking	
STG_LOAN_CONTRACTS	Retail Banking	Commercial Banking	
STG_CARDS	Retail Banking	Commercial Banking	
STG_TD_CONTRACTS	Retail Banking	Commercial Banking	
STG_OD_ACCOUNTS	Retail Banking	Commercial Banking	
STG_SWAPS_CONTRACTS	Investment Banking	Commercial Banking	Treasury
STG_MM_CONTRACTS	Investment Banking	Treasury	
STG_INVESTMENTS	Investment Banking	Treasury	
STG_FUTURES	Investment Banking	Treasury	
STG_FX_CONTRACTS	Investment Banking	Treasury	
STG_CREDIT_DERIVATIVES	Investment Banking	Treasury	
STG_OPTION_CONTRACTS	Investment Banking	Treasury	
STG_REPO_CONTRACTS	Investment Banking	Treasury	
STG_COMMITMENT_CONTRACTS	Commercial Banking	Treasury	
STG_CORRESPONDENT_ACCOUNT	Commercial Banking	Treasury	

A set of product codes must be established [Managing Product Code Filters](#) such that multiple product or instrument codes in use across your institution are standardized for use across analysis and accounting. FSDF Integration with AHCS provides a seed list of product codes, each of which is mapped to a Sub Ledger Application [Managing Product Code Filters](#).

For example, STG\_CASA is designed to host data relating to both commercial and retail current and savings accounts, through seeded product codes 'RETACC' and 'CORPACC'. These product codes are, in turn, mapped to Retail Banking and Commercial Banking SLAs. Packaged SLAs have filters on product code pre-defined.

### 7.6.2 Managing Product Code Filters

FSDF Integration with AHCS uses a combination of filter clauses explicitly defined in Connectors and additional information maintained in SETUP\_MASTER, a configuration entity. While defining SLAs and related information, you may use entries recorded in this

entity to facilitate filtered extraction of data from product processor entities to SLAs. You may also use this mechanism to effect such filtered extraction, if packaged product codes, SLA definitions, related information or a combination of these are being modified.

The following tabulation depicts sample entries in SETUP\_MASTER to address the following scenario:

- STG\_CASA has data with four products codes – Retail Product 1, Retail Product 2, Commercial Product 1 and Commercial Product 2
- Data corresponding to Retail Product 1 and Retail Product 2 needs to be mapped to Retail Banking SLA
- Data corresponding to Commercial Product 1 and Commercial Product 2 needs be mapped to Commercial Banking SLA
- Standardized product codes are RETACC and CORPACC, corresponding to Retail Banking and Commercial Banking SLAs, respectively

Entries in the following tabulation facilitate appropriate filtering of data from STG\_CASA product processor entity to the correct SLAs:

V_COMPONENT_CODE (Actual Product Code)	V_COMPONENT_VALUE (Seeded Product Code)	V_COMPONENT_DESC (Description)
Retail Product 1	RETACC	STG_CASA to Retail Banking
Retail Product 2	RETACC	STG_CASA to Retail Banking
Commercial Product 1	CORPACC	STG_CASA to Commercial Banking
Commercial Product 2	CORPACC	STG_CASA to Commercial Banking

## 7.7 OFSAA Chart of Account (COA) Mapping

COA segments are pre-defined in the cloud environment before loading data to the STG\_GL\_DATA and management ledger table through connectors. You must map the relevant COA segments to the FSDF columns for loading data, as defined in the Accounting Hub Cloud Service environment. For example, if COA segment 1 has been mapped to Legal Entity attribute in a cloud environment while defining account rules, the same should be mapped in the DIH screens Legal Entity to COA\_SEGMENT1. The mapping screen for the COA segment displays different dimensions to allow you to map them to respective COA segments.

The ledger balance data from AHC comes in the form of COA segment columns. COA segments are defined differently for different users and hence there is an option to select which dimension represents which segment.

The Sub Ledger COA Mapping screen displays the seeded dimension names, which are a part of the data model, and it is possible to select dimensions against each COA segment as required.

The following list of pre-defined dimensions are needed in the application and which are mapped to COA segments: General Ledger Account Code

- Legal Entity Code
- Account Branch Code
- GAAP Code
- Currency Code

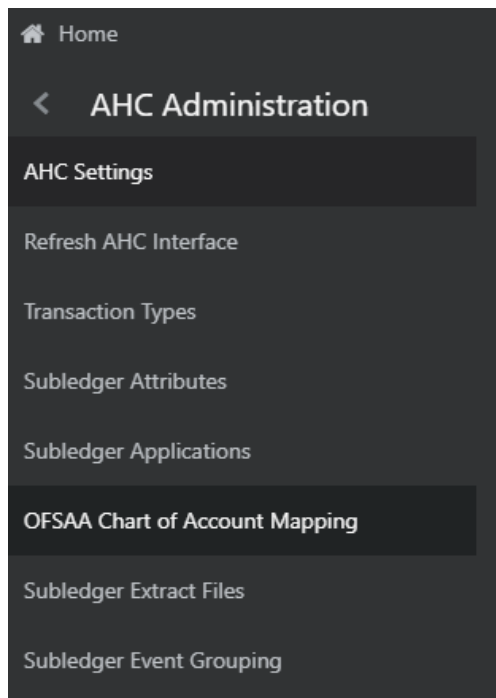
- Product Code
- Organization Unit Code
- Business Unit Code
- Customer Class Code

## 7.7.1 Mapping Segments

Depending on the COA or accounting principles followed, the OFSAA pre-defined dimensions can be mapped with the list of COA segments.

To map the segments, perform the following steps:

1. Navigate to **Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service > AH Administration > OFSAA COA Mapping**.



The Sub Ledger Chart of Account Map screen appears.

OFSAA Attribute	Chart of Account Segment
General Ledger Account Code *	COA_SEGMENT2
Legal Entity Code *	COA_SEGMENT4
Account Branch Code *	COA_SEGMENT8
Gaap Code *	COA_SEGMENT3
Currency Code *	COA_SEGMENTS
Product Code *	COA_SEGMENT1
Organisation Unit Code *	COA_SEGMENT6
Business Unit Code	COA_SEGMENT7
Customer Class Code	COA_SEGMENTS9

OFSAA Attribute column displays, the list of pre-defined dimensions and Chart Of Account Segment displays, the COA Segment value with a drop-down list of COA segments 'COA\_SEGMENT1', 'COA\_SEGMENT2' and so on.



Select the 'NONE' option when the dimension is not required to be mapped/used.

2. Select the required COA segments and click **Save**.

These segment values are replaced with the dimension columns as mapped in the inbound connector and the data is loaded as per the mapping into the staging tables of the ledger.

Once it is saved the Insert connectors automatically get mapped for both GL and SR.

**NOTE**

- Specify the COA segment as the attributes in OFSAA. For example, if you map the COA Segment 1 to GL Code, all the extracts from AHCS with column header as COA Segment 1 are loaded as GL Code in OFSAA.
- The pre-defined dimensions with \* must be mapped to some of the other COA segment to get values, as they are not null columns.

## 7.8 Sub Ledger Extract Files

During batch execution of Sub Ledger connectors, by default, the sixth parameter of the last task is set to N (For more information, refer [Batch Execution](#) which generates a .zip file after successful execution. When the parameter is set to Y, execution generates a .zip file, uploads it to UCM and triggers the required process automatically.

In both cases, this screen can be used to manage the extracted zip files.

The Sub Ledger Extract Files screen has all the list of Sub Ledgers, where you can select individual Sub Ledger and upload required files to UCM or further process them if files are already uploaded.

Subledger Name	Description	Subledger Code	Type	Ledger Name
CBPT C	Subledger CBPT C	CBPT_C	Passthrough	Vision Operations (USA)
CBPT Copy	Subledger CBPT Copy	CBPT_COPY	Passthrough	Vision Operations (USA)
Com Bank	Subledger Com Bank	COM_BANK	Transaction	Vision Operations (USA)
Commercial Banking	Subledger Commercial Banking	COMMERCIAL_SLA	Transaction	Vision Operations (USA)
Copy Core B	Subledger Copy Core B	COPY_CORE_B	Type	Vision Operations (USA)
Copy Core C	Subledger Copy Core C	COPY_CORE_C	Type	Vision Operations (USA)
Core Bank A	Subledger Core Bank A	CORE_BANK_A	Passthrough	Vision Operations (USA)
Core Bank Copy	Subledger Core Bank Copy	CORE_BANK_COPY	Passthrough	Vision Operations (USA)
Core Banking PT	Subledger Core Banking Passthrough	CORE_BANKING_PT	Passthrough	Vision Operations (USA)
Investment Banking	Subledger Investment Banking	INVESTMENT_SLA	Transaction	Vision Operations (USA)

When an SLA is selected, a new window opens which contains the list of files uploaded for that SLA.

File Name	Doc Id	Process Id	Status
XlaTransaction_RETAIL_SLA_01-Jan-2018_20_25_17.zip	411333	763313	ERROR
XlaTransaction_RETAIL_SLA_01-Jan-2018_18_50_10.zip	330600	577319	ERROR
XlaTransaction_RETAIL_SLA_01-Jan-2018_18_50_09.zip	330599	Process File	Not Available
XlaTransaction_RETAIL_SLA_01-Jan-2018_18_50_07.zip	330551	700286	ERROR
XlaTransaction_RETAIL_SLA_01-Jan-2018_18_50_06.zip	330496	577315	ERROR

It has four columns:

- **File Name:** The files uploaded appear under the File Name column. Click the file name to download the file to a local system.
- **Doc ID:** For the extracted .zip files, where batch execution is completed with the sixth parameter as N has 'Upload to UCM' option in this field for the first time. You can click this and the application uploads the created .zip file to UCM. Once it is uploaded, a unique Doc ID number is created and it appears in this column. For files executed with parameter 6 as Y and parameter 7 as 1, a unique doc ID number appears upfront.
- **Process ID:** For the extracted zip files, where batch execution is completed with the sixth parameter as Y and the seventh parameter as two, it has a unique Process ID number in this column. Those files, which are executed with the sixth parameter as N or Y (along with the seventh parameter as 1), has the 'Process File' option in this field for the first time. Process File will either upload the .zip file to UCM and trigger the process/job 'Import Accounting Transactions' or directly trigger the uploaded file with the Import Accounting Transactions process. Click 'Process File' and the following actions occur:
  - If Doc ID number exists – .zip file, which is already uploaded to UCM under the existing Doc ID, will be triggered for processing and a unique Process ID is created, which appears under this column after a successful trigger.
  - If Doc ID says 'Upload to UCM' – .zip file that is generated is automatically uploaded to UCM and triggers the required process. This updates the Doc ID and Process ID with a unique number after successful upload and process respectively.
- **Status:** The status is updated in a couple of seconds, which reflects the status of the 'Import Accounting Transactions' job.

**NOTE**

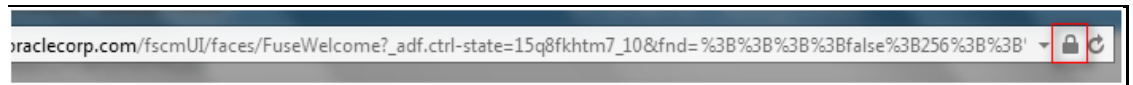
Ensure to validate the Host Name and Port Number in the following file in case of any connection errors:

```
<FIC_HOME>/ficdb/bin/DIHGenerateZip.sh
```

## 7.9 Importing Certificate into KeyStore

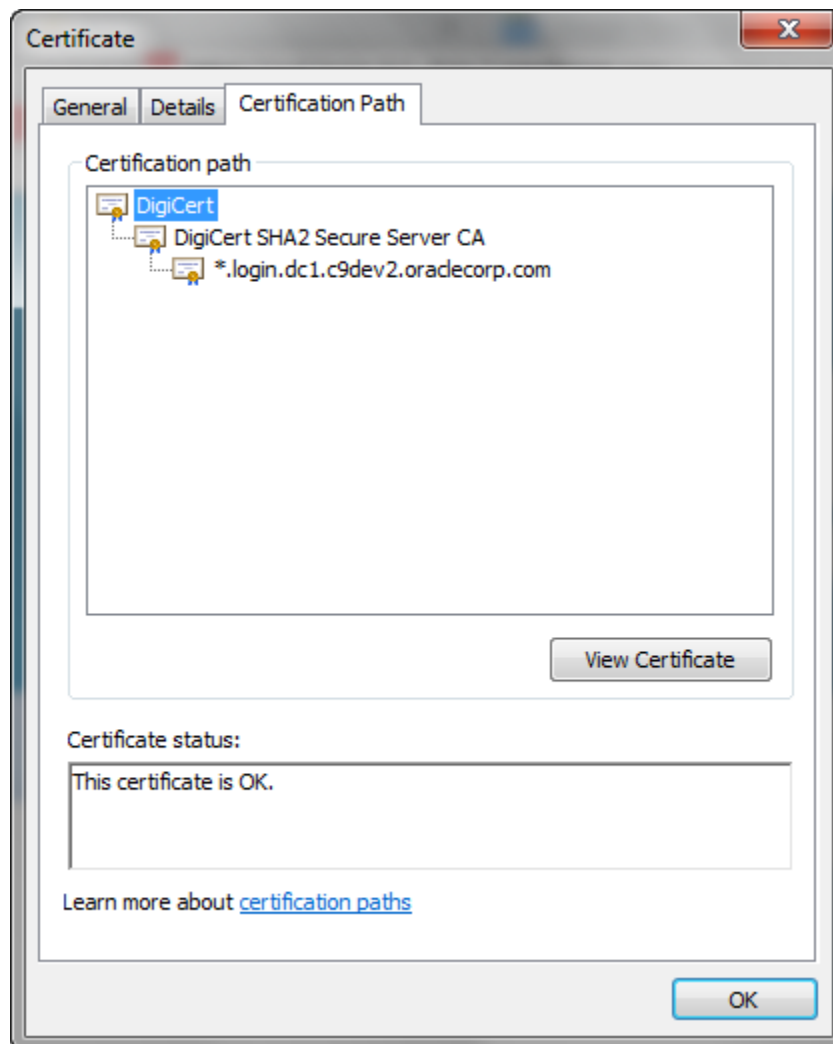
Export the certificate from the browser to the file using the following steps:

1. Access the AHC SSL URL for any web service using Microsoft Internet Explorer/Mozilla.
2. Click the Security Lock symbol and click View Certificates.



3. On the Certification Path tab, the certificate hierarchy appears.

Export the top two certificates (DigiCert and DigiCertSHA2SecureServerCA in the following case) to file.



4. On the Certification Path tab, select DigiCert 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.
9. Repeat steps 4 through 8 for the DigiCertSHA2SecureServerCA 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
```

## 7.10 Sub Ledger Event Grouping

Sub Ledger Event Grouping functionality is introduced to group data based on a few seeded dimensions while extracting and then posting them to AHC. Grouping based on the dimensions and significance. Similarly, while loading the data from AHC to STG\_GL\_DATA, aggregation based on the dimensions and the basic primary key columns of the GL data table helps in maintaining the uniqueness of the table without any errors.

Grouping functionality includes combining data based on some pre-seeded columns in both header and line-level data. When data is grouped on some dimensions and transaction numbers are not considered for grouping, there is a need to regenerate the transaction numbers. As aggregate columns are different in header and line level, aggregation happens separately for header and line data. However, the only connection between the line and header data is just the transaction number. Hence, to maintain the connection, pair up the corresponding header and line connectors along with a mapping table, which maintains actual transaction numbers with a map to newly generated or replaced transaction numbers.

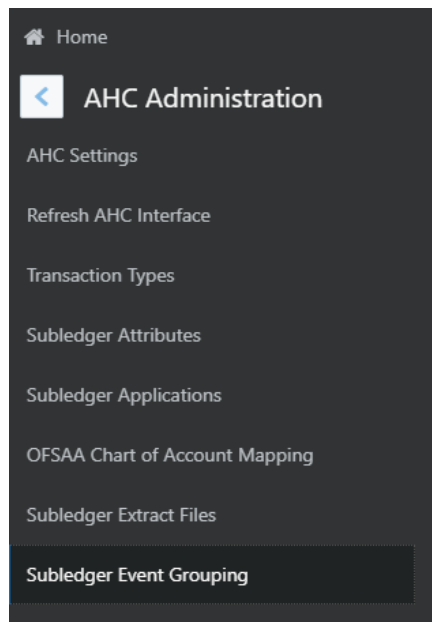
Grouping functionality includes the following components:

- Event Group Summary
- Defining an Event Group
- Managing Group Attributes

### 7.10.1 Sub Ledger Event Grouping Summary

To understand the Sub-Ledger Event Grouping summary screen:


1. Navigate to the AHC application interface.



2. Select AHC Administration, and click Sub Ledger Event Grouping. A list of pre-packaged event groups information for transmission to Accounting Hub appears.

Event Group Name	Header Connector	Line Connectors	
Accounting Entries	AH Accounting entries Header	AH Accounting entries Line	
Accounting Entries 1	AH Retail P Copy Hdr 3	AH Retail for Pair Ln 5	🔴
Com Bank Pair 10	AH Com Bank Hdr 13	AH Com Bank Ln 14	🔴
Com Bank Pair 11	AH Com Bank Hdr 12	AH Com Bank Ln 2, AH Com Bank Ln 13	🔴
Com Bank Pair 12	AH Com Bank Hdr 11	AH Com Bank Ln 12, AH CBPT Copy Ln 1	🔴
Com Bank Pair 13	AH Com Bank Hdr 10	AH Com Bank Ln 11	🔴
Com Bank Pair 2	AH Com Bank Hdr 5	AH Com Bank Ln 5	🔴
Com Bank Pair 3	AH Com Bank Hdr 4	AH Com Bank Ln 4	🔴
Com Bank Pair 4	AH Com Bank Hdr 3	AH Com Bank Ln 3	🔴
Com Bank Pair 6	AH Com Bank Hdr 9	AH Com Bank Ln 10, AH Com Bank Ln 9	🔴


The summary screen displays the Event Group Name, Header and Line Connectors:

- a. **Event Group Name:** It is the generic name given to identify a header and line connector mapping. Pre-packaged Sub Ledger connectors and name are displayed.
  - b. **Header Connectors:** Displays the header connector's name.
  - c. **Line Connectors:** Displays the line connector's name.
3. You can search for Sub-Ledger Event Grouping Name.
  4. Under Entries Summary, you can Define an Event Group, Manage Group Attributes and Delete user-defined group events.
  5. Click  if you wish to delete a Sub-Ledger Event Group.

**NOTE** It is not possible to delete a pre-packaged Sub-Ledger Event Group.

## 7.10.2 Defining an Event Group

To define an event group, perform the following steps:



1. On the Sub Ledger Event Grouping screen, click  to define event group. The Define Event Group window appears.

### Define Event Group

Name\*

Header Connector\*


Line Connectors\*

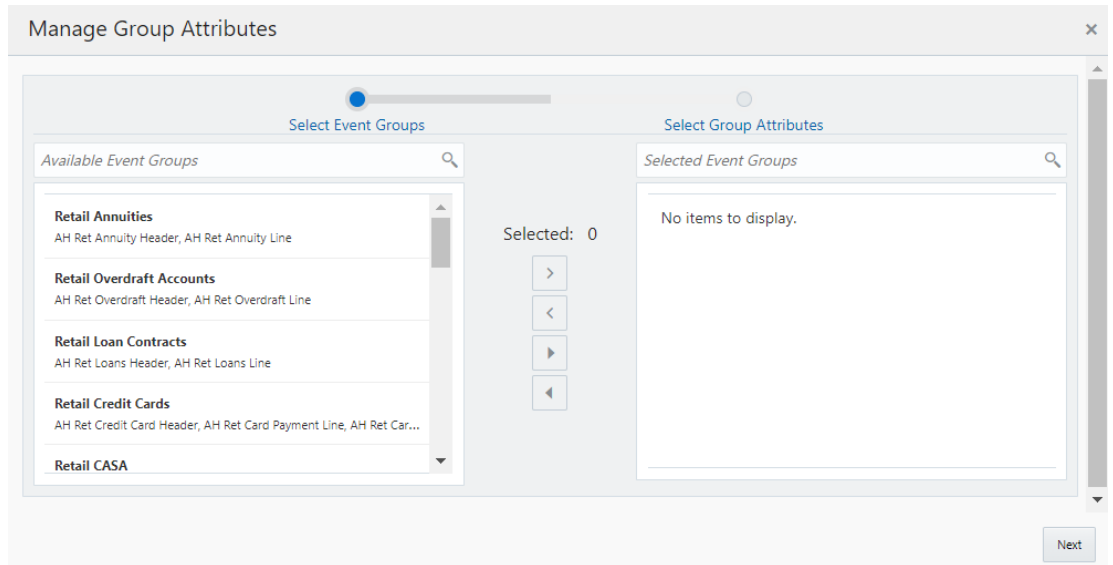
 Save
 Close





2. Enter the required details and click **Save**.

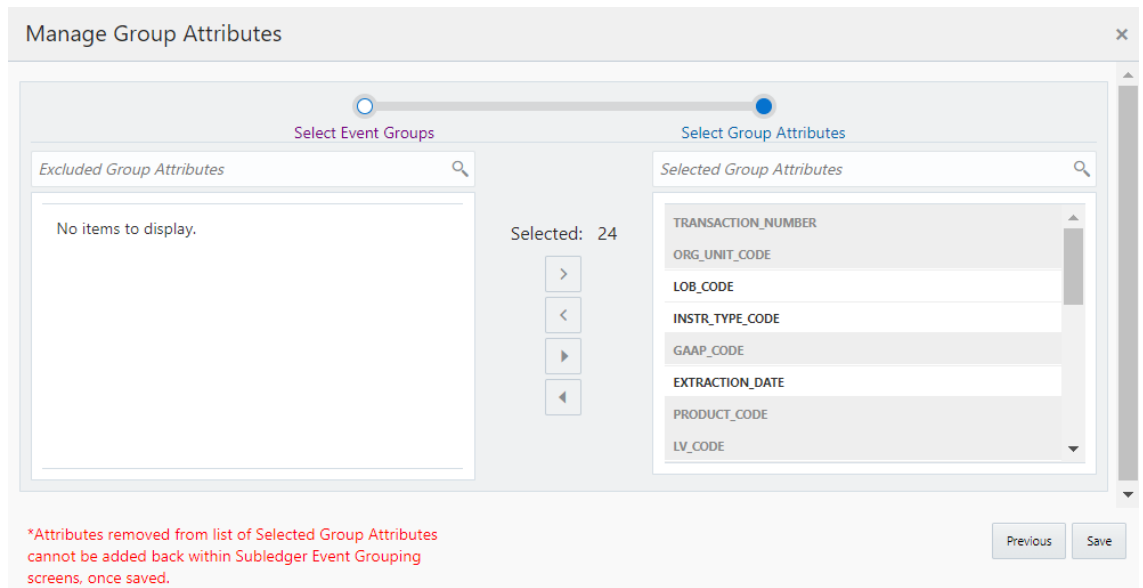
## 7.10.3 Managing Group Attributes

To manage group attributes, perform the following steps

1. On the Sub Ledger Event Grouping screen, click  to manage Group Attributes. The Manage Group Attributes window appears displaying the available Event Groups.







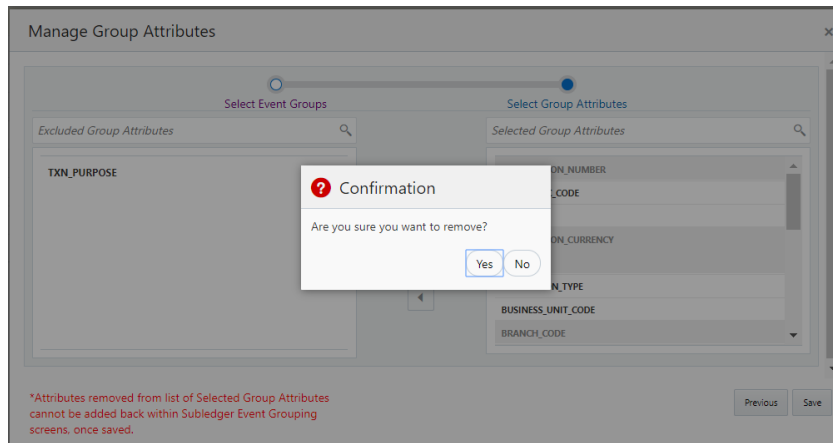
2. Select the Event Groups that are created previously, for which you want to define the group attributes.
  - a. Click  to move the required event groups to the list of the selected values.
  - b. Click  to move all the event groups to the list of the selected values.
  - c. Click  or  to move the event groups back one by one or all respectively.
3. After the event groups are selected, click Next to move to the Manage Group Attributes screen.



Here, by default all the columns, which are a part of mappings in the selected event groups are listed under the selected Group Attributes, that is, they are a part of the group by clause for grouping.

A list of grayed out attributes cannot be removed from the group attribute list, as they are the basic dimensions on which ledger data is required.

4. You can move the non-mandate columns to LHS and remove them from aggregation or group by clause.
  - a. Click  to move the non-mandate columns to LHS.
  - b. Click  to move the non-mandate columns to LHS.
  - c. Click  or  to move the entities back one by one or all respectively.
5. Once all the required columns are confirmed, click **Save**. A confirmation message appears.



6. Click **Yes**. The Sub Ledger Group Attributes are updated successfully.

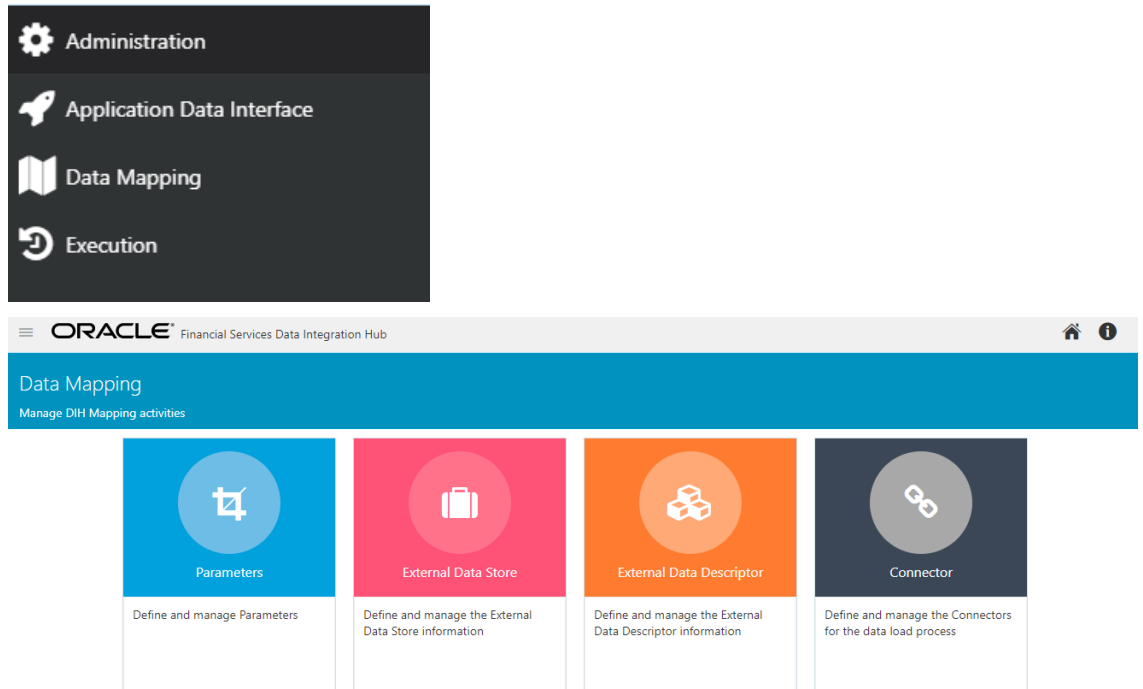
# 8 Preparing for Connector Deployment

## 8.1 Configuration Steps

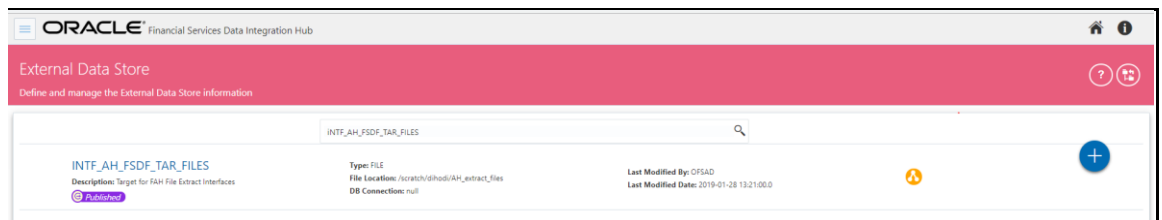
The following configuration steps are specific to FSDF Integration with AHCS and must be undertaken before proceeding to Deploy Connectors.

**NOTE** ODI setup must be completed in DIH Foundation before these tasks are undertaken. Refer [DIH User Guide](#).

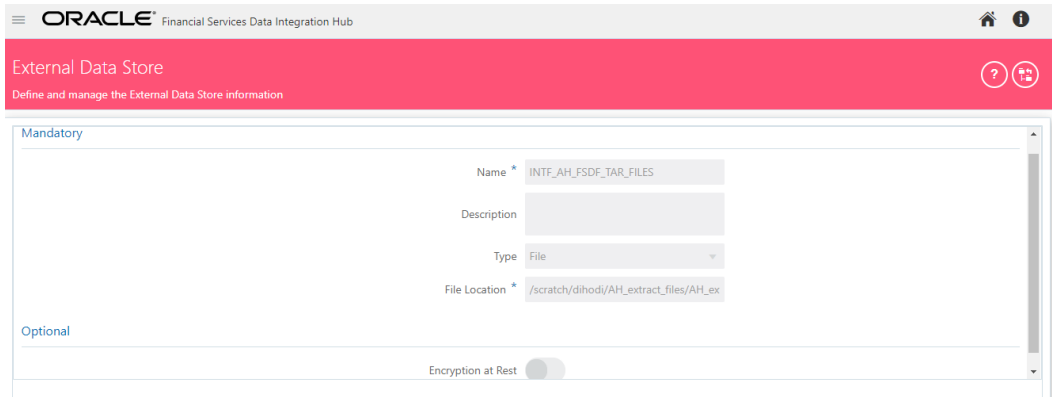
1. Navigate to **Financial Services Data Foundation Integration with Accounting Hub Cloud Service > Data Mapping > External Data Store**.



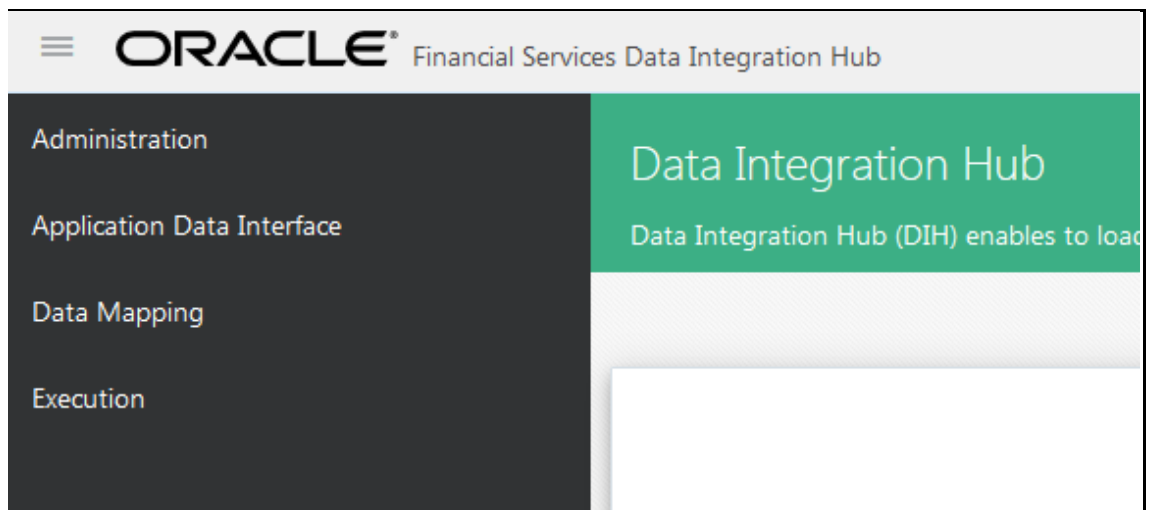
2. In **External Data Store** summary screen, search for EDS name INTF\_AH\_FSDF\_TAR\_FILES. Click this EDS to Edit.
  - a. Note that this EDS refers to AHCS as a target system for Events information, relevant to Extract Connectors.




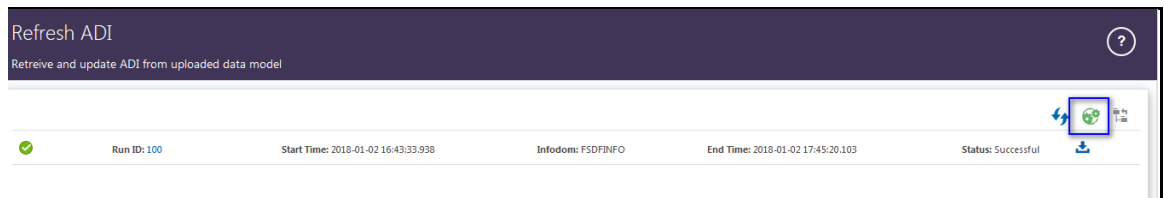





3. In the File Location field, specify the location where data files for AHCS integration are to be generated and saved. This file location **must be common to both ODI Agent and OFSAA Server**. This can be achieved in one of the following ways:
  - a. ODI Agent is installed or configured in the same server as OFSAA Server
  - b. The ODI Server and OFSAA Server have shared file storage with a suitable network mount.
4. Navigate to DIH Application and click the menu.



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



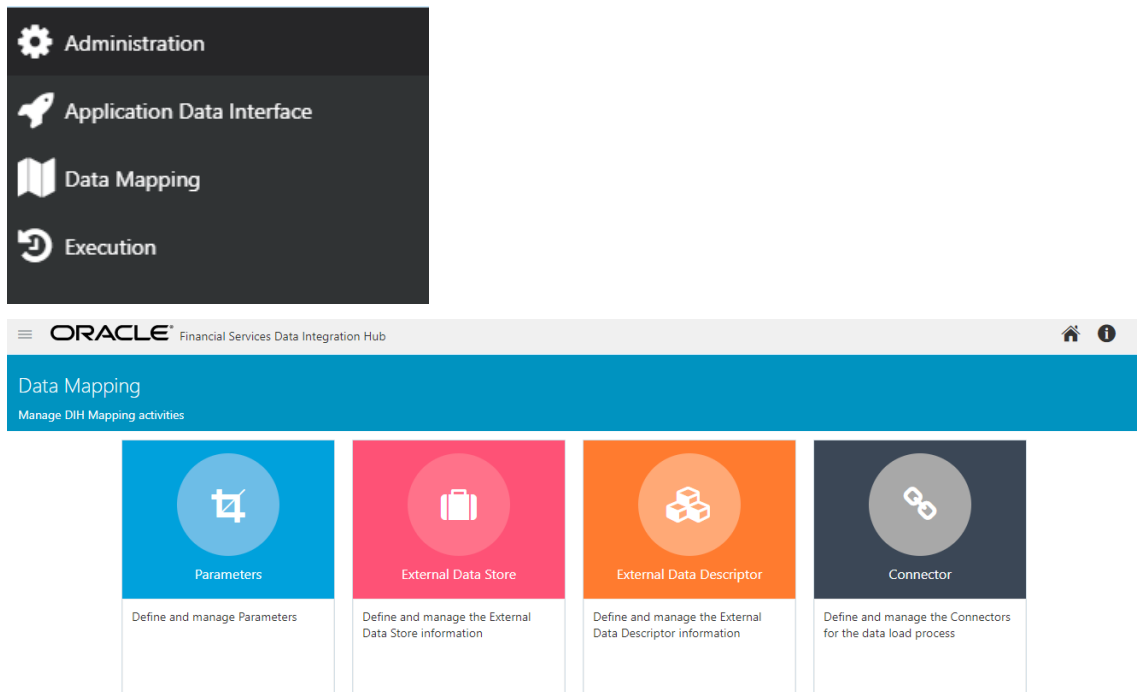
8. Navigate to DIH Application, click the menu.
9. Click the Application Data Interface.
10. On the RHS click Target Datastore Refresh.

11. Click Start . This refreshes all available target data stores.



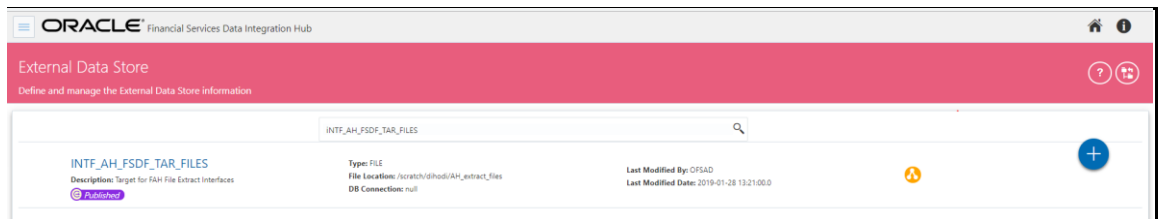
**NOTE** Refer to [DIH User Guide](#) to obtain detailed information for any of the steps mentioned above.

12. Navigate back the Data Store summary, following **Financial Services Data Foundation Integration with Accounting Hub Cloud Service > Data Mapping > External Data Store**.



13. In the External Data Store summary screen, search for EDS name INTF\_AH\_FSDF\_STAGE\_SRC. Click this EDS to Edit.

- a. Note that this EDS refers to AHCS as a source system for GL and SR balance information, relevant to Insert Connectors.



The screenshot shows the Oracle Financial Services Data Integration Hub interface for configuring an External Data Store. The page title is "External Data Store" with the subtitle "Define and manage the External Data Store information". The form is divided into "Mandatory" and "Optional" sections. In the Mandatory section, the following fields are visible:

- Name \***: INTF\_AH\_FSDF\_TAR\_FILES
- Description**: (empty)
- Type**: File (dropdown menu)
- File Location \***: /scratch/dihodi/AH\_extract\_files/AH\_ex

In the Optional section, there is a toggle switch for **Encryption at Rest**, which is currently turned off.

In the File Location field, enter the location where data files from AHCS are saved. This file location **must be common to both ODI Agent and OFSAA Server**.

## 9 Obtaining Balance Information from AHCS

This chapter provides details of the process that facilitates balance information against GL Chart of Accounts and with Support Reference information to be extracted from AHCS and ingested into FSDF.

### 9.1 Configuration and Data Files

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

#### 9.1.1 Chart of Account to OFSAA Dimension Mapping

See the [OFSAA Chart of Account \(COA\) Mapping](#) section for more information about how this mapping must be done.

#### 9.1.2 GL and XLA Data CSV Files from AHC

The following files must be downloaded from AHC along with Header Names and must be available under the EDS path before executing the Insert Connectors:

1. ah\_gl\_balance.csv
2. ah\_sr\_balance.csv
3. ah\_gl\_code\_combination.csv
4. ah\_sr\_ref\_combination.csv

See the [Downloading Files for Insert Connectors](#) section on how to download the CSV files to the EDS path.

#### 9.1.3 Downloading Files for Insert Connectors

The required files can be extracted first to UCM using the BI Cloud console in ERP. An extract must be defined in the BI Cloud console for the following BIV objects.

- [FscmTopModelAM.FinXlaBallngSuppRefBalAM.SuppRefCombinationsPVO](#)
- [FscmTopModelAM.FinGIAccountsCodeComboAM.CodeCombinationPVO](#)
- [FscmTopModelAM.FinGInquiryBalancesAM.BalancePVO](#)
- [FscmTopModelAM.FinXlaBallngSuppRefBalAM.SupportingReferenceBalancePVO](#)

The extract path must be chosen as Universal Content Manager (UCM) for the BI Cloud console extract and the column specified in the above-listed sheets must be selected in a specified order. After configuration, follow these steps to complete the integration:

1. Download a sample extract file for all the BIV Object extracts.
2. If the column order is not matching, then update the column order in the EDDs as per the respective data files.

## 9.1.4 GL and SR Balance Extraction

After all the previous data file configurations are completed, the following batches can be executed to load the GL and Supporting Reference data into OFSAA.

1. AH\_GL\_SR\_EXTRACT\_DOWNLOAD
2. AH\_CONNECTORS\_70121

### NOTE

For some unknown reasons, when deployed in the WebLogic server, not all batches are created. Follow these steps to avoid the issue:

1. Log in to the WebLogic server admin console.
2. Navigate to **Console**, select **Services**, and then select **Data Sources**.
3. Select **Atomic Schema.DS** and then select **Connection Pool**.
4. Update **Statement-Cache-Size** value to 0.
5. Restart the WebLogic server and redeploy connectors from the **AHC Refresh Interface** window.

See the [DIH User Guide](#) for more information on publishing and executing the DIH Connectors.

## 9.2 Executing AHC Connectors

After completing the steps in the [Chart of Account to OFSAA Dimension Mapping](#) and [Obtaining Balance Information from AHCS](#) sections, execute the following steps to consume balance information extracted from your instance of AHCS:

1. From the **Oracle Financial Services Data Foundation Integration with Accounting Hub Cloud Service** window, select **Accounting Hub Cloud Service**, select **Orchestration**, and then select **Batch Execution**.
2. Publish **AH GL Balances Insert Con** and **AH SR Balances Insert Con Connectors**.
3. In each execution sequence or period, navigate to **Batch Orchestration** and search for auto-generated batch AH\_CONNECTORS.

**Figure 1:** Batch Maintenance Window

The screenshot displays the 'Batch Maintenance Window' with two main sections: 'Batch Details' and 'Task Details'.

**Batch Details:**

Batch ID	Batch Description
<input checked="" type="checkbox"/> OFSDIINFO_AH_CONNECTORS_70121	To Execute INTF_AH_FSDF Connectors
<input type="checkbox"/> OFSDIINFO_AH_GL_SR_EXTRACT_DOWNLOAD	To Extract GL SR Balances

Page 1 of 1 (1-2 of 2 items) Records Per Page 15

**Task Details:**

Task ID	Task Description	Metadata Value	Component ID	Precedence	Task Status
Task1	Task to execute AH GL Balances Insert Con	AH GL Balances Insert Con	DIH CONNECTORS	START	N
Task2	Task to execute AH SR Balances Insert Con	AH SR Balances Insert Con	DIH CONNECTORS	Task1	N

Page 1 of 1 (1-2 of 2 items) Records Per Page 15

**NOTE** For some unknown reasons, when deployed in the WebLogic server, not all batches are created. Follow these steps to avoid the issue:

1. Log in to the WebLogic server admin console.
  2. Navigate to **Console**, select **Services**, and then select **Data Sources**.
  3. Select **Atomic Schema.DS** and then select **Connection Pool**.
  4. Update **Statement-Cache-Size** value to 0.
  5. Restart the WebLogic server and redeploy connectors from the **AHC Refresh Interface** window.
4. Select **AH GL Balances Insert Con Task** and click **Edit**. The Batch Parameters window is displayed.
  5. In **Batch Parameters** specify,
    - a. **PERIOD\_NAME** for which GL Balances must be extracted (for example, **PERIOD\_NAME='Aug-18'**).
    - b. **AH\_CONSOLIDATION\_FLAG** (for example, **AH\_CONSOLIDATION\_FLAG='C'**).
    - c. Update the **MIS\_DATE** format to the extracted date format of the **ACCOUNTING\_DATE** column present in the `ah_gl_balance.csv` file.  
  
For example, if the date is 08-Oct-18, then the format is **MIS\_DATE='\$MISDATE:dd-MMM-yy'**.
  6. Repeat steps 3 through 5 for **AH SR Balances Insert Con**.
  7. Navigate to **Batch Execution**, search for **AH\_CONNECTORS**, specify **FIC\_MIS\_DATE**, and execute the batch.

See the [DIH User Guide](#) for more information on publishing and executing the DIH Connectors.

# 10 Publishing Events Data to AHCS Using Extract Connectors

## 10.1 Configuration of Metadata

Refer to section [Managing Product Code Filters](#) for details in this regard.

## 10.2 Batch Execution

### NOTE

Ensure to have all the required configuration, including accounting rules, completed in your instance of AHCS before attempting to send events data using this process.

Read section [Batch Re-Execution](#) carefully before you proceed to Batch Execution.

In the Batch Execution window, there are batches created for each Sub Ledger. These batches are created when you publish SLAs, as detailed in the [Subledger](#) section of this guide.

To execute a batch, perform the following steps:

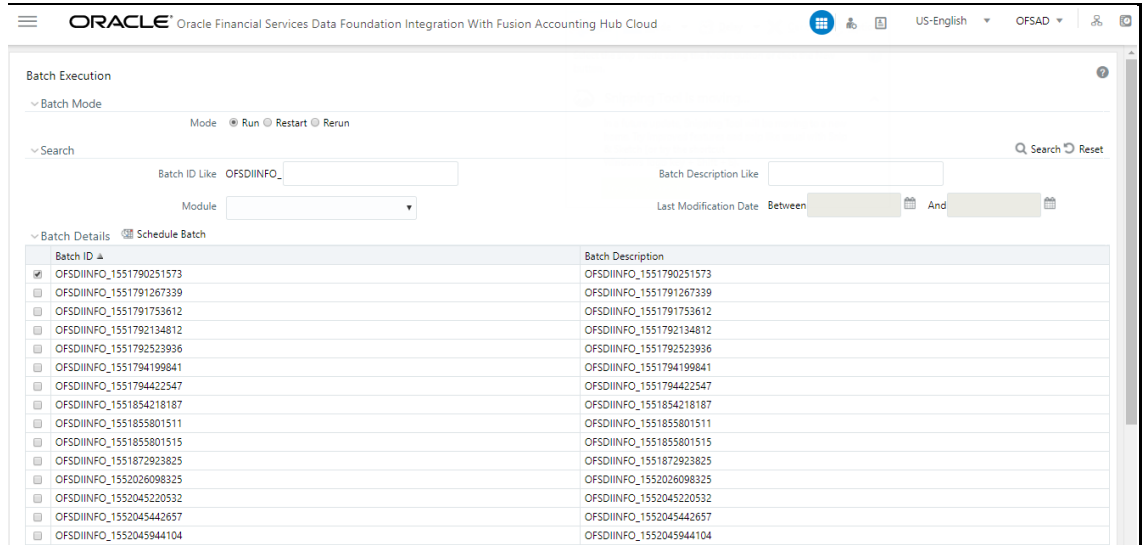
1. Select a batch from the list of batches.
2. Click **Schedule Batch**. The Batch scheduler window appears.

3. Enter the details as of which data must be processed and click **Save**.

Task ID	Task Description	Metadata Value	Component ID	Precedence	Task Status
TASK1	TASK1	NULL	DIH CONNECTORS	START	N

4. Click **Execute Batch**.

5. Refer [AAI User Guide](#) for details on batch execution, run-time parameters, and monitoring.



Each SLA batch consists of three Connector execution tasks – a Connector execution task that processes Event Grouping, one that prepares the Header file and a third that that prepares the Line file – and a fourth task that runs an executable file. All tasks specified within the batch are to be executed.

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 the Metadata.txt file with SLA details.
4. Creates a zip file including Header, Line, and Metadata files.
5. Refer the following structure to locate and identify ZIP files generated:

```

/<EDS_PATH>/<SLA_CODE>/XlaTransaction_<SLA_CODE>_<MIS_DATE>
_<TIMESTAMP>.zip

```

6. For every execution, intermediate files are copied to the temp folder along with a log file.

By default, AHCS disables automated triggering of events data processing once files have been uploaded via its API to UCM. This can be enabled by updating the sixth run-time parameter of the final Run Executable task to “Y” before executing the batch.

With this enabled, the seventh parameter of this task may be set to “1” (whereupon ZIP file is uploaded to UCM and no further action is taken) or “2” (whereupon ZIP file is uploaded to UCM and Import job in AHCS is triggered to process uploaded file) as appropriate for your purposes.

## 10.3 Batch Re-Execution

FSDF Integration with AHCS does not currently support incremental processing. Each execution causes all events data relevant for the MIS Date specified while executing the aforementioned batches, subject only to filters defined while setting up SLAs / related Connectors, to be extracted from Staging entities and published to AHCS.

In other words, batch processing can be performed only once per SLA for any given MIS Date. Re-execution may cause duplicated events data to be sent to your instance of AHCS, with no provision for automated roll-back.



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