Oracle Financial Services Data Integration Hub

User Manual

8.0.1.0.0





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Preface

Audience

Following are the intended audience for the DIH user guide:

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

Prerequisites

- OFSAA application should be installed for the staging tables. This can be installed before or after DIH.
- Oracle Data Integrator (ODI) must be installed.

Acronyms

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

Glossary of Icons

This manual may refer to all or some of the following icons.

Icons	Description
1	To create a function
	To Edit the details of a function
	To View the details of a function
阃	To Delete a function



Icons	Description
QD	To view Dependencies

Related Information Sources

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

- Oracle Financial Services Analytical Application-FCUBS Interface User Guide Release 8.0.1.0.0
- Oracle Financial Services Analytical Application-OBP Interface User Guide Release 8.0.1.0.0
- Oracle Financial Services Analytical Application-DRM Interface User Guide Release 8.0.1.0.0
- Oracle Financial Services Analytical Application-FAH Interface 8.0.1.0.0
- Oracle Financial Services Data Integration Installation Manual Release 8.0.1.0.0

1 Introduction to Data Integration Hub

This chapter provides an overview to Data Integration Hub (DIH), its benefits, and the structure of remaining chapters in the user guide.

This chapter covers the following topics:

- Overview of Data Integration Hub
- Benefits of DIH
- Summary of Chapters

1.1 Overview of Data Integration Hub (DIH)

Data Integration Hub (DIH) enables to load the data from the source systems to the OFSAA staging tables, through logical interfaces, known as Application Data Interfaces (ADI). Additionally, it enables extraction of data from the OFSAA system to downstream systems such as file, and Oracle Database. DIH provides a set of User Interfaces (UI), which is used to define and maintain External Data Descriptors (EDD), Application Data Interfaces, and also map the EDDs and ADIs through Connectors. The mappings can be one to one, one to many, and many-to-many.

The source systems that supply data include, the core banking systems, rating systems, modeling systems, and so on. In the absence of DIH, the data from the source systems are extracted, transformed, and loaded (ETL process) to the physical tables in Oracle Data Integrator (ODI). With DIH, the ETL activity is not replaced; but DIH serves as an abstract, logical layer to the physical tables in Oracle Data Integrator (ODI). In the logical layer, the entity and attribute names are mentioned in Business terms in English. In the physical layer, the table and column names are mentioned in technical terms.

The process is explained using the following example:

Let an attribute name in the logical layer be, Customer Account Number. The equivalent column name in the physical layer is V_Account_Number. Using the Connectors in DIH, the logical layer in ADI and physical layer in EDD are mapped. That is, in this case, Customer Account Number is mapped to V_Account_Number. The advantage of having DIH is, when the physical name of a column in an OFSAA table changes in the future, the financial institution need not change their data extracts. This also results in saving time, effort, and money for the migration activity.

Another major functionality of DIH is the support for Big Data. DIH supports source data in formats like HDFS and Hive. Additionally, it supports DB2, Sybase, SQL Server and Teradata.

1.2 Benefits of DIH

The benefits of DIH are as follows:

 Provides a level of abstraction and insulates upstream ETL processes from staging model changes. One of the examples is when the name of the table or column changes in the physical layer, only the mapping with logical layer needs to be updated. This results in cost, time and effort savings.

- Support of Big Data.
- Provides a simplified mapping screen for loading data into OFSAA staging via an abstract layer.
- Removes ETL technicalities by prepackaging & predefining ODI parameters based on different use cases.
- Download Specification is a system managed meta object for upstream data mapping.
- Process/execution optimization for OFSAA data and known use cases. For example, in a direct one-to-one mapping, there won't be any hopping.
- It also hosts pre-defined integration with Oracle Products that play role of data providers to Analytical Applications.
- Helps in getting lineage right from source data to staging till results.

1.3 Summary of chapters

This user guide provides information on mapping of a External Data Descriptor (EDD) with Application Data Interface (ADI). It begins with information on how a Parameter is defined, how a Source System is defined in DIH, how an EDD and ADI are set, and how they are connected. The metadata is then published to ODI. The execution part does not happen in DIH as it depends on batches that are scheduled in the Financial Services Institutions. However, details about that are mentioned in the last chapter.

The guide has the following chapters:

- Data Flow in DIH: This chapter explains the flow of data in DIH.
- Logging into DIH and common functionalities: This chapter explains how to login to DIH and common functions such as modifying, viewing and deleting, using Parameter as an example.
- Setting up Platform and Parameters: This chapter explains how to configure and edit the platform and parameters.
- **Defining Source Systems:** This chapter explains how to define the External Data Store information.
- External Data Descriptor: This chapter explains how to define the source table/file, and adding the different components
- Setting ADI: This chapter explains how to configure the ADI for viewing an OFSAA Data Interface
- **Mapping EDD between ADI:** This chapter explains how to map one or more EDDs to ADI and how to create and view a connector
- **Refresh:** This chapter explains about the Refresh feature in DIH.

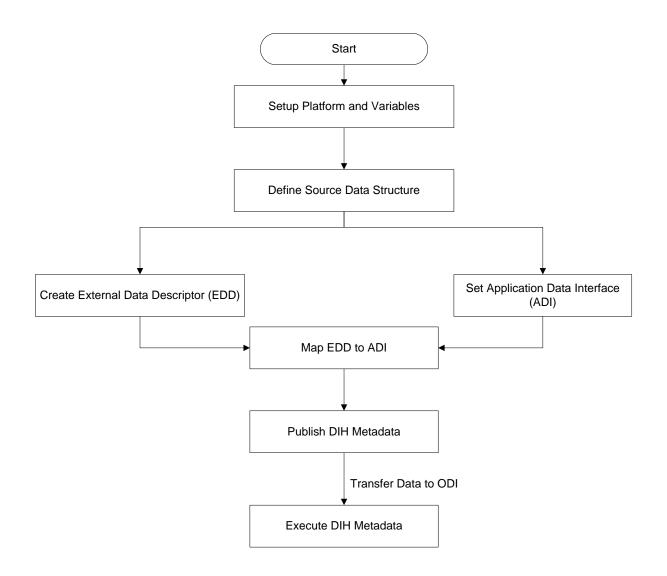
- **Publishing DIH Metadata:** This chapter explains how the DIH metadata is transferred to Oracle Data Integrator (ODI).
- **Executing DIH Metadata:** This chapter explains as to how after publishing, the scheduled batches are executed.
- **Execution History:** This chapter provides information about the execution history.
- Metadata Browser: This chapter details the metadata browser.

2 Data Flow in DIH

This chapter provides high-level information of the data flow used in DIH.

2.1 DIH Dataflow Diagram

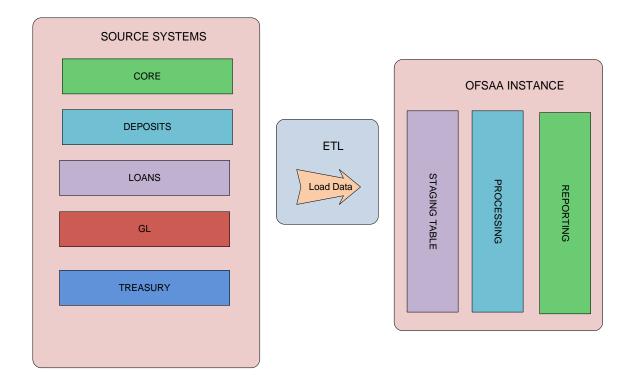
The following is the DIH data flow diagram:



For mapping between the EDD and ADI, you need to define the parameter place holder (optional), set up the source, define the EDD, and then connect the EDD and ADI. ADI is auto seeded from the OFSA Applications data models that are installed.

2.2 Data Flow Environment Without DIH

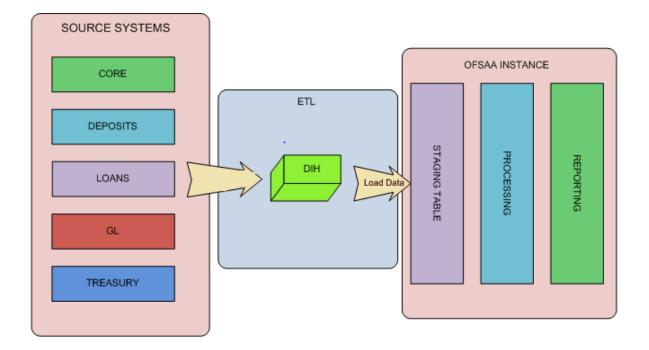
In this data flow environment diagram without DIH, the data is loaded from the source systems, to the server in which OFSA Applications are installed (OFSAA Instance). In the OFSAA Instance, data is loaded into the staging table.



2.3 Data Flow Environment With DIH

The DIH is then used to pull data directly from the source tables, to the OFSAA staging tables.





3 Logging into DIH and Common Functionalities

In this chapter, details on how to log into the DIH application are explained. There are a few common functionalities which are used in different modules of DIH. To avoid repetition, these functionalities are explained under <u>Common Functionalities</u> section, taking Parameter as an example.

This chapter has the following sections:

- Logging into DIH
- Common Functionalities

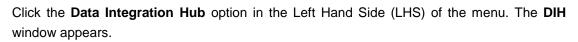
3.1 Logging into DIH

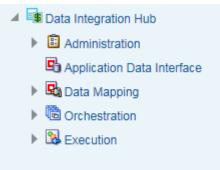
Access the DIH application using the login credentials (User ID and password). The built-in security system ensures that you are permitted to access the window and actions based on the authorization only.



After logging into the application, the following window appears:

Applications Object Administration System Configuration & Identity Management My Inbox Select Applications Image: Configuration & Identity Management My Inbox Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuration Hub Image: Configuratin Hub		al Applications	
	Select Applications Financial Services Data Integration Hub	Data Integration Hub Data Integration Hub Data Integration Hub Data Integration Administration Administration Data Mapping Data Mapping Execution	Application Data Interface





The DIH has the below five sub links for data mapping:

Administration

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- Application Data Interface
- Data Mapping
- Orchestration
- Execution

3.2 Common functionalities

You can modify, view, delete, and find dependencies of a Parameter, Source, EDD, ADI, and Connectors. Following sections explains how this is done, taking the example of a parameter.

3.2.1 Modifying a Parameter

You can edit an existing Parameter, other than the Parameter name.

To edit a Parameter:

- 1. Select the checkbox adjacent to the Parameter name.
- 2. Click Edit Z button from the tool bar. The *edit parameter* window appears.
- 3. Only the Parameter description, Parameter Type and the Value can be edited in this window. Update the required details.
- 4. Click **Submit** to save the changes made.

3.2.2 Viewing a Parameter

You can view a Parameter at any given point. To view an existing Parameter:

- 1. Select the checkbox adjacent to the Parameter name.
- 2. Click View button from the tool bar.

The View parameter window displays the details of the selected Parameter.

3.2.3 Deleting a Parameter

This option only checks the higher order object. That is, if the order has dependency, you cannot delete unless the dependency is removed.

Example: Assume Parameter is used in Connector. Then, unless that Connector is deleted, the used Parameter cannot be deleted.

To delete an existing parameter:

- 1. Select the checkbox adjacent to the Parameter name.
- 2. Click Delete 🔳 button from the tool bar. A confirmation dialogue appears
- 3. Click **OK**. The Parameter details are deleted.

3.2.4 Dependency

As the name suggests, on clicking the Dependency icon 22, it lists where the entire parent Parameter has dependency. That is, you cannot delete a child file without deleting the parent file.

3.2.5 Search and Filter

The Search and Filter option in the user interface helps you to find the required information. You can enter the nearest matching keywords to search, and filter the results by entering information on the additional fields.

For example: enter the Parameter name as 'GAAP' in the search field.

Click the search icon k to start the search or refresh icon k to reset the search fields.

The entire Parameter name with GAAP is listed.

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			Parameter	rs					9
×	Search								🕼 🖾
Par	rameter Name			GAAP					
8	Parameters			•		9	1 - 5	i / 5 C) C) C) C)	Jump to page
	Name 🔺	Description	Туре	Value	Default Value	Date Format	Status	Last Modified Date	Last Modified By
8	DEFAULT_GAAP	Default GAAP	Constant	USGAA	P		Saved	04-NOV-2014 08:1	1 PM DIHUSER
	MISDATE	Runtime parameter for passing MISDATE at the time []	RunTime				Published	12-SEP-2014 03:0	9 PM DIHUSER
	NOT_AVAILABLE	Not Available	Constant	0			Saved	04-NOV-2014 08:1	1 PM DIHUSER
	OBP_DATA_ORIGIN	Data Origin For OBP	Constant	OBP			Saved	04-NOV-2014 08:1	1 PM DIHUSER
	SRC_SYSTEM_CODE	It holds the source system code.	Constant	DUMMY			Published	24-SEP-2014 11:0	9 AM DIHUSER

4 Setting up the Platform and Parameters

This chapter has the following sections:

<u>Settings</u>

Parameters

4.1 Settings

Setting up the platform and parameters (place holder) is the initial activity in DIH.

The **Settings** option allows in maintaining the Oracle Data Integrator (ODI) setup information and application variables.

Click the **Administration** option from the LHS menu and select **Settings** option. The Settings window appears in the RHS.

Data Integra	tion Hub >	Administration					
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Data Integration H	lub > Administra	tion > Settings					
			Settings			As of Date	: 08/08/2014
* Search							
* Settings						1 - 1 / 1 🔣 🚺 💽 Jum	p to page
ODI User 🛓		Master Repository DB User	Master DB Driver	Master DB Connection	Work Repository	Project	Folder
SUPERVISOR	२	DIHDEV_ODI_REPO	oracle.jdbc.OracleDriver	jdbc:oracle:thin:@10.184.135.6:1521:FSDFDB	DIHREP	OFSAA_CONNECTO	DRS DRM_OFSAA

This window captures the ODI set up information.

4.1.1 Editing the Settings

While editing the Settings, the fields that are displayed are explained below.

Fields and their descriptions

Fields	Description		
Fields marked in red asterisk(*) are mandatory			



Fields	Description
Fields marked in red aster	isk(*) are mandatory
ODI User	The ODI supervisor user name you defined when creating the master repository or an ODI user name you defined in the Security Navigator after having created in the master repository.
ODI Password	The ODI supervisor password you defined when creating the master repository or an ODI user password you defined in the Security Navigator after having created the master repository.
Master Repository DB User	Database user ID/login of the schema (database, library) that contains the ODI master repository.
Master Repository DB Password	This is the user's password.
Master DB Driver	Specifies the driver required to connect to the RDBMS supporting the master repository created from the dropdown list. The default value is oracle.jdbc.OracleDriver. It need not be changed if it is on Oracle database.
Master DB Connection	The URL used to establish the JDBC connection to the database hosting the repository. The format is jdbc:oracle:thin:@ <hostname address="" ip="">:<port Number>:<service name=""></service></port </hostname>
Work Repository	The name of the work repository that has been created previously (Example: <i>WorkRep1</i>).
Project	Specify the Project Name created in ODI.
Folder	Specify the folder name under the project created in ODI so that all packages is created under this location.
Agent URL	Specify the agent URL where the ODI agent is running. This is used to execute a DIH connector from OFSAAI batch/RRF. This is not needed to do data mapping. The format is http:// <hostname address<br="" ip="">where ODI agent is running>:<port Number>/<agent context="" name=""></agent></port </hostname>

Procedure to Edit the Settings



1. Select the ODI User and click Edit Z button from the tool bar. The following window appears.

		Se	ttings	
Settings > Settings (Definition Mode) >				
* ODI Agent				
ODI User *	SUPERVISOR			
ODI Password				
Master Repository DB User *	DHDEV_ODI_REPO			
Master Repository DB Password				
Master DB Driver *	oracle.jdbc.OracleDriver			
Master DB Connection *	jdbc:oracle:thin:@10.184.135.6:1521:FSDFDB			
Work Repository *	DHREP			
* Project Settings				
Project *	OFSAA_CONNECTORS			
Folder *	DRM_OFSAA			
Agent URL	http://10.184.203.158:6789/oraclediagent			
		Save	Cose	
Audt Trail User Comments		Save	CDDe	
* System ID:200040		Save		
	DHUSER DFSAD	Save	Close Creation Date Last Modification Date	07/03/2015 11.27.30 07/03/2015 17.50.47

- 2. Enter the ODI User, Master Repository DB User, Master DB driver, Master DB Connection, Work Repository under the *ODI Agent* tab.
- 3. Under the *Project Settings* tab, enter the Project and Folder fields. The field details are explained as tabulated in the <u>Fields and their Description</u> section.
- 4. Enter the details and click **Submit**.

The *Audit Trail* section at the bottom of the window displays the information of the activities undertaken in this window. The *User Comments* section facilitates you to add or update additional information as comments.

4.2 Parameters

Parameters are place holders and constant values that have different uses in DIH. Click the **Data Mapping** option on the LHS. Select **Parameters** for the screen to appear.



pplications Object Administration Sys	stem Configuration & Identity Manag	ement My Inbox						
Select Applications	Data I	ntegration Hub > Data M	lapping					
Financial Services Data Integration Hub								
A 📑 Data Integration Hub		🔺 🔄 Data Mappi	-					
Administration		Data Mapping						
		F-113						
Settings		Parameters					External Data Store	•
Refresh		Parameters					External Data Store	
Publish/Unpublish Connecto	ors							
Application Data Interface			ata Descriptor				Connector	
Data Mapping		External Da	ta Descriptor			(Connector	
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Object Administration System Configure ect Applications ancial Services Data Integration Hub Total Integration Hub Total Integration Hub Data Administration Stanmistration Standard Administration Stanmistration	wation & Identity Management My Inbox Data Integration Hub > Dat C C C C C C C C C C C C C C C C C C C	Description	Туре	Value	Default Value	Ø ∓ 1- Date Formst Stat	As of Date:	08/08/2014
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Object Administration System Configure ect Applications successful and succes	wration & Identity Management My Inbox Data Integration Hub > Dat s Search Parameter Name	Description Default GAAP Extraction Date	Constant RunTime	Vslue USGAAP		♥ 1- Date Format State Save Save	As of Date:	08/08/2014 © Page Last Modifier DiHUSER DiHUSER
etect Applications anarcial Services Data Integration Hub	Without Management My Inbox My Inbox Data Integration Hub > Data integrat integration Hub > Data integration Hub > Data integra	Description Default GAAP Extraction Date Not Available	Constant RunTime Constant	Value USGAAP 0		I ₹ 1- Date Format Stat Sav Sav Sav	As of Date:	08/08/2014

The uses of Parameters are explained in the following sections.

4.2.1 Parameters in EDD Definition

While defining an EDD, parameter can be used as a place holder in a data filename.

			Parameters				As of Date:	08/08/2014
* Search								🔯 🔊
Parameter Name								
* Parameters					₹	1 - 6 / 6	I 🗶 💽 💭 Jump	to page
Name 🛓	Description	Туре	Value	Default Value	Date Format	Status	Last Modified Date	Last Modified E
DEFAULT_GAAP	Default GAAP	Constant	USGAAP			Saved	07/03/2015 18:09:00	DIHUSER
MIS_DATE	Extraction Date	RunTime				Saved	07/03/2015 17:50:00	DIHUSER
NOT_AVAILABLE	Not Available	Constant	0			Saved	07/03/2015 17:50:00	DIHUSER
OBP_DATA_ORIGIN	Data Origin For OBP	Constant	OBP			Saved	07/03/2015 18:09:00	DIHUSER
PERIOD_NAME	Period Name	RunTime				Saved	07/06/2015 12:17:00	DIHUSER

For example:

Consider a table with 2 columns, such as Account number and Balance.

Account Number	Balance
A1	1000
A2	1000
A3	1000
A1	1000



A2	1500
A3	1500

In the above example, a customer has 3 accounts (A1, A2 and A3).

The customer has deposited different amounts on January 1st and 2nd 2014. The csv data files can be created for those two dates as follows:

- The account transaction for January 1st 2014 is saved as td_contracts_/01012014/.csv
- The account transaction for January 2nd 2014 is saved as td_contracts_/01022014/.csv

If a parameter, MISDATE is defined as a runtime, this can be used as a place holder that substitutes date in mmddyyyy format. That is, the data filename can be mentioned as td_contracts_%#MISDATE%.csv. When this file is called, it substitutes the date in the file name, dynamically, in the run time.

Parameters Data Types need not always be RunTime. They can be Constants or values like Current Date, which can also be used to substitute a value in a data filename.

4.2.2 Parameters in Connector

Parameters are used while defining the mapping, between EDD to ADI. While mapping the ADI to EDD, the fields or columns within the ADI needs to be mapped to the fields in EDD. If there are no corresponding extracts in EDD, parameters can be used to identify the default values for certain ADI elements.

4.2.3 Defining a Parameter

While defining a Parameter, the fields that are displayed are explained as tabulated.

Fields	Description		
Fields marked in red asterisk(*) are mandatory			
Parameter Name	The name for the place holder that you want to define. For example, MISDATE, which can be used as a place holder for Date.		
Parameter Description	The description for the parameter you want to define. In this example, the description can be, "MISDATE can be used to substitute the date values for each day, dynamically, in mmddyyyy format."		

Fields and their descriptions



Fields	Description
Fields marked in red aster	isk(*) are mandatory
Parameter Type	 There are 3 parameter data types: Constant: Constant data type is selected, for substituting a constant value. RunTime: RunTime data type is selected for substituting a value dynamically, in run time. In the example that is used here, MISDATE can be selected as Run Time, because, it is used to make a substitution, dynamically. CurrDate: CurrDate data type is selected for substituting a value as Current System Date.
Value	Only for constant types. Holds the actual value that of the parameter

Procedure to define a Parameter

To define a new Parameter:

1. Click the Add (
^B) button from the tool bar menu. The following window appears.

Parameters		
Parameters Parameters (Definition Mode) >		
* Parameter Definition		
Parameter Name *		
Parameter Description		
Parameter Type	Constant V	
Value *		

2. Enter the Parameter Name and description.

Example: Parameter Name: MISDATE

3. Select the Parameter Type from the drop down list and enter the Value in its respective field.

The fields are explained as tabulated in the Fields and their Description section

4. Enter the above details and click **Submit** to save the changes made.

The *Audit Trail* section at the bottom of the window displays the information of the parameter created. The *User Comments* section facilitates you to add or update additional information as comments.

5 Defining Source Systems

This option enables to define the External Data Store information. DIH supports Oracle database, XML, EBCDIC, Flat file data sources, DB2, SQL server, Sybase, Teradata, and Big data sources such as HDFS and Hive.

Click the **Data Mapping** option on the LHS and select **External Data Store.** The *External Data Store* window appears in the RHS.

	alytical Applications	_	_	_
Applications Object Administration System Configuration	& Identity Management My Inbox			
Select Applications Financial Services Data Integration Hub	Data Integration Hub > Data Mappin A Data Mapping	g		
	Data Mapping Parameters Parameters			External Data Store External Data Store
 ▶ Sale Execution 	External Data De External Data De			Connector Connector
ORACLE [*] Financial Services Analytical Appl	cations		朣	v 📲 v US-English v OFSAD v
Applications Object Administration System Configuration & Identity Manage	nent My Inbox			
Select Applications Data Integration Hub	gration Hub > Data Mapping > External Data Store			
Data Integration Hub Data Integration Administration * Sea	a b	External Data Store		As of Date: 06/08/2014
C Application Data Interface Name	511			
Sa Data Mapping	rnal Data Store			

In the **Source Systems** section of the *External Data Store* window, you can define, edit, and delete a source.

You can make use of the <u>Search</u> option to search for a specific Source.

This chapter has a section named Creating a Source.

5.1 Creating an External Data Store

While creating a Source, the fields that are displayed are explained as tabulated.

Fields and their descriptions

Fields	Description		
Fields marked in red asterisk(*) are mandatory			
Source Name Is the name of the Source we are going to create. Example: USG_FILE_SRC			



Fields	Description
Fields marked in red a	asterisk(*) are mandatory
Source Description	A description for the Source is to be mentioned. Example:The landing zone where all the required files will be arrived for loading data into OFSAA. The available options are:
	 EBCDIC: Extended Binary Coded Decimal Interchange Code (EBCDIC) File is a binary code for alphabetic and numeric characters. FILE: American Standard Code for Information Interchange (ASCII) File is a character-encoding scheme. HDFS: Hadoop Distributed File System (HDFS) is an open source and fundamentally a new way of storing and processing data. It enables distributed processing of huge amounts of data across industry-standard servers that both store and process the data, and can scale without any limits HDFS is Big Data in a raw format. HIVE: Hive provides a mechanism to project structure onto the data in Hadoop. Big data in tabulated format. On selecting this option, all the HIVE type files are displayed. ORACLE DB: An Oracle database (DB) is a collection of data treated as a unit. The purpose of a database is to store and retrieve related information. On selecting this option, all the ORACLE DB type files are displayed. XML: Extensible Markup Language (XML) is a markup language that defines a set of rules for encoding documents. DB2: IBM DB2 is a family of database server products. These products support the relational model. SQL Server: Microsoft SQL Server is a relational database management system. It is a software product with the primary function of storing and retrieving data as requested by other software applications which may run either on the same computer or on another computer across a network. Sybase: Sybase produces software to manage and analyze information in relational databases. Teradata: Teradata Corporation provides analytic data platforms, applications and related services. Its products enable users to consolidate data from different sources and make the data available for analysis.



Fields	Description
Fields marked	in red asterisk(*) are mandatory
	Note: For Db2/SQL Server/Teradata/Sybase to work as source for DIH, Jar files with
	the following JDBC driver classes should be copied into the following paths:
	1. <fic_home>/ficweb/webroot/WEB-INF/lib</fic_home>
	2. <odi_home>/odi/agent/lib</odi_home>
	DB2: com.ibm.db2.jcc.DB2Driver
	SQL Server: com.microsoft.sqlserver.jdbc.SQLServerDriver
	Teradata: com.ncr.teradata.TeraDriver
	 Sybase: com.sybase.jdbc3.jdbc.SybDriver
	These are third party libraries. Therefore, the names of the files may change for each
	version. Refer to the documentation of these databases, for the exact name of the file
	which contains these drivers.
	This field changes depending on the Source type you select.
	For example:
	If the Source type is selected as File, the next field is File Location. In this field, yo
	need to mention the location of the file.
	Example: /landingzone/inputfiles
	If the Source type is selected as HDFS, in addition to File Location, the following fie
	appears:
	HDFS JDBC URL: In this field, you need to mention the URL of the DB.
	Example: hdfs:// <host>:<port></port></host>
	If the Source type is selected as HIVE , in addition to File Location , the following fie appears:
	JDBC URL: In this field, you need to mention the URL of the DB.
	Example: jdbc:hive:// <host>:<port>/<schema></schema></port></host>
	If the Source type is selected as ORACLE DB , the following Fields appear
	URL: In this field you need to mention the URL of the DB
	Note: The JDBC URL of the DB should be defined using the service name of the D
	Instance. For example:
	jdbc:oracle:thin:@// <hostname>:<port>/<servicename></servicename></port></hostname>
	User ID: Enter the User ID or Schema Name
	Note: Only the tables that are a part of this Schema can be defined in the Externation
	Data Descriptor Page.
	Password : Enter a password
	If the Source type is selected as SQL Server, the following Fields appear
	URL: In this field, you need to mention the URL of the DB
	Note: The JDBC URL of the DB should be defined. For example:
	idbc:sqlserver://chostnames\SQLExpress



Fields	Description
Fields marked in red a	sterisk(*) are mandatory
Location	User ID: Enter the User ID
	Password : Enter password.
	Schema: Enter the Schema name
	Note: Only the tables that are a part of this Schema can be defined in the External Data Descriptor Page.
	If the Source type is selected as Sybase, the following Fields appear
	URL: In this field, you need to mention the URL of the DB
	Note: The JDBC URL of the DB should be defined. For example:
	jdbc:sybase:Tds: <hostname>:<port></port></hostname>
	User ID: Enter the User ID
	Password : Enter password
	Schema: Enter the Schema name
	Note : Only the tables that are a part of this Schema can be defined in the External Data Descriptor Page.
	If the Source type is selected as Teradata, the following Fields appear
	URL : where you need to mention the URL of the DB
	Note: The JDBC URL of the DB should be defined. For example:
	jdbc:teradata:// <hostname></hostname>
	User ID: Enter the User ID
	Password : Enter password
	Schema: Enter the Schema name
	Note: Only the tables that are a part of this Schema can be defined in the External Data Descriptor Page.
	If the Source type is selected as DB2 , the following Fields appear
	URL: In this field, you need to mention the URL of the DB
	Note: The JDBC URL of the DB should be defined. For example:
	jdbc:db2:// <hostname>[:<port>]/<database></database></port></hostname>
	User ID: Enter the User ID
	Password: Enter password
	Database: Enter the database name
	Note : Only the tables that are a part of this database can be defined in the External Data Descriptor Page.

Procedure to create an External Data Store

To create a new source from External Data Store window:

1. Click Add 🖻 button from the tool bar. The *External Data Store* window appears.

External Data Store							
External Data Store > External Data Store (Definition Mode)	External Data Store > External Data Store (Definition Mode) >						
External Data Store							
Name *	USG_FILE_SRC						
Description	The landing zone of all the required files for loading into OFSAA,						
Type *	DB2 V						
URL*	jdbc:db2:// <host>[<prope< td=""><td></td><td></td></prope<></host>						
User D*							
Password *							
	Test Connects	2016					
Audit Trail User Comments							
System ID:							
Created By	Cre	eation Date					
Last Modified By	Las	st Modification Date					

- 2. Enter the Source Name. Example: USG_FILE_SRC and enter a description for the same.
- 3. Select the Source Type from the drop down list. Example: File.
- 4. The rest of the fields will change as per the option selected for Source Type. If Source Type is selected as File, The File Location field needs to me mentioned.

The fields are explained as tabulated in the Fields and their Description section.

- 5. Click "Test Connection" to test the connection details (User ID/ Password) for the database types **DB2**, **HIVE**, **Oracle DB**, **SQL Server**, **Sybase**, and **Teradata**.
- 6. Enter the above details and click **Save**.

The *Audit Trail* section at the bottom of the window displays the information of the source created. The *User Comments* section facilitates you to add or update additional information as comments.

6 External Data Descriptor

The External Data Descriptor (EDD) allows defining or registering external source data structures in DIH. The EDD definition can be used for loading and extracting data into/from OFSAA. The control tab is not used for extraction. It is only used when reconciliation is required while loading data into OFSAA.

Click the **Data Mapping** option on the LHS and select **External Data Descriptor.** The *External Data Descriptor* window appears in the RHS.

Applications Object Administration System Configuration & Identi Select Applications	ty Management My Inbox Data Integration Hub > Data Mapping						
Financial Services Data Integration Hub	Data Mapping						
 Application Data Interface Bata Mapping 	Parameters Parameters	External Data Store External Data Store					
Corchestration Execution	External Data Descriptor External Data Descriptor	Connector Connector					

	es Analytical Applications						
	2 11						
lications Object Administration System Config	guration & Identity Management My Inbo						
elect Applications	Data Integration Hub >	Data Mapping > External Data Descriptor					
inancial Services Data Integration Hub	· · · · · · · · · · · · · · · · · · ·						
Data Integration Hub			External Data Descriptor			As of Date:	08/08/2014
Administration							
	* Search						
Application Data Interface	External Data Store Name	>	Name				
Cata Mapping Groupstration	* External Data Desi	criptor			a ee -	1 - 20 / 68 🔇 💽 🕥 Jump	to page
	Name 🛓	Description	External Data Store Name	External Data Store Type	Status	Last Modified Date	Last Modifier
Execution	FLX_ACCOUNTING_	ENTRIES OBP Stage table for Accounting Entries	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_ACCT_MITIGAN	T_MAP OBP Stage table for Account Mitigant Map	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_ACCT_RATE_TI	ERS OBP Stage table for Account Rate Tiers	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_ATTRITION_MA	STER OBP Stage table for Attrition Reason Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_BANK_CODES	OBP Stage table for Legal Entity Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_BRANCH_CODE	S OBP Stage table for Branch Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_BUSINESS_UNI	T OBP Stage table for Org Unit Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_COLLATERAL	OBP Stage table for Collaterals	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_COLLATERAL_N	MASTER OBP Stage table for Collateral Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	* FLX_COLLECTIONS	OBP Stage table for Collections	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_COLLECTOR_C	ONTACT OBP Stage table for Collector Contacts	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_COUNTRIES	OBP Stage table for Country Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_CREDIT_OFFIC	ER OBP Stage table for Credit Officer Master	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_CUST_EMAIL_A	DDR OBP Stage table for Customer Email Address	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_DD_DETAILS	OBP Stage table for Customer Account - Current and	[] OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_DD_TXNS	OBP Stage table for Customer Account Transaction	[] OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_EXCHANGE_RA	TES OBP Stage table for Exchange Rates	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_EXPOSURE_MI	FIGANT OBP Stage table for Exposure Mitigant Mappings	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX_FACILITY_DETA	ILS OBP Stage table for Limits Summary	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER
	FLX FACILITY STRU	ICTURE OBP Stage table for Limit Structure	OBP_STAGE_SRC	ORACLE DB	Saved	07/13/2015 19:03:00	DIHUSER

This chapter has a section named creating an EDD.

6.1 Creating an EDD

While creating an EDD, the fields that are displayed are explained as tabulated.

Fields and their descriptions

In the Source Data tab:



Fields	Description					
Fields marked in red asterisk(*) are mandatory						
Data File Name	You can add multiple data files to an EDD. For example, You need to add Term Deposits Contracts data file. There are Term Deposits Contracts data files for Retail as well as Corporate accounts. Therefore, to get both these details, you first add the Term Deposits Contracts data file for Retail accounts, say, td_contracts%#MISDATE%_1.csv and as the next record, add Term Deposits Contracts data file for Corporate accounts. Example: td_contracts%#MISDATE%_1.csv					
Record Delimiter	 The records are stored differently in different operating systems. The options available are: MS-DOS Unix No Record Delimiter Other With respect to the example, select Unix. 					
Read from template	A template contains all the values and is in Excel file format. If the template is not available, you need to create it manually by clicking the Add $$ button, under <i>Source Data Elements</i> tab. If the template is available, you can browse for the template. Refer to the <u>File SDI Template</u> .					

In the Data Elements tab:

Fields	Description					
Fields marked in red asterisk(*) are mandatory						
Name	Name of the field in EDD. Example: Field name in a file or column name in a table.					
	Note: Field name of XML type should not be more than 25 characters and for others should not be more than 30 characters.					



Fields	Description				
Fields marked in red asterisk(*) are mandatory					
Туре	This shows the Data type of the field.				
	Example: String, Number, EBCDIC and so on.				
Physical Length	This is applicable only for EBCDIC format. This is the length of EBCDIC data type. In case of file, it is length only.				
Logical Length	This is applicable only for EBCDIC format. This is the logical length of EBCDIC data type. It gets automatically calculated in template based EDD creation. In case of file, it is available.				
Precision	It is to specify the decimal point. Example: 10.3.				
Format	It is the format to specify the date format. Example: YYYY-MM-DD. The format should be in capitals.				
Record Type Code	This identifies the Record type in a file where Header, Trailer and Data are of different record length and type. The values can be any string available in the text file. This value is only possible for the first field in a file. Example: The values can be DATA; CTRL to specify it is a control record.				

In the Control tab:

Fields	Description				
Fields marked in red asterisk(*) are mandatory					
File Name Specify the name of the file.					



Fields	Description				
Fields marked in red asterisk(*) are mandatory					
File Format	 There are 2 options: Fixed Length: The file will have records and columns with a fixed length. Each column will have a predetermined and unchanging size, set when the record layout is designed, and the sum of the column sizes will add up to the record size. Delimited: There will be a separation of the 				
	records and columns using a delimiter character like comma, semicolon, hyphen and so on. With respect to the above example, select <i>Delimited</i> .				
Column Delimiter	If the File Format is selected as Fixed Length, the Column Delimiter would by default be Other. If the File format is selected as Delimited, the following options are available in the drop down list. • Other • Space • Semicolon • Comma • Tab With respect to the above example, select <i>Comma</i> .				
Record Type Code	Used to uniquely identify a record within a file. Many times, Bank provides file having data and control record within same file. In that case, in order to distinguish between data record and control record, the first field is Record Type. It has a specific value to identify that. Here, specify the value that identifies the Data. Values can be 'DATA' and so on. For Control record, the value is specified under control tab. Only the first field of a file is used for Record Type.				



Fields	Description					
Fields marked in red asterisk(*) are mandatory						
Record Delimitter	 The records are stored differently in different operating systems. The options available are: MS-DOS Unix No Record Delimiter Other With respect to the example, select Unix. 					
Text Qualifier	It's a character that identifies a text. This is used when some characters exists within a text. Generally, double quotes are used, prefixed and suffixed with a text. This is optional.					
Skip number of records	The number of records to be skipped is to be mentioned. The records are skipped from the top. Generally, this is to skip the Headers.					
Decimal separator	This mentions up to which decimal digit you want to view the result in.					
Record Type Length	This is applicable only for Control records that are of Fixed length. The length of the record type value to pickup the correct record. For example, if control record is "DATATotal Records400" and DATA is the Record type, the length is '4'.					
Control Name Length	Based on the above example, Control name is "Total Records". Hence, the Control Name Length is '13'.					
Control Value Length	Based on the above example, the Control value is 400. Hence, the length of the control Value is '3'					

Procedure to create an EDD

To create a new EDD from the External Data Descriptor window,

- 1. Click the Add 🖻 button from the tool bar. The *External Data Descriptor Specifications* window appears. This screen is divided into two sections, Source Details and External Data Descriptor Specification Details.
- 2. In the Source Details section, select the Source Code from the drop down list. The Source Code is the Source you had created. In this example it is, *USG_FILE_SRC*.

The values in <u>creating an</u> external data store example is used. The description comes up automatically.

NOTE:

- The fields in the External Data Descriptor Specification Details section changes as per the Source Code selected.
- For HDFS data, the working date format is yyyy-MM-dd.
- For Hive table, the working date format is dd-MON-yyyy.
- For Sybase source database, date data type is not supported. It has to be timestamp.
- For file extract, SDI date format is not supported. By default it produces timestamp. If a particular format is required then derived column has to be defined with specific format in connector.

		External Da	ta Descriptor		
External Data Descriptor > External Data Descrip	otor (Definition Mode) >				
* External Data Store Details					
External Data Store Name	DRM_SRC_FILES				
External Data Store Description	Source for DRM File Load Interfaces				
* External Data Descriptor Details					
Name			Description		
Data Control					
Data File Name	•				
File Format	Fixed Length		Record Delimitter	MS-DOS	~
Column Delimiter	Other 🗸		Text Qualifier		
Skip number of Records			Decimal Separator		
Read From Template	O Yes No				
* Data Elements					
Order Name	Туре	Length	Precision	Format	Record Type Code
1	STRING V				
		Save As Draft	Save Close		
Audit Trail User Comments					
System ID:					
Created By			Creation Date		
Last Modified By			Last Modification Date		

3. In the *External Data Descriptor Specification Details* tab, enter the Name and description.

For example:

Name: USG_FILE_EDD

Description: Term deposit data from USG source on daily basis.

In the Source Data tab, enter the Data File Name. In order to add more files to the existing EDD, click the + symbol against the Data File Name field.

Example: td_contracts%#MISDATE%_1.csv

td_contracts%#MISDATE%_2.csv

4. Select the File Format, Record Delimiter, and Column Delimiter from the drop down list.



- 5. Enter the Text Qualifier, Skip number of Records, and Decimal Separator fields.
- 6. For the 'Read from Template' option, on selecting **Yes**, you can browse the required template (only in .xls and .xlsx format). If the template is not available, you need to create it manually by clicking the Add 🖻 button, under *Source Data Elements* tab.

The fields are explained as tabulated in the Fields and their Description section.

Read From Temp	late	Yes No					
Select Template (*.xls,*.xlsx Files Only)	C:\Users\surarama\Des	Browse				
* Source Data	Elements	1					▼ 1 to 10 of 76 C0 C0 C0 C0
Order	Name		Туре	Length	Precision	Format	Record Type Code
1	Account_number		STRING	0	0		
2	Misdate		DATE	0	0	MM/DD/YYYY	
3	Product_code		STRING	0	0		
	Terrer		AN INCOLO	0	0		

- 7. If data needs to be reconciled post loading, then control has to be defined for the EDD by clicking on Control Tab. In this version, only Number of records control is possible.
- 8. Click Save.

7 Setting ADI

Application Data Interface data comes pre-seeded based on the application that is installed.

Application Data Interface enables you to view the logical definition of OFSAA physical entities of staging and Result area. This can be viewed by selecting application and its subtype.

	s Analytical Applications				
lications Object Administration System Config	uration & Identity Management My Inbox				
	anation & identity management in my moox				
ect Applications	Data Integration Hub > Application	n Data Interface			
ancial Services Data Integration Hub	▼				
Solution Hub			Application Data Interface		As of Date: 08/08/20
Administration	* Search				R 2
Application Data Interface	Application		✓ Name		
	Аррисации		• Name		
Data Mapping	* Application Data Interface				1 - 20 / 645 < > > Jump to page
Crchestration	Name A	Description	Applications	Last Modified Date	Last Modified By
Secution	Account Address	Account Address	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Adjustments	Account Adjustments	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Alternate Currency Value		Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Anticipatory Profile	Account Anticipatory Profile	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Beneficiary	Account Beneficiary	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Cash Flows	Account Cash Flows	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Email Address	Account Email Address	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Feature Map	Account Feature Map	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Group Details	Account Group Details	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	* Account Group Master	Account Group Master	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Group Member	Account Group Member	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Identifier Type Master	Account Identifier Type Master	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Inception Rates	Account Inception Rates	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Investment Objective	Account Investment Objective	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Management Master ML	S Account Management Master MLS	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Manager Relationship	Account Manager Relationship	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Mgmt Master	Account Mgmt Master	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Mitigant Map	Account Mitigant Map	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Peer Group	Account Peer Group	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD
	Account Phone	Account Phone	Financial Services Data Foundation	07/03/2015 13:34:00	OFSAD

This chapter has a section named viewing an Application Data Interface.

7.1 Viewing an Application Data Interface

You can view an Application Data Interface at any given point. To view an OFSAA Data Interface:

- 1. Select the **Application** from the drop down list and click on search icon.
- 2. Select the checkbox adjacent to the Application Data Interface name.
- 3. Click the View local button from the tool bar. The *Application Data Interface* window appears.



		Application D	ata Interface						
Application Data Interface > Application Data Interface	(Definition Mode) >								
* Application Data Interfaces									
Applications									
* Application Data Interface Details									
Name *	Account Address		Description			Account Addres	5		
Search Filter									🕰 E
Attribute Name			Domain				~		
Logical View Physical View									
* Application Data Elements				3	Mandatory	?	Only valid for applications	? ₹	1 to 10 of 17 🔇 🚺 D
Attribute Name	Attribute Description			Mandatory ?		Domain	LC	Vs	
Account / Contract Code	This column stores the unique iden	This column stores the unique identifier of the account / contract held by the customer.				Code_Alphanu	meric_Long_Type3		
Account Address Purpose Type	This column stores the Purpose, or usage, of this address relative to this employee. List of values:- M-Mailing, B-Busi			N		Indicator			
Address Line 1	This column stores the first line of the address component of this address.			N		Description			
Address Line 2	This column stores the second line of the address component of this address.			N		Description			
Address Line 3	This column stores the third line of the address component of this address.			N Description					
Address Line 4	This column stores the fourth line of the address component of the address.			N Description					
Address Line 5	This column stores the fifth line of the address component of the address.			N	Description				
Address Line 6	This column stores the sixth line of the address component of the address.			N		Description			
City	This column stores the City name of this address.		N	Description					
	This column stores the Country con	la of this address		N		Code_Short			

- 4. Select one or more Application(s) for the given ADI. The list of applicable attributes is mentioned below under Application Data Elements tab.
- Depending on the ADI selected, there may or may not be additional subtype filters. Such as, for Transactions: Customer Account, there is a Product Class list as subtype filters available. You can choose one or more Product class to filter the attributes listed below.
- 6. Depending on the Application selected, there will be additional filters such as Jurisdiction and Approach for BASEL application.

The Search panel helps to search the attributes based on Attribute name, domain and Staging and Results area. You can search all the relevant attributes for staging and result area.

The Application Data Elements section has 2 tabs

- Logical View
- Physical View

The Logical view shows all the attributes and its associated description with additional information. For example, if the attribute is mandatory or not for the selected application, its domain and LOV (List of values) that are possible for the particular attribute.

The Physical view tab shows the underlying physical table name of the selected ADI. On selecting the physical table name, it shows the mapping between the logical attribute name and its corresponding physical column name.

In case of ADI with subtype such as Customer Account, the physical table name is based on the Subtype. Hence, one or more physical table names may appear

OBP_STAGE_SRO

OBP STAGE SRO

OBP_STAGE_SRO

OBP STAGE SR

Saved

Saved

Saved

FLX_ACCT_MITIGANT_MAP

FLX ACCT RATE TIERS

FLX_OR_APPLICANT

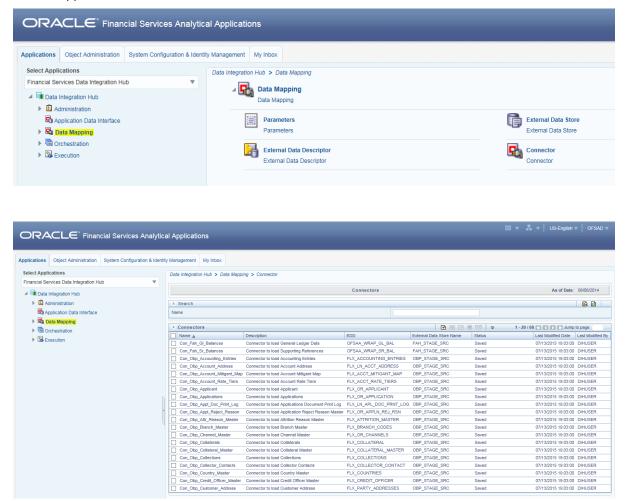
FLX OR APPLICATION

8 Mapping an EDD to ADI

Connector allows mapping one or more External Data Descriptor with Application Data Interface. It allows mapping of one or more ADI with EDD as well, in case of extract type connector.

There are pre-built Connectors for Oracle applications like, Flexcube, Oracle Banking Platform, and so on. For other applications you need to define Connectors for your EDDs.

Click the Data Mapping option on the LHS and select Connector. The Connector window appears in the RHS.



Con_Obp_Account_Mitigant_Map Con_Obp_Account_Rate_Tiers

Connector to load Applicant

Connector to load Applications

 Con_Obs_Appl_Exercisions
 Connector to load Applications
 PL_COR_APPL_CATION
 OEP_STAGE_SRC

 Con_Obs_Appl_Des_Print_LOG
 Connector to load Applications Document Print LOB
 FLX_UN_APP_LOBC: PRINT_LOG
 OBP_STAGE_SRC

 Con_Obs_Appl_Des_Print_LOB
 Connector to load Applications Document Print LOB
 FLX_UN_APP_LOBC: PRINT_LOG
 OBP_STAGE_SRC

 Con_Obs_Appl_Des_Print_LMatter
 Connector to load Application Reach Master
 FLX_UATITITION_MASTER
 OBP_STAGE_SRC

 Con_Obs_Abstr_Master
 Connector to load Application Reach Master
 FLX_CR_VAINEL_CODES
 OBP_STAGE_SRC

 Con_Obs_Constrain_Master
 Connector to load Charteni Master
 FLX_CR_VAINER_CODES
 OBP_STAGE_SRC

 Con_Obs_Constrain_Master
 Connector to load Charteni Master
 FLX_COLLATERAL_MASTER
 OBP_STAGE_SRC

 Con_Obs_Constrain_Master
 Connector to load Collateral Master
 FLX_COLLATERAL_MASTER
 OBP_STAGE_SRC

 Con_Obs_Constrain_Master
 Connector to load Collateral Master
 FLX_COLLATERAL_MASTER
 OBP_STAGE_SRC

 Con_Obs_Constrains
 Connector to load Collateral Master
 FLX_COLLATERAL_MASTER
 OBP_STAGE_SRC

 Con_Obs_Construins
 Connector to load Collateral Master
 FLX_COLLATERAL_MASTER
 OBP_STAGE_SRC

Con Obp Applicant

This chapter has the following sections:

- Creating a Connector •
- Viewing a Connector •

Creating a Connector 8.1

To create a connector the following information should be decided at the beginning. Based on the options the connector functionality varies.



Fields	Description					
Fields marked in red asterisk(*) are mandatory						
Which operation should this connector perform on OFSAA?	This option decides whether the connector will load data into OFSAA or extract data out of OFSAA. This field has two options:					
	 Insert Data – Select this option when connector should load data into OFSAA. This is the default option. 					
	Extract data – Select this option when the connector needs to extract data.					
On which OFSAA module should this operation be performed?	 This field has two options: Staging – When data needs to be loaded or extracted into/from the staging area. Results – When data needs to be loaded or extracted into/from the Result area. 					
For which application (if any) should this connector be mapped?	This is an optional choice to filter source/targets at the beginning.					
For which External Data stores (if any) should the connector be mapped?	This is an optional choice to filter source/targets at the beginning.					

While creating a Connector, the fields that are displayed are explained as tabulated.

Fields and their descriptions

In the Connector Details tab:

Fields	Description			
Fields marked in red asterisk(*) are mandatory				
Connector Name	The name of the Connector to be created. Example: USG File Connector 1			
Connector Description	A description for the Connector is to be mentioned.			



In the Target tab:

Fields	Description
Fields marked in red aster	isk(*) are mandatory
Application	Select the application from the drop down list. Example: FSDF
Application Data Interface	Select the Application Data Interface from the drop down list. Example: Customer Account
Sub Type	Select the Product Class from the drop down list. Example: Term Deposit

In the Properties tab:

The properties by default have some values. For every connector, it needs to be reviewed. Generally, no change is required. If the change is required for every connector then, the default value can be changed in the FSI_DIH_OPTIONS_B table.

The columns name is DEF_	VAL_ID and DEI	TEXT_VAL.
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Fields	Description
Fields marked in red aster	isk(*) are mandatory
Loading mechanism	This option is only applicable for ASCII file source type EDD. This has two options:
	External Table SQLLDR
	Note: If the loading mechanism is selected as External Table, the file should be located in the same place as the database server. Please provide CREATE DIRECTORY role to the atomic schema. And the path/folder used in the directory should be having read, write permission.
DIRECT	Direct path load of SQLLDR. Values can be True and False. By default, it is set as TRUE. Only applicable for ASCII/Text File source type EDD.
Parallel	Parallel option. True means the loading happens with parallel option and False means it happens in sequential way.



Fields	Description
Fields marked in red aster	isk(*) are mandatory
Degree of Parallel	Decides the degree of parallelism.
No: of Errors	Shows the number of errors allowed for the SQLLDR and External Table to proceed. By default it is 0. That means single record fails the job fails.
Maximum Discard	Discarded records allowed for SQLLDR. This needs to be set to a very high number when using multiple subtypes under an ADI. That means it is multiple targets.
ODI FOLDER	By default the value is same as whatever is set under Settings page. The value decides under which folder in ODI repository, the connector will be published. If user needs to have a different folder name than whatever is already set in the settings page, then this value has to be edited before publish.
XML date Format	In this field, you can define the format of the XML Date. Example: MMDDYYYY.
Avoid Partition Exchange	It has 2 values 'Yes' and 'No'. By default it is set as 'No'. The parameter decides if the user wants to avoid Partition Exchange option or not. The partition exchange is used if the target table has partition and the connector execution goes via temp table. Sometimes because of some unknown reason, if the connector execution fails due to partition exchange option, then user has an opportunity to avoid partition exchange by selecting "Yes" in the drop down list.



Fields	Description
Fields marked in red aster	isk(*) are mandatory
Do you want to use Data Pump?	There are two values 'Yes' and 'No'. By default it is set as 'Yes'. If the value is 'Yes', it indicates that the Oracle Database source is loaded into OFSAA using the Data Pump method. Alternatively, the standard way of using DBLink method is followed.
	Note : Provide the following access is required for data pump option.
	- Grant create any directory to Source schema
	- Grant create any directory to target schema
	- Grant execute on DBMS_FILE_TRANSFER
	to target schema
	- Grant execute on utl_file to source schema
Source and Target in Same Environment?	This parameter is used only if Data Pump is used. If the value is 'Yes' then file transfer step is not performed during loading. Alternatively, it will transfer file from source to target folder using DBLink.
Source Dump Location	Specify a folder/path that is accessible by Source Oracle Database to create the dump file.
Target Dump Location	Specify a folder/path that is accessible by Target Oracle Database to read the dump file.
Number of Splits for Dump File	Specify a number to transfer the files in parallel chunks. For example, three, indicates that dump file will be split in three and transferred separately. This is to improve performance of file transfer.



Fields	Description
Fields marked in red asteri	sk(*) are mandatory
Effective Dated Key for Result Area?	This parameter is used for loading data into the result area. It decides whether it will perform lookup into dimension for latest record, or effective dated record. To get the latest record, it appends f_latest_record_indicator ='Y' and for effective dated it appends mis_date between d_record_start_date and d_record_end_date. The default value is No . That indicates that it will append f_latest_record_indicator='Y'. Note: For extraction data or any date attribute, effective dating does not work. If this parameter is selected as "Yes" and any date field needs to be loaded into Extraction date or any other date field, then do not rely on surrogate key generation. Use derived column and enter the value in the format "YYYYMMDD" as a number.

8.1.1 Creating a Connector for Loading Data into Staging

To create a Connector for loading data into staging follow the below steps:

- 1. Navigate to **Data Mapping > Connector.**
- 2. Click the Add 🖻 button from the tool bar. The *Connectors Definition* window appears.
- 3. The Definition tab provides the option to load and extract data. The options **Insert** data and **Staging** are selected by default.
- 4. Click Next.



	Connectors
Connectors > Connectors (Definition Mode) >	Connocora
* Connector Flow Diagram	
	Definition Source ZX Target Mapping Froperties Summary
	What are the objectives of this connector?
	Which operation should this connector perform on OFSAA? *
	Insert data O Extract data
	On which OFSAA module should this operation be performed? *
	Staging O Results
	For which applications (if any) should this connector be mapped?
	For which External Data Stores (if any) should this connector be mapped?
	Close Next

5. The "Source" block of the flow chart is selected and the respective fields are displayed by default.

Connectors							
Connectors > Connectors (Definition Mode) >							
* Connector Flow Diagram							
	4	Definition		Mapping Properties	Summary		
* Connector Details							
Connector Name *	Con_Fah_GI_Balances						
Connector Description	Connector to load General Le	dger Data					
* EDD Selector							
Available				Selected			
CEO00 COUNTING_ENTRES CFLX_ACCOUNTING_ENTRES CFLX_ACCT_UNDANT_UAP CFLX_ACCT_UNDANT_UAP CFLX_ATRINOL_MASTER CFLX_ATRINOL_M		- 		CODS	L		
* Selected EDD						□ □ マ	
EDD	External Data Store Name	External Data Store Description			External Data Store Type		
OFSAA_WRAP_GL_BAL	FAH_STAGE_SRC	Staging Source for Oracle Fusion Accounting Hub			ORACLE DB	(IOFSAA_WRAP_GL_BAL).FIC_MIS_DATE IS NULL OR (OFSAA_WRAP_GL_BAL).FIC_MIS_DATE = #OFSAA_CONNECTORS MIS_DATE) and (OFSAA_WRAP_GL_BAL).PERIOD_NAME = #OFSAA_CONNECTORS.PERIOD_NAME	
		Previous	ave	Close Next			

Note: When the Insert data option is selected, the EDD becomes source and ADI becomes target. Similarly, if Extract Data option is selected, then ADI becomes source and EDD becomes target.

- 6. Enter the Connector Name and description. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- 7. Under the **EDD Selector** section, the available EDD's are listed. Select the required EDD in order to map it. The selected EDD's are displayed in the 'Source' section as displayed in the above figure.
- 8. In case multiple EDDs are selected, **Add Join** section appears below with selected EDDs appearing on the left and right side. Select the fields from the Left and right



side, and join the fields. If LOOKUP is required, then check the lookup checkbox has during the mapping.

* Selected EDD							
EDD EDD	External Data Store Name	External Data Store De	scription			External Data Store Type	Filter Expression
OFSAA_WRAP_GL_BAL	FAH_STAGE_SRC	Staging Source for Ori	cle Fusion Accounting Hub			ORACLE DB	(IOFSAA_WRAP_GL_BALJFIC_MIS_DATE IS NULL OR [OFSAA_WRAP_GL_BALJFIC_MIS_DATE = #OFSAA_CONNECTORS_MIS_DATE) and [OFSAA_WRAP_GL_BALJPERID_NAME = #OFSAA_CONNECTORS_PERIOD_NAME 2
FLX_ACCOUNTING_ENTRIES	OBP_STAGE_SRC	Staging Source for On	acle Banking Platform			ORACLE DB	2
Add Join							
Left Entity OFSAA_WRAP_	_GL_BAL				Right Entity	FLX_ACCOUNTING_ENTRIES	
Columns					Columns		
FIC_MIS_DATE					ORG_UNIT_CODE		
D_DWNLD_DATE			~		EVENT_ID		
PERIOD_NAME				Lookup	ENTRY_ID		
LEDGER_NAME					FIC_MIS_DATE		
BALANCE_TYPE				[=]	TXN_REF_NO		
V_SCENARIO_CODE					EVENT_SEQ_NO		
CHART_OF_ACCOUNTS_D			~]=E	TXN_SUB_SEQ_NUM		· · · · · · · · · · · · · · · · · · ·
V_CCY_CODE					TXN_EVENT_CODE		
			M				(M
* Joins							
Left Entity	Right Entity	Lookup J	oin Expression	_			
			Previoue		Thee Next		

9. To edit the filter expression, click Z icon. The *Specify Expression* window appears. Select/key in the required expression and click **OK**.

	Express	ion		
NH > Expression >				
Expressions				1
Entities		Functions	Operators	
DATA ENTITIES USG_FILE_SDI_10118 Account_number Misdate Product_code Tenor Total_fee_charges Total_revenue Acct_manager_code Interest_method GL_code		Database Functions Data and Time To_CHAR (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_DATE (STRING,FORMAT) CASS (NUMBER) ACOS (FLOAT) ASIN (FLOAT) ATAN (FLOAT) ATAN2 (FLOAT) COS (FLOAT) COS (FLOAT) COS (FLOAT) EXP (FLOAT)	Operators Arithmetic Concatenation Comparison	
Expression				Ð
USG_FILE_SDI_10118.Product_code = 'TDEP'				
	QIIm	Cancel		

NOTE:

- You do not need to add 'WHERE' clause for the filter.
- For File data loading, use filter expression of Number type along with single quotes. For example: N_DRAWN_AMOUNT ='40000'.
- For Date field refer To_CHAR function for comparison.

SDI SDI	Source Name	Source Description	Source Type	Filter Expression
USG_FILE_SDI	FILE_SDI USG_FILE_SRC The landing zone where all the required files will be arrived for loading data into OFSAA		FILE	USG_FILE_SDI_10118.Product_code = 'TDEP' 2

10. Click Next. The 'Target' block appears.

11. Select Application Data Interface from the available list in the left panel. Import that to right side of the panel. The Selected ADI grid shows the selected ADIs along with filter expression. The filter on target can be applied by clicking the filter expression. The Fields and details are explained as tabulated in "Fields and their descriptions" section.

Note: If multiple sub types/ADI is selected, then the filter expression is necessary to direct required data into the correct entity/table.

This is required to identify which record goes into which target. It will be an expression such as <EDDNAME>.<Field Name> = 'TD' under Term deposit and <EDDNAME>.<Field Name> = 'CARDS' under Cards.

Connector Flow Diagram							
		efinition	t - [- р м.	apping Properties Sur	mary	
* Connector Details							
Connector Name *	Con_Fah_Gl_Balances						
Connector Description	Connector to load General Ledger [Data					
ADI Selector							
Available			_		Selected		
ADIs			^		- ADIs		
Account Address					🛨 🔲 General Ledger Data		
Account Adjustments				-			
Account Alternate Currency Values				Ð			
Account Anticipatory Profile				-			
Account Beneficiary				E .			
Account Cash Flows							
+- Account Email Address			~				
- Account Feature Man							
			iMi 👘				
Selected ADI						T	
ADI Subty		Description				Filter Expression	
General Ledger Data Gener	ral Ledger Data	General Ledger Data				2	
		Previous	Save	Ck	Next		
Audit Trail User Comments							
* System ID:202191							
Created By	DIHUSER			Creat	tion Date	07/13/2015 19:03:53	
Last Modified By	DIHUSER			Last	Modification Date	07/13/2015 19:03:53	

12. Click the **Mapping** block in the flow chart, to map the EDD's. For details on Automapping refer to section <u>Auto-mapping</u>.



* Connector Flow Diagr	am										
			Definition	Source	2% Target		Mapping P	operties 😽 Summ	IATV		
			e								
* Connector Details											
Connector Name *		Con_Fah_GI_Balances									
Connector Description		Connector to load General	Ledger Data								
* Mapping											3
	OFSAA_WRAP_GL_BAL	~					Target:	General Ledger Data	~		1
Fields					Unmapped?		Attributes		Unmapped?	Mandatory?	 Only valid for applicat
FIC_MIS_DATE					~		Amount MTD in Accou				
D_DWNLD_DATE							Amount MTD in Local				
PERIOD_NAME							Amount YTD in Accou				
LEDGER_NAME							Amount YTD in Local				
BALANCE_TYPE V_SCENARIO_CODE							Amount in Accounting Amount in Local Curre				
CHART_OF_ACCOUNTS_ID						[=]	Branch Code (m)	ncy			
V_CCY_CODE							Business Unit code				
V_FINANCIAL_ELEMENT_CO	DF				_]=E	Common Chart of Acc	ouots (m)			
V_COMMON_COA_CODE							Consolidation Flag (m				
V_GL_TYPE							Currency Code (m)				
N_AMOUNT_LCY							Customer Class Code				
N_AMOUNT_ACY							Data Origin				
N_AMOUNT_MTD_LCY					~		Extraction Date				
N ANOUNT UTD ACY							Eineneist Element Cod	a (m)			
					00						
Column Mapping									Import Mapping	- 100 10	1 to 10 of 20 🔀 🚺 🚺
Source Entity	Source	Field	Express	ion					Target Entity	Target Fi	eld
OFSAA_WRAP_GL_BAL	N_AMO	DUNT_ACY							General Ledger Data	Amount i	n Accounting Currency
OFSAA_WRAP_GL_BAL	N_AMO	DUNT_LCY							General Ledger Data	Amount i	n Local Currency
OFSAA_WRAP_GL_BAL	N_AMO	UNT_MTD_ACY							General Ledger Data	Amount I	MTD in Accounting Currency
OFSAA_WRAP_GL_BAL	N_AMO	UNT_MTD_LCY							General Ledger Data	Amount I	MTD in Local Currency
OFSAA_WRAP_GL_BAL	V_BRA	NCH_CODE							General Ledger Data	Branch C	lode
OFSAA_WRAP_GL_BAL	V_COM	IMON_COA_CODE							General Ledger Data	Common	Chart of Accounts
OFSAA_WRAP_GL_BAL		SOLIDATION_FLAG							General Ledger Data	Consolida	ation Flag

- 13. Select the EDD from the drop down list. For details on drop-down options for EDD refer to section <u>Options in Mapping EDD</u>.
- 14. Select the 'Mandatory' option to populate the mandatory Attributes to be mapped.

Note: On selecting 'Derived Column' option as EDD from the drop down list, you can add an expression.

All the mapped attributes are listed under the 'Column Mapping' sector. For details on the options in the Mapping grid such as Auto-mapping, Export to Excel and so on; refer to section <u>Fields in Mapping</u>.

Note: If the application is chosen as BASEL, while mapping, you can select the type of approach (such as, IRB or Advanced Approach) and the Jurisdiction (BIS, BRAZIL, China, India and so on) for filtering.

* Mapping									3
SDI:	EBCDIC_FILE	•		Approach		×	Jurisdiction		~
Fields				Attributes	Standardised Securitized - Advanced	^	Unmapped?	andatory?	Only valid for applications?
PREX_HDR_RECORD_TYPE				Agreement Flag (m)	Approach				*
PREX_HDR_CREATION_DATE				Basis Risk Weight (m)	Securitized - IRB	=			
PREX_HDR_CREATION_TIME				CDS Reference Entity Part					-
FILLER					Formula Approach	Ŧ			1
				Central Counterparty Code (
				Cleared Transaction Bank R	ole Code (m)				
			[=]	Cleared Transaction Flag (m	I)				
				Country Code (m)					
]=E	Credit Event Indicator for re	structure (m)				
				Currency Code (m)					
				Dilution Risk Mitigant Indicat	tor (m)				
				Eligibility Flag (m)					
				Eligible Mutual Fund Indicato					
		W		Eligible Non Main Index India					
				Equity Main index Indicator	(m)				-
p		ur de la companya de	1	•		11	1		•
									M



15. Click the **Properties** block in the flow chart. The Properties related fields and the Connector details appear automatically.

				Connectors		
Connectors > Connectors (Definition M	ode) >					
* Connector Flow Diagram						
		ð	Definition	K Target - Mapping -	Properties Summary	
* Connector Details						
Connector Name*		Con_Fah_Gl_Balances				
Connector Description		Connector to load General Ledg	jer Data			
* Properties						
Loading Mechanism	O External Te	ible 🖲 SQLLDR	Direct	True	Parallel	True V
Degree of Parallel	5		No. Of Errors	0	Maxmium Discard	1
ODI Folder	DRM_OFSAA		XML Date Format	YYYYY-MM-00	Avoid Partition Exchange	No
Do you want to use Datadump ?	Yes	~	Source and Target in Same Environment ?	Yes 🗸	Source Dump Location	/srctmp
Target Dump Location	Aarget/tmp		Number of Splits for Dump file	3	Effective Dated Key for Result Area?	No
				revious Save Close Next		

- 16. Select the Loading Mechanism. Select the Direct and Parallel option from the drop down list. Key in the value for Degree of Parallel, No: of Errors, Maximum Discard, ODI Folder, XML Date Format, Do you want to use Data Pump?, Source and Target in Same Environment?, Avoid Partition Exchange, Source Dump Location, Target Dump Location, and Number of Splits for Dump File. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- 17. Click the **Summary** block in the flow chart to view the summary of all sections.

			Connectors		
Connectors > Connectors (Definition Mo	de) >				
* Connector Flow Diagram					
		Definition Source SX Target	Mapping Properties	Summary	
* Connector Details					
Connector Name *	Con_Fah_GI_Balance	88			
Connector Description	Connector to load Ge	eneral Ledger Data			
× Properties					
* Selected EDD					
EDD	External Data Store Name	External Data Store Description	External Dat	a Store Type Filter Expression	
OFSAA_WRAP_GL_BAL	FAH_STAGE_SRC	Staging Source for Oracle Fusion Accounting Hub	ORACLE DE		MIS_DATE IS NULL OR MIS_DATE = #OFSAA_CONNECTORS.MIS_DATE) and DD_NAME = #OFSAA_CONNECTORS.PERIOD_NAME
FLX_ACCOUNTING_ENTRIES	OBP_STAGE_SRC	Staging Source for Oracle Banking Platform	ORACLE DE	· · · · ·	
* Selected ADI					
ADI	Subtype	Description		Filter Expression	
General Ledger Data	General Ledger Data	General Ledger Data			
* Joins					1.1
Left Entity	Right Entity	Lookup Join Expression			
Column Mapping					▼ 1 to 10 of 20 ≪ < > >
Source Entity	Source Field	Expression		Target Entity	Target Field
OFSAA_WRAP_GL_BAL	N_AMOUNT_ACY			General Ledger Data	Amount in Accounting Currency
OFSAA WRAP GL BAL	N AMOUNT LCY			General Ledger Data	Amount in Local Currency
OFSAA_WRAP_GL_BAL	N_AMOUNT_MTD_ACY			General Ledger Data	Amount MTD in Accounting Currency
OFSAA_WRAP_GL_BAL	N_AMOUNT_MTD_LCY			General Ledger Data	Amount MTD in Local Currency
OFSAA_WRAP_GL_BAL	V_BRANCH_CODE			General Ledger Data	Branch Code
OFSAA_WRAP_GL_BAL	V_COMMON_COA_CODE			General Ledger Data	Common Chart of Accounts
OFSAA_WRAP_GL_BAL	F_CONSOLIDATION_FLAG			General Ledger Data	Consolidation Flag
OFSAA_WRAP_GL_BAL	V_CCY_CODE			General Ledger Data	Currency Code
OFSAA WRAP GL BAL	V FINANCIAL ELEMENT COD	E		General Ledger Data	Financial Element Code

18. Click **Publish**. This converts DIH metadata into ODI objects.

The Audit Trail section at the bottom of the window displays the information of the source created. The User comments section facilitates you to add or update additional information as comments.



		Connec	tor	S				0
* Search								
ADI		•		Name				
* Connectors					🗑 💶 👳	41 - 4	5/45 😋 🕄 🖸 🖸 💭 Jum	p to page (
🛅 Name 🔺	Description		SD	ы	Source Name	Status	Created Date	Last Modified Da
Test Execution Connector TD	Test Executi	on Connector TD	TE	ST_EXEC_TD	OFSAA_FILES	Published	20-OCT-2014 08:10 PM	
Test expression			EX	CHG_RATE_HIST	OFSAA_FILES	Saved	22-OCT-2014 05:10 PM	
Test Long Length						Published	29-SEP-2014 04:09 PM	
TESTCON2			TE	ST2	OFSAA_FILES	Published	21-OCT-2014 05:10 PM	
USG File Connector 1	Connector fo	r mapping Term deposits data in a comm[]	US	G_FILE_SDI	USG_FILE_SRC	Published	28-OCT-2014 12:10 PM	
and the				3				

8.1.2 Creating a Connector for Extracting Data from Staging

To create a Connector for extracting data from staging follow the below steps:

- 1. Navigate to **Data Mapping > Connector.**
- 2. Click the Add 🖻 button from the tool bar. The *Connectors Definition* window appears.
- 3. The Definition tab provides the option to load and extract data. The Extract data option enables you to extract the data from the OFSAA system. Additionally, you have the option to select whether the loading/extracting should be performed in the Staging or Results area. Click Next.
- 4. Select Extract data and Staging.

	Connectors	
Connectors > Connectors (Definition Mode) >		
* Connector Flow Diagram		
	Celetion Celetion Source - Ex Target - F Mapping - F Properties - C Summry	
	What are the objectives of this connector?	
	Which operation should this connector perform on OFSAA? *	
	O Insert data Extract data	
	On which OPSAA module should this operation be performed? *	
	Staging OResults	
	For which applications (if any) should this connector be mapped?	
	×	
	For which External Data Stores (if any) should this connector be mapped?	
	v	
	Close Next	
Audt Trail User Comments		
System ID:		
Created By	Creation Date	
Last Modified By	Last Modification Date	

5. Click Next. The Source block appears.



		С	onnect	tors	
Connectors > Connectors (Definition Mode) >					
Connector Flow Diagram					
	Defi	inition		Mapping Properties Si	ummary
* Connector Details					
Connector Name *	USG_FILE_CONNECTOR				
Connector Description	Connector for mapping term deposits	data in a comma separated file to be loaded into TD c	ontracts of	f OFSAA	
ADI Selector					
Available				Selected	
Ota O		^ •	e B	Leads	
* Selected ADI					🖻 🛛
ADI Subtyp	e	Description			Filter Expression
		Previous S	ave	Close Next	
Audit Trail User Comments					
☆ System ID:					
Created By			Cri	reation Date	
Last Modified By			La	ast Modification Date	

Note: When the Extract data option is selected, the ADI becomes the source and EDD becomes target. Only ADIs relevant to staging area are displayed.

- 6. Enter the **Connector Name** and **Connector Description**. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- 7. Under the **ADI Selector** section, the available ADI's are listed. Select the required ADI in order to map it. The selected ADI's are displayed in the **Source** grid.

				Co	onnecto	ITS			
Connectors > Connectors (Definition Mode) >								
Connector Flow Diag	gram								
			efinition	et		lapping Properti	es 🚽 🗖	Summary	
& Connector Details									
Connector Name*		USG_FILE_CONNECTOR							
Connector Description		Connector for mapping term depos	ts data in a comma separated file to be loaded into	o TD cor	ntracts of	OFSAA			
ADI Selector Available						Selected			
ADIs				-		- ADIs			
Account Address				^		Account Adjustmen	te		
+ Account Alternate						+ Account Cash Flow			
+ Account Anticipate					E+		3		
+ Account Beneficia									
+ Account Email Add					E:				
+ Account Feature I									
+ Account Group De				~					
+ Account Group Ma	aster								
				iMi					
8 Selected ADI									
ADI	Subt	VDe	Description					Filter Expression	
Account Adjustments	Acci	ount Adjustments	Account Adjustments					2	
Account Cash Flows	Acc	ount Cash Flows	Account Cash Flows					2	
8 Add Join									
Left Entity	Account Adjustments	~				Right Entity	Account Cash Flo	ws 🗸	
Columns				_		Columns			
Account Number						Account / Contract Code			
				^					

 If multiple ADIs are selected, Add Join section appears below with selected EDDs appearing on the left and right side. Select the fields from the Left and right side, and join the fields. If LOOKUP is required, then check the lookup checkbox has during the mapping.



* Selected ADI								□ 🛱 🗸	-
ADI	Subtype	Description				F	iter Expression		
Account Adjustments	Account Adjustments	Account Adjustments					2		
Account Cash Flows	Account Cash Flows	Account Cash Flows					2		
* Add Join									
Left Entity Ac	count Adjustments 🗸				Right Entity	Account Cash Flows	~		
Columns					Columns				
Adjustment Approver Remarks	-				Account / Contract Code				
Adjustment Approver User Ident	ifier		^		Cash Flow Amount				^
Adjustment Entry Date			- 1	Lookup	Cash Flow Date				
Adjustment Entry Status				Country	Cash Flow Sequence				
Adjustment Entry User Identifier				E=1	Cash Flow Type				
Adjustment Entry User Remarks					Common Coa Code				
Adjustment Status Date]=E	Currency Code				
Adjustment Version Identifier			~	1-L	Currency type code				~
Adjustment process status					currency type code				
			ιM						M
* Joins									
Left Entity	Right Entity	Lookup Join Expression							

9. To edit the filter expression, click ^I icon. The *Specify Expression* window appears. Select/key in the required expression and click **OK**.

H > Expression >	Expression		
Expressions			
ntities	Functions	Operators	
DATA ENTITIES USG_FILE_SDI_10118 CAccount_number Misdate Product_code Tenor Total_fee_charges Total_revenue Acct_manager_code Interest_method GL_code	- TO_DA 日 過。Mather - ABS (N - ACOS - ASIN (- ATAN (Ind Time HAR (STRING,FORMAT) ATE (STRING,FORMAT) matical JUMBER) (FLOAT) E (FLOAT) 2 (FLOAT) 2 (FLOAT) FLOAT) FLOAT)	
xpression			2
ISG_FILE_SDI_10118.Product_code = TDEP			

NOTE:

- You do not need to add 'WHERE' clause for the filter.
- For File data loading, use filter expression of Number type along with single quotes. For example: N_DRAWN_AMOUNT ='40000'.
- For Date field refer To_CHAR function for comparison.
- 10. Click **Next.** The 'Target' block (in Flow chart) appears.
- 11. Select External Data Descriptor from available list shows left panel. Move that to right side on selected panel. The Selected EDD grid shows the selected EDDs along with the filter expression. The filter on target can be applied by clicking the filter expression. The Fields and details are explained as tabulated in "Fields and their descriptions" section.

Note: For extract type of connector, only one EDD should be selected. It does not support multiple EDD.



			Co	nnecto	rs		
Connectors > Connectors (Definition Mod	e) >						
* Connector Flow Diagram							
	() ()	efinition	Σ% Target		lapping	Summary	
* Connector Details							
Connector Name *							
Connector Description							
ADI Selector							
Available Available Common Coa Hier Iniff Master Common Coa Master Customer Account Customer Account CASA Contracts Cards Cards Cards Foreign Exchange Contracts			r E M	₽ ₽	Selected ADIs Customer Account Annuity Contracts Bills Contract	и	=
Selected ADI							T
ADI	Subtype	Description				Filter Expression	
Customer Account	Annuity Contracts	Customer Account				2	
Customer Account	Bills Contract	Customer Account				2	
			Previous Sav	e C	lose Next		

12. Click the **Mapping** block in the flow chart, to map the EDD's. For details on Automapping refer to section <u>Auto-mapping</u>.

				С	onnecto	ors					
Connectors > Connector	ors (Definition Mode) >										
* Connector Flow I	Diagram										
		4	Definition	Source		lapping Prop	erties	Summary			
* Connector Detail:	5										
Connector Name *		USG_FILE_CONNECTOR									
Connector Description		Connector for mapping term de	posits data in a comma	separated file to be loaded into TD c	ontracts of	OFSAA					
* Mapping											3
Source:	Account Adjustments	~				Target:	FLX_ACCT_	MITIGANT_MAP	~		
Attributes		Unmapped?	Mandatory?	Only valid for applications?		Fields					Unmapp
Account Number (m)						MITIGANT_WEIGHT					
Adjusted Column Identi	fier (m)			^		MITIGANT_CODE					
Adjustment Approver I						ACCOUNT_NUMBER					
Adjustment Approver I						FIC_MIS_DATE					
Adjustment Entry Date											
Adjustment Entry Statu					[=]						
Adjustment Entry User					r=1						
Adjustment Entry User	Remarks				3.5						
Adjustment Status Dat	0]=E						
Adjustment Version Ide	entifier (m)										
Adjustment process st	atus										
Date Value											
GAAP Code (m)											
Information Date (m)				~							
Load Dua Identifier (m											
				đů							
									Import Mappin	 	1 to 0 of 0 🚺 🚺 D
* Column Mapping											

13. Select the ADI from the drop down list. There are 3 options in the drop down list. For details on options for ADI refer to section <u>Options in Mapping ADI</u>.

Note: For extract connector, mandatory attributes are not applicable. There is no validation of mandatory attributes during publish. Mandatory indicator (*) against an attribute for ADI is for reference only. All the mapped attributes is listed under the 'Column Mapping' sector.



* Mapping										3
Source:	Account Address	~				Target:	FLX_ACCT_RATE_TIERS	~		
Attributes		Unmapped?	Mandatory?	Only valid for applications?		Fields				Unmappe
Account / Contract Code (INTEREST_RATE_CD				
Account Address Purpos	Туре			^		INTEREST_TYPE				
Address Line 1						SORT_ORDER				
Address Line 2						INT_FREQ_UNIT				
Address Line 3						INT_FREQ				
Address Line 4					E=1	EOP_BAL				
Address Line 5						EOP_INT_AMT				
Address Line 6					3-E	EOP_PRIN_AMT				
City					1.1	INT_BM_RATE				
Country						INT_RATE_SPREAD				
Extraction Date (m)						CURR_INTEREST_RATE				
Mail Handling Instruction						ORIG_INT_RATE				
Postal Code						GL_CODE				
Region				\checkmark		DATA_ORIGIN				
Convones Number (m)						STACE NAME				
				ιMi						
* Column Mapping								Import M	lapping 🚳 🚱 🔻	1 to 1 of 1 📢 🚺 🚺
Source Entity	5	Source Field	Expression				Tar	get Entity	Targe	et Field
Account Address		Account / Contract Code *					FD	(_ACCT_RATE_TIERS	INTER	EST_RATE_CD
				Previous		lose Next				

14. Select the 'Mandatory' option to populate the mandatory Attributes to be mapped. All the mapped attributes are listed under the 'Column Mapping' sector. For details on the options in the Mapping grid such as Auto-mapping, Export to Excel and so on refer to section <u>Fields in Mapping</u>.

Note: If the application is chosen as BASEL, while mapping, you can select the type of approach (such as, IRB or Advanced Approach) and the Jurisdiction (BIS, BRAZIL, China, India and so on) for filtering.

* Mapping										3
SDI:	EBCDIC_FILE	*			Approach		~	Jurisdiction		~
Fields						Standardised	*	Unmapped?	Mandatory?	Only valid for applications?
PREX_HDR_RECORD_TYPE					Agreement Flag (m)	Securitized - Advanced Approach				*
PREX_HDR_CREATION_DATE					Basis Risk Weight (m)	Securitized - IRB	=			
PREX_HDR_CREATION_TIME					CDS Reference Entity Part	Securitized - Supervisory				-
FILLER						Formula Approach	*			-
					Central Counterparty Code (m					
					Cleared Transaction Bank Role					
				=	Cleared Transaction Flag (m)					
					Country Code (m)					
]=E	Credit Event Indicator for rest	tructure (m)				
					Currency Code (m)					
					Dilution Risk Mitigant Indicator	e (m)				
					Eligibility Flag (m)					
					Eligible Mutual Fund Indicator (
< [+		Eligible Non Main Index Indicat					
			00		Equity Main index Indicator (m					*
					•		n	1		
										(M)

15. Click the Properties block in the flow chart.

The Properties related fields appear. The Connector details appear automatically.

nector Description							
		11					
Properties							
oading Mechanism	O External Te	able 🔘 SQLLDR	Direct	True	Parallel	True	\checkmark
legree of Parallel	5		No. Of Errors	0	Maxmium Discard	1	
DI Folder	DRM_OFSAA		XML Date Format	YYYY-MM-DD	Avoid Partition Exchange	No	~
lo you want to use Datadump ?	Yes	~	Source and Target in Same Environment ?	Yes 🗸	Source Dump Location	/src/tmp	
arget Dump Location	/target/tmp		Number of Splits for Dump file	3	Effective Dated Key for Result Area?	No	~

- 16. No action is required in properties section. Proceed to the summary tab.
- 17. Click the **Summary** block in the flow chart to view the summary of all sections.



				Connectors			
Connectors > Connectors (Definition	Mode) >						
Connector Flow Diagram							
			Defir	nition Source 25 Target From Mapping	perties Su	mmary	
Connector Details							
Connector Name *		Connector1					
Connector Description		Connector for mapping t	erm deposits	data in a comma separated file to be loaded into TD contracts of OFSAA			
Properties							
Selected EDD							
EDD	External E	Data Store Name	Exter	nal Data Store Description	External Data Stor	re Type Filter Expression	
FLX_ACCT_RATE_TIERS	OBP_STA	AGE_SRC	Stagi	ing Source for Oracle Banking Platform	ORACLE DB		
Selected ADI							
ADI	Subtyp	e .		Description		Filter Expression	
Account Address	Accou	nt Address		Account Address			
Column Mapping							1 to 1 of 1 🔣 🖸 🗋
Source Entity	Source	e Field		Expression		Target Entity	Target Field
Account Address	Accou	nt / Contract Code *				FLX_ACCT_RATE_TIERS	INTEREST_RATE_CD

18. Click **Publish**. This converts DIH metadata into ODI objects.

The Audit Trail section at the bottom of the window displays the information of the source created. The User comments section facilitates you to add or update additional information as comments.

			Connec	tors					9
*	Search								B
ADI				٢	Name				
8 (Connectors					₩ 00 	41 - 4	15 / 45 🖸 🚺 🚺 🖸 Jur	np to page
	Name 🔺	Description		SDI		Source Name	Status	Created Date	Last Modified Da
17	Test Execution Connector TD	Test Execution	on Connector TD	TES	ST_EXEC_TD	OFSAA_FILES	Published	20-OCT-2014 08:10 PM	1
	Test expression			EXC	CHG_RATE_HIST	OFSAA_FILES	Saved	22-OCT-2014 05:10 PM	I.
	Test Long Length						Published	29-SEP-2014 04:09 PM	
	TESTCON2			TES	ST2	OFSAA_FILES	Published	21-OCT-2014 05:10 PM	I
V	USG File Connector 1	Connector fo	r mapping Term deposits data in a comm[]	USC	G_FILE_SDI	USG_FILE_SRC	Published	28-OCT-2014 12:10 PM	1
hanned				-	63				

8.1.3 Creating a Connector for Loading Data into Results

To create a Connector for extracting data from staging follow the below steps:

- 1. Navigate to **Data Mapping > Connector**.
- 2. Click the Add 🖻 button from the tool bar. The *Connectors Definition* window appears.
- 3. The Definition tab provides the option to load and extract data. Select **Insert Data** and **Results**. Click **Next**.



	Connectors
Connectors > Connectors (Definition Mode) >	
Connector Flow Diagram	
	Defnition Source ZX Target Mapping Properties Summary
	What are the objectives of this connector?
	Which operation should this connector perform on OFSAA? *
	Insert data O Extract data
	On which OFSAA module should this operation be performed? *
	⊖ Staging ● Results
	For which applications (if any) should this connector be mapped?
	×
	For which External Data Stores (if any) should this connector be mapped?
	Close Next

4. The **Source** block appears by default, and the respective fields are displayed.

			Conn	ecto	rs		
Connectors > Connectors (Definition Mode) >							
* Connector Flow Diagram							
	Č.	Definition	-[} •	Aapping Properties	Summar	у
* Connector Details							
Connector Name*	Con_Fah_GI_Balances						
Connector Description	Connector to load General Leo	iger Data					
* EDD Selector							
Available					Selected		
CODA CONTROLOGITING_ENTRES CPLX_ACCUMITING_ENTRES CPLX_ACCT_MIDANT_MAP CPLX_ACCT_MIDANT_MAP CPLX_ACCT_RATE CPLX_ATRINON_MASTER CPLX_ENANCH_CODES CPLX_ENANCH_CODE		đ		e	EDDs	IAL	
* Selected EDD							
EDD E:	xternal Data Store Name	External Data Store Description				External Data Store Typ	
OFSAA_WRAP_GL_BAL F.	AH_STAGE_SRC	Staging Source for Oracle Fusion Accounting Hub				ORACLE DB	(IOFSAA_WRAP_GL_BALIFIC_MIS_DATE IS NULL OR IOFSAA_WRAP_GL_BALI, FIC_MIS_DATE = #OFSAA_CONNECTORS MIS_DATE) and IOFSAA_WRAP_GL_BALI, PERIOD_NAME = #OFSAA_CONNECTORS. PERIOD_NAME 2
		Previous	Save	С	lose Next		

Note: When the Insert data option is selected, the EDD becomes source and ADI becomes target. Similarly, if Extract Data option is selected, then ADI becomes source and EDD becomes target.

- 5. Enter the Connector Name and description. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- 6. Under the 'EDD Selector' section, the available EDD's are listed. Select the required EDD in order to map it. The selected EDD's are displayed in the 'Source' section.
- In case of multiple EDDs selected. Add Join section appears below with selected EDDs appearing on the left and right side. Select the fields from the Left and right side, and join the fields. If LOOKUP is required, then check the lookup checkbox has during the mapping.



Selected EDD									🖬 🝸 🗌
EDD	External Data S	Store Name	External Data Store	Description				External Data Store Type	Filter Expression
OFSAA_WRAP_GL_BAL	FAH_STAGE_S	SRC	Staging Source for	Oracle Fusion Accounting	g Hub			ORACLE DB	(IOFSAA_WRAP_GL_BAL].FIC_MIS_DATE IS NULL OR [OFSAA_WRAP_GL_BAL].FIC_MIS_DATE = #OFSAA_CONNECTORS.MIS_DATE) and [OFSAA_WRAP_GL_BAL].PERIOD_NAME = #OFSAA_CONNECTORS.PERIOD_NAME
FLX_ACCOUNTING_ENTRIES	OBP_STAGE_S	SRC	Staging Source for	Oracle Banking Platform				ORACLE DB	2
* Add Join									
Left Entity OFSA	A_WRAP_GL_BAL	~					Right Entity	FLX_ACCOUNTING_ENTRIES	×
Columns							Columns		
FIC_MIS_DATE							ORG_UNIT_CODE		
D_DWNLD_DATE							EVENT_ID		
PERIOD_NAME						Lookup	ENTRY_ID		
LEDGER_NAME							FIC_MIS_DATE		
BALANCE_TYPE							TXN_REF_NO		
V_SCENARIO_CODE							EVENT_SEQ_NO		
CHART_OF_ACCOUNTS_ID]=E	TXN_SUB_SEQ_NUM		
V_CCY_CODE					~		TXN_EVENT_CODE		
					i Mi				d (
* Joins									
Left Entity	Right Entity		Lookup	Join Expression					

8. To edit the filter expression, click Z icon. The *Specify Expression* window appears. Select/key in the required expression and click **OK**.

	Functions	Operators	
4 m	Database Functions Data and Time TO_CHAR (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_ATAN (STRING,FORMAT) ASS (NUMBER) ACOS (FLOAT) ATAN (FLOAT) ATAN (FLOAT) CEIL (INT) COS (FLOAT) EXP (FLOAT) EXP (FLOAT)	Operators Arithmetic Concatenation Comparison	
			5
		Database Functions Database Functions Date and Time TO_CHAR (STRING,FORMAT) TO_DATE (STRING,FORMAT) Orall (STRING,FORMAT) ABS (NUMBER) ABS (NUMBER) ACOS (FLOAT) ACOS (FLOAT) ACOS (FLOAT) ATAN (FLOAT) COS (FLOAT) COS (FLOAT) COS (FLOAT) EXP (FLOAT) EXP (FLOAT) EXP (FLOAT)	Database Functions Date and Time Operators Anthmetic Concatenation Abs (NUMBER) ACOS (FLOAT) ASIN (FLOAT) ATAN2 (FLOAT) CELL (INT) COS (FLOAT) EXP (FLOAT) EXP (FLOAT)

NOTE:

- You do not need to add 'WHERE' clause for the filter.
- For File data loading, use filter expression of Number type along with single quotes. Example: N_DRAWN_AMOUNT ='40000'.
- For Date field refer To_CHAR function for comparison.

SDI SDI	Source Name	Source Description	Source Type	Filter Expression
USG_FILE_SDI	USG_FILE_SRC	The landing zone where all the required files will be arrived for loading data into OFSAA	FILE	USG_FILE_SDI_10118.Product_code = 'TDEP'

- 9. Click Next. The 'Target' block appears.
- 10. Select Application Data Interface from available list shows left panel. Move that to right side on selected panel. Below grid shows the selected ADIs along with filter expression. The filter on target can be applied by clicking the filter expression. The



Fields and details are explained as tabulated in "Fields and their descriptions" section.

- Note: In case multiple sub types/ADI are selected, the filter expression is necessary to direct required data into right entity/table. If no filter expression chosen then all the records are loaded into all the ADI/subtypes entities/tables.
 - This is required to identify which record goes into which target. It will be an expression such as <EDDNAME>.<Field Name> = 'TD' under Term deposit and <EDDNAME>.<Field Name> = 'CARDS' under Cards.

& Connector Flow Diagram					
		Definition Source Target		Mapping Properties Sun	mary
* Connector Details					
Connector Name *	Con_Fah_Gl_Balances				
Connector Description	Connector to load General Ledger	Data			
ADI Selector					
Available				Selected	
- ADIs				ADIs	
+-Account Address		^		🛨 🖂 General Ledger Data	
Account Adjustments					
Account Alternate Currency Values			Ð		
Account Anticipatory Profile			-		
Account Beneficiary			Ē		
Account Cash Flows					
Account Email Address		~			
Account Feature Man					
		en e			
* Selected ADI					
ADI	Subtype	Description			Filter Expression
General Ledger Data	General Ledger Data	General Ledger Data			2
		Previous	ive	Close Next	
Audit Trail User Comments					
* System ID:202191					
Created By	DHUSER		Cn	ation Date	07/13/2015 19:03:53
Last Modified By	DHUSER		La	at Modification Date	07/13/2015 19:03:53

11. Click the **Mapping** block in the flow chart, in order to map the EDD's. For details on Auto-mapping refer to section <u>Auto-mapping</u>.

Conceptor Name * Conceptor to load General Lodger Data Conceptor to load General Lodger Data ************************************	* Connector Flow Diagram							
Conceptor Name * Conceptor to load General Lodger Data Conceptor To load General Lodger Data Image Part * ************************************		Definition Source 25 Target		Aapping Prop	erties Summ	iry		
	* Connector Details							
	Connector Name * Con Fah	GI Balances						
barce:								
barce:	* Mapping							3
Telds		\checkmark		Target:	General Ledger Data	~		
PL_VIE_DATE Amount VTD is Local Carrency D_WINLD_DATE Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount VTD is Local Carrency Amount NTD is Local Carrency Amount NTD is Local Carrency Amount NTD is Local Carrency Amount NTD is Local Carrency Amount NTD is Local Carrency Amount NTD is Local Carrency Manuel Is Local Carrency Basch Code (m) V_CCY_CODE Common Chart of Acceunts (m) V_CCY_CODE Common Chart of Acceunts (m) V_GUTYRE Common Chart of Acceunts (m) V_GUTYRE Common Chart of Acceunts (m) V_MADUMIT_LCY' V V Multimet Acceunts (m) V Column Mapping Saurce Field Expression Gosman Entry Saurce Field Amount In Local Carrency Gosman Entry Saurce Field Amount In Local Carrency Gosman Entry Sauree Field					-		Mandaton/2	Only valid for applicati
0, OWNED_DATE FRIND_DATE FRIND_D					- C	C on approximately of the second seco	mundatory i	 Only Yalla for application
RENDU JAME CODE Add UTTO DA Accounting Currency Advanced YDD A Accounting Advanced YDD Accounting Advanced YDD A Accounting Advanced YDD Accounting YDD Advanced YDD Advanced YDD A Accounting YDD Advanced YDD		^						
LEDGE LUMAE LEDGE LUMAE LEDGE LUMAE LEDGE LUMAE SALAGE TYPE SALAGE								
BALANEL TYPE Amount in Accounting Currency V SSERABD_CODE Amount in Accounting Currency V SSERABD_CODE Barters in Accounting Currency V SSERABD_CODE Barters in Accounting Currency V SSERABD_CODE Barters in Accounting Currency V SSERABD_CODE Common Chent of Accounts (m) V COUNDUCAL CODE Common Chent of Accounts (m) V SSERABD_CODE Common Chent of Accounts (m) Content Verse Common Chent of Accounts (m) Content Verse Content Verse NANOUTLY Source Field Expression Source Field Expression Expression Source Field Expression Expression OFSAA, VMARP_GL_BAL N_AMOUNT_ACY Source Field Currency OFSAA, VMARP_GL_BAL N_AMOUNT_MACY Source Field Currency OFSAA, VMARP_GL_BAL N_AMOUNT_MACY Source Field Currency OFSAA, VMARP_GL_BAL N_AMOUNT_MACY Source Field Currency OFSAA, VMARP_GL_BAL N_AMO								
y SEGNA MAP GL BAL N_AMOUNT_ACY Source Fait Source Fa								
orketT.orf.Accounts_D V_CMULOOK_SO V_TRAINCAL_ELEMENT_COOE V_CMULOOK_COOE V_VCMULOOK_VCMULOOK_			E					
V_CC/CODE V_FINANCAL_ELEMENT_CODE V_FINANCAL_ELEMENT_CODE V_GUUTYR V_GUUTYR V_MOUNT_CY					,			
y_PARAAL_LELMENT_COCK y_COLMOUT_COA_COCK y_COLMOUT_COA_COCK y_COLMOUT_COA_COCK y_COLMOUT_ACY y_ANOUTT_ACY y								
V_COUND LCOA_COOE V_GL_TYRE L_MOUNT_LCY L]=L		nts (m)			
Y_B_TYPE Guranoy Code (m) MANDWIT_LCY Customer Class Code LANDOWER_LCY Data Origin LANDOWER_LCY Extraction Data Lossel Extract Add.(m) Extraction Data Column Mapping Target Exity Target Exity Based Exity Source Faiti Expression Extraction Data OFSAA_WARAP_GL_BAL N_AMOUNT_LCY Expression Extraction Data OFSAA_WARAP_GL_BAL N_AMOUNT_LCY Extraction Data Amount in Local Currency OFSAA_WARAP_GL_BAL N_AMOUNT_LCY Extraction Data Amount in Local Currency OFSAA_WARAP_GL_BAL N_AMOUNT_MT_LCY Extraction Data Amount MTD In Accounting Currency OFSAA_WARAP_GL_BAL N_AMOUNT_MT_LCY Extraction Data Amount MTD In Accounting Currency OFSAA_WARAP_GL_BAL N_AMOUNT_MT_LCY Extraction Data Amount MTD In Accounting Currency OFSAA_WARAP_GL_BAL N_AMOUNT_MT_LCY	V_COMMON_COA_CODE							
N_MOUNT_ACY N_ANOUNT_ACY N_ANOUNT_ACY Column Apping Column Ap	V_GL_TYPE							
Bit Montry LPCY Endemodal Universe and a constraint of the constraint o	N_AMOUNT_LCY			Customer Class Code				
Column Mapping Institution (CSC) Its for 10 of 20 (CC) Source Field Expression Target Field OFSAL, WRAP_GL, BAL N_AMOUNT_ACY General Ledger Data Amount in Local Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount in Local Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount in Local Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount MTD in Accounting Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount MTD in Accounting Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount MTD in Accounting Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount MTD in Accounting Currency OFSAL_WRAP_GL, BAL N_AMOUNT_MTD_ACY General Ledger Data Amount MTD in Accounting Currency OFSAL_WRAP_GL, BAL V_EMANON_COAC_CODE General Ledger Data Branch Code OFSAL_WRAP_GL, BAL V_COMMON_COAC_CODE General Ledger Data Branch Code	N_AMOUNT_ACY			Data Origin				
Column Mapping Instruct Mapping Column Mapping Source Field Source Field Expression OFSAL, WARAP, GL, BAL N_AMOUNT_ACY OFSAL, WARAP, GL, BAL N_AMOUNT_ACY OFSAL, WARAP, GL, BAL N_AMOUNT_ACY OFSAL, WARAP, GL, BAL N_AMOUNT_MCY OFSAL, WARAP, GL, BAL N_AMOUNT_MCY OFSAL, WARAP, GL, BAL N_AMOUNT_MCY OFSAL, WARAP, GL, BAL N_AMOUNT_MTD_LCY OFSAL, WARAP, GL, BAL V_BANCH CODE OFSAL, WARAP, GL, BAL V_COMMANC GL, CODE	N_AMOUNT_MTD_LCY	~		Extraction Date				
Column Mapping Instantial Column Mapping © Source Ently Source Field © SSAL, WRAP, GL, BAL N_AMOUNT_ACY © SSAL, WRAP, GL, BAL N_AMOUNT_ACY © SSAL, WRAP, GL, BAL N_AMOUNT_MTD_ACY © SSAL, WRAP, GL, BAL V_STAL WRAP, GL, BAL © SSAL, WRAP, GL, BAL V_STAL WRAP, GL, BAL	N ABOURT HTD ACY			Eleannial Element Code /	m)			
Source Field Source Field Expression Target Field 0*SAA_WRAP_GL_BAL N_AMOUNT_ACY Ceneral Ledger Data Amount in Accounting Currency 0*SAA_WRAP_GL_BAL N_AMOUNT_LCY Ceneral Ledger Data Amount in Local Currency 0*SAA_WRAP_GL_BAL N_AMOUNT_MTD_ACY Ceneral Ledger Data Amount MTD in Local Currency 0*SAA_WRAP_GL_BAL N_AMOUNT_MTD_ACY Ceneral Ledger Data Amount MTD in Local Currency 0*SAA_WRAP_GL_BAL N_AMOUNT_MTD_LCY Ceneral Ledger Data Amount MTD in Local Currency 0*SAA_WRAP_GL_BAL N_AMOUNT_MTD_LCY Ceneral Ledger Data Amount MTD in Local Currency 0*SAA_WRAP_GL_BAL V_SBANOUNT_MTD_LCY Ceneral Ledger Data Amount MTD in Local Currency 0*SAA_WRAP_GL_BAL V_SBANOUNT_MTD_LCY Ceneral Ledger Data Amount MTD in Local Currency 0*SAA_WRAP_GL_BAL V_SBANOUNT_MTD_LCY Ceneral Ledger Data Ceneral Ledger Data Ceneral Ledger Data 0*SAA_WRAP_GL_BAL V_COMIND_CODE Ceneral Ledger Data Ceneral Ledger Data Ceneral Ledger Data Ceneral Ledger Data		040						
OFSAA_WRAP_GL_BAL N_AMUUNT_ACY General Ledger Data Amount in Accounting Currency 0FSAA_WRAP_GL_BAL N_AMUUNT_INT_ACY General Ledger Data Amount in Local Currency 0FSAA_WRAP_GL_BAL N_AMUUNT_INT_ACY General Ledger Data Amount Thi Daccounting Currency 0FSAA_WRAP_GL_BAL N_AMUUNT_INT_ACY General Ledger Data Amount Thi Da Accounting Currency 0FSAA_WRAP_GL_BAL N_AMUUNT_INT_ACY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP_GL_BAL N_AMUUNT_INT_ACY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP_GL_BAL V_ERANCH_CODE General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP_GL_BAL V_ERANCH_CODE General Ledger Data Branch Code 0FSAA_WRAP_GL_GB_L V_COMINCH_COA_CODE General Ledger Data Common Chart of Accounts	* Column Mapping					Import Mapping	™™ ≜	1 to 10 of 20 📢 🚺 🚺
OFSAA_WRAP.GL_BAL N_AMOUNT_LCY General Ledger Data Amount in Local Currency 0FSAA_WRAP.GL_BAL N_AMOUNT_JINT_ACY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP.GL_BAL N_AMOUNT_JINT_ACY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP.GL_BAL N_AMOUNT_JINT_ACY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP.GL_BAL V_EDMINOT_CODE General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP.GL_BAL V_EDMINOT_CODE General Ledger Data Common Chart of Accounting	Source Entity Source Field	Expression				Target Entity	Target Fi	eld
OFSAA_WRAP_QL_BAL N_AMUONT_MTD_ACY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP_QL_BAL N_AMUONT_MTD_LCY General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP_QL_BAL V_BRAN(NC, GENERAL Amount MTD in Accounting Currency Amount MTD in Accounting Currency 0FSAA_WRAP_QL_BAL V_BRAN(NC, COE General Ledger Data Amount MTD in Accounting Currency 0FSAA_WRAP_QL_BAL V_COMINON_COA_CODE General Ledger Data Common Chart of Accounting	OFSAA_WRAP_GL_BAL N_AMOUNT_ACY					General Ledger Data	Amount i	n Accounting Currency
OPSA_VMAP2.GL_BAL N_AMOUNT_VTD_LCY General Ledger Data Amount MTD Local Currency 0FSA_VMAP2.GL_BAL V_BRAICH_CODE General Ledger Data Branch Code 0FSA_VMAP2.GL_BAL V_COMMON(COA_CODE General Ledger Data Common Chart F Accounts	OFSAA_WRAP_GL_BAL N_AMOUNT_LCY					General Ledger Data	Amount i	n Local Currency
OFSAA_WRAP_GL_BAL V_BRANCH_CODE General Ledger Data Branch Code OFSAA_WRAP_GL_BAL V_COMMON_COA_CODE General Ledger Data Common Chart of Accounts	OFSAA_WRAP_GL_BAL N_AMOUNT_MTD_A	ACY				General Ledger Data	Amount I	ITD in Accounting Currency
OFSAA_VIRAP_GL_BAL V_COMMON_COA_CODE General Ledger Data Common Chart of Accounts	OFSAA_WRAP_GL_BAL N_AMOUNT_MTD_L	LCY				General Ledger Data	Amount I	ITD in Local Currency
	OFSAA_WRAP_GL_BAL V_BRANCH_CODE	E				General Ledger Data	Branch (ode
] OFSAA_WRAP_GL_BAL F_CONSOLDATION_FLAG General Ledger Data Consoldation Flag	OFSAA_WRAP_GL_BAL V_COMMON_COA_	CODE				General Ledger Data	Common	Chart of Accounts
	OFSAA_WRAP_GL_BAL F_CONSOLIDATION	IN_FLAG				General Ledger Data	Consolid	ation Flag

12. Select the EDD from the drop down list. For details on drop-down options for EDD refer to section <u>Options in Mapping EDD</u>.



13. Select the 'Mandatory' option to populate the mandatory Attributes to be mapped.

Note: On selecting 'Derived Column' option as EDD from the drop down list, you can add an expression.

All the mapped attributes are listed under the 'Column Mapping' sector. For details on the options in the Mapping grid such as Auto-mapping, Export to Excel and so on refer to section <u>Fields in Mapping</u>.

nnector Description	rated file to be	e loaded into TD contracts of OFSAA				
Mapping			3			
I: Parameters -			Only valid for opplications?			
elds		ATM Facility Indicator				
RC SYSTEM CODE	_	Above Compensation Limit Indicator	11			
DADRUNID		Account / Contract Code (m)				
STVAR		Account Closed Date				
EMO_PARAM_CONS_1		Account Closed Indicator				
ISDATE		Account Customer Net Revenue				
		Account Display Name				
	[=]	Account Group Identifier				
		Account Internet Facility Flag				
]=E	Account Manager Code				
		Account Open Date				
		Account Ownership Type				
		Account Peer Group Identifier				
		Account Purpose				
		Account Retention Segment ID				
		Account Risk Score				
]	e Mu	boud	ių.			
Column Mapping		Import Mapping 🔯 🐺 1 to 4 of 4 🚺				
Source Field Logical Attribute Name Expression	n					
Account_number Account / Contract Code *						
Misdate Extraction Date *						
GAAP code Gaap Code " 'AUGAAP'						
LOADRUNID Load Run Identifier * #DIH.LOA	DRUNID					

Note: If the application is chosen as BASEL, while mapping, you can select the type of approach (such as, IRB or Advanced Approach) and the Jurisdiction (BIS, BRAZIL, China, India and so on) for filtering.

* Mapping		8								
SDI: EBCDIC_FILE -			Approach		~	Jurisdiction	×			
Fields				Standardised Securitized - Advanced	^	Unmapped?	Mandatory? Volid for applications?			
PREX_HDR_RECORD_TYPE			Agreement Flag (m)	Approach			*			
PREX_HDR_CREATION_DATE			Basis Risk Weight (m)	Securitized - IRB	=					
PREX_HDR_CREATION_TIME			CDS Reference Entity Part	Securitized - Supervisory			-			
FILLER			CVA Hedge Flag (m)	Formula Approach	*		-			
			Central Counterparty Code (n	n)						
			Cleared Transaction Bank Rol	le Code (m)						
		[=]	Cleared Transaction Flag (m)							
			Country Code (m)							
]=E	Credit Event Indicator for rest	tructure (m)						
			Currency Code (m)							
			Dilution Risk Mitigant Indicato	x (m)						
			Eligibility Flag (m)							
			Eligible Mutual Fund Indicator	(m)						
			Eligible Non Main Index Indica	ator (m)						
			Equity Main index Indicator (n	n)						
	M.		•			"	4			
							00			
			ł							

14. Click the **Properties** block in the flow chart. The Properties related fields come up. The Connector details come up automatically.



Connectors											
Connectors > Connectors (Definition I	Mode) >										
* Connector Flow Diagram											
Defation Contraction Res Target - Res Target - Reported Summary											
* Connector Details											
Connector Name *	me* [Con_Fab_OL_Balances										
Connector Description Connector to lead General Ledger Data											
Properties											
Loading Mechanism	O External Ta	able	Direct	True	Parallel	True					
Degree of Parallel	5		No. Of Errors	0	Maxmium Discard	1					
ODI Folder	DRM_OFSAA		XML Date Format	YYYY-MM-DD	Avoid Partition Exchange	No V					
	Yes	~	Source and Target in Same Environment ?	Yes 🗸	Source Dump Location	/src/tmp					
Do you want to use Datadump ?				Effective Dated Key for Result Area?		No					

Previous Save Close Next

- 15. Select the Loading Mechanism. Select the Direct and Parallel option from the drop down list. Key in the value for Degree of Parallel, No: of Errors, Maximum Discard, ODI Folder, XML Date Format, Do you want to use Data Pump?, Source and Target in Same Environment?, Avoid Partition Exchange, Source Dump Location, Target Dump Location, and Number of Splits for Dump File, Effective Dated Key for Result Area?. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- 16. Click the **Summary** block in the flow chart to view the summary of all sections.

	Connectors										
Connectors > Connectors (Definition Mo	de) >										
* Connector Flow Diagram											
		Definition General Source	e EX Target Mt	apping Properties	Summary						
* Connector Details											
Connector Name *	Con_Fah_GI_Balances										
Connector Description	Connector to load General	Ledger Data									
× Properties											
* Selected EDD											
EDD	External Data Store Name	External Data Store Description	a	External	Data Store Type Filter Expression						
OFSAA_WRAP_GL_BAL	FAH_STAGE_SRC	Staging Source for Oracle Fus	ion Accounting Hub	ORACLE		IS_DATE IS NULL OR S_DATE = #OFSAA_CONNECTORS.MIS_DATE) and NAME = #OFSAA_CONNECTORS.PERIOD_NAME					
FLX_ACCOUNTING_ENTRIES	FLX_ACCOUNTING_ENTRIES OBP_STAGE_SRC Staging Source for Oracle Banking Platform			ORACLE	DB						
* Selected ADI											
ADI	Subtype	Description			Filter Expression						
General Ledger Data	General Ledger Data	General Ledger Data									
* Joins											
Left Entity	Right Entity	Lookup Join Expr	ession								
Column Mapping						1 to 10 of 20 🔇 🚺 💭					
Source Entity	Source Field	Expression			Target Entity	Target Field					
OFSAA_WRAP_GL_BAL	N_AMOUNT_ACY				General Ledger Data	Amount in Accounting Currency					
OFSAA_WRAP_GL_BAL	N_AMOUNT_LCY				General Ledger Data	Amount in Local Currency					
OFSAA_WRAP_GL_BAL	N_AMOUNT_MTD_ACY				General Ledger Data	Amount MTD in Accounting Currency					
OFSAA_WRAP_GL_BAL	N_AMOUNT_MTD_LCY				General Ledger Data	Amount MTD in Local Currency					
OFSAA_WRAP_GL_BAL	V_BRANCH_CODE				General Ledger Data	Branch Code					
OFSAA_WRAP_GL_BAL	V_COMMON_COA_CODE				General Ledger Data	Common Chart of Accounts					
OFSAA_WRAP_GL_BAL	F_CONSOLIDATION_FLAG				General Ledger Data	Consolidation Flag					
OFSAA_WRAP_GL_BAL	V_CCY_CODE				General Ledger Data	Currency Code					
OFSAA WRAP GL BAL	V FINANCIAL ELEMENT CODE				General Ledger Data	Financial Element Code					

17. Click Publish. This converts DIH metadata into ODI objects.

The Audit Trail section at the bottom of the window displays the information of the source created. The User comments section facilitates you to add or update additional information as comments.



		Connec	tor	rs					9
* Search									
ADI	Name								
* Connectors				B 🖬 🛙	3 10	Q0 =	41 - 4	15 / 45 🗂 🕄 🕄 💭 Jum	ip to page
🛅 Name 🔺	Description		SI	DI	Sou	urce Name	Status	Created Date	Last Modified Da
Test Execution Connector TD	Test Executi	on Connector TD	TE	EST_EXEC_TD	OF	SAA_FILES	Published	20-OCT-2014 08:10 PM	
Test expression			E	XCHG_RATE_HIS	ST OF	SAA_FILES	Saved	22-OCT-2014 05:10 PM	
Test Long Length							Published	29-SEP-2014 04:09 PM	
TESTCON2			TE	EST2	OF	SAA_FILES	Published	21-OCT-2014 05:10 PM	
USG File Connector 1	Connector fo	r mapping Term deposits data in a comm[]	U	JSG_FILE_SDI	US	G_FILE_SRC	Published	28-OCT-2014 12:10 PM	
and the second se				B					

8.1.4 Creating a Connector for Extracting Data from Results

To create a Connector for extracting data from results follow the below steps:

- 1. Navigate to **Data Mapping > Connector.**
- 2. Click the Add 🖻 button from the tool bar. The *Connectors Definition* window appears.
- 3. The Definition tab provides the option to load and extract data. Select Extract data and Results. Click **Next**.

	Connectors
Connectors > Connectors (Definition Mode) >	
* Connector Flow Diagram	
	Definition Source XX Target Properties Summary
	What are the objectives of this connector?
	Which operation should this connector perform on OFSAA? *
	O Insert data Extract data
	On which OFSAA module should this operation be performed? *
	O Staping Results
	For which applications (if any) should this connector be mapped?
	
	For which External Data Stores (if any) should this connector be mapped?
	Close Next

4. Click **Next.** The 'Source' block appears.



Connectors									
Connectors > Connectors (Definition Mode) >									
Connector Flow Diagram									
Defration - Defration - ZX Target - IF Mapping - I Roperties - I Summary									
* Connector Details									
Connector Name *	USG_FILE_CONNECTOR								
Connector Description	Connector for mapping term deposit	is data in a comma separated file to be loaded into TD cr	ontracts of	OFSAA					
ADI Selector Available				Selected					
ADIS		^		ADIs					
Account Adjustments			Đ						
Account Alternate Currency Values			L.						
Account Anticipatory Profile Account Beneficiary			E						
Account Benenciary			E.						
Account Cash Plows Account Email Address									
Account Entail Address		~							
		00							
Selected ADI									
ADI Subtyp	e	Description			Filter Expression				
		Previous Si	ave	Close Next					
Audit Trail User Comments									
* System ID:									
Created By			Cri	ation Date					
Last Modified By			La	t Modification Date					

- 5. If Extract data option is selected, the ADI becomes source and EDD becomes target. Only staging relevant ADIs appear there.
- 6. Enter the Connector Name and description. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- 7. Under the 'ADI Selector' section, the available ADI's are listed. Select the required ADI in order to map it. The selected ADI's are displayed in the 'Source' section.

			Со	nnecto	ors					
Connectors > Connectors (Definition Mode) >										
8 Connector Flow Diagram										
	Ø	Definition Source Target	-	-	Mapping Properties	Summary				
e. Connector Details										
Connector Name *	USG_FILE_CONNECTOR									
Connector Description	Connector for mapping term depo	osits data in a comma separated file to be loaded into TE) cont	tracts of	OFSAA					
ADI Selector										
Available					Selected					
ADIs			~		ADIs					
E Account Address					Account Adjustments					
Account Alternate Currency Values					Account Cash Flows					
Account Anticipatory Profile				E+						
Account Beneficiary				_						
Account Email Address				Ē						
Account Feature Map										
+ Account Group Details			~							
Account Group Master										
		ů.	0							
8 Selected ADI										
ADI	Subtype	Description				Filter Expression				
Account Adjustments	Account Adjustments	Account Adjustments				2				
Account Cash Flows	Account Cash Flows	Account Cash Flows				2				
8 Add Join										
Left Entity Account Adjust	ments 🗸				Right Entity Account Cash Flo	ws 🗸				
Columns					Columns					
Account Number					Account / Contract Code					
		,	2		0.100.1		^			

 In case of multiple ADIs selected, Add Join section appears below with selected EDDs appearing on the left and right side. Select the fields from the Left and right side, and join the fields. If LOOKUP is required, then check the lookup checkbox has during the mapping.

Note: For few ADIs/Subtypes, there are known relationship so joins in case of multiple ADIs occurs automatically.



* Selected ADI							· · · · · · · · · · · · · · · · · · ·
ADI	Subtype	Description				Filter Expression	
Account Adjustments	Account Adjustments	Account Adjustments				2	
Account Cash Flows	Account Cash Flows	Account Cash Flows				2	
* Add Join							
Left Entity Account A	Adjustments 🗸				Right Entity	Account Cash Flows	
Columns					Columns		
Adjustment Approver Remarks					Account / Contract Code		
Adjustment Approver User Identifier			^		Cash Flow Amount		
Adjustment Entry Date				Lookup	Cash Flow Date		
Adjustment Entry Status				LOOKup	Cash Flow Sequence		
Adjustment Entry User Identifier				E=1	Cash Flow Type		
Adjustment Entry User Remarks					Common Coa Code		
Adjustment Status Date]=E	Currency Code		
Adjustment Version Identifier			~	1-L	Currency type code		
Adjustment process status					contency type code		
			di d				d
* Joins							
Left Entity	Right Entity	Lookup Join Expression					

9. To edit the filter expression, click Z icon. The *Specify Expression* window appears. Select/key in the required expression and click **OK**.

	Express	ion		1.1
IH > Expression >				
Expressions				I.
Entities		Functions	Operators	
DATA ENTITIES USG_FILE_SDI_10118 Account_number - Misdate - Product_code - Tenor - Total_fee_charges - Total_revenue - Acct_manager_code - Interest_method - GL_code		Database Functions Data and Time TO_CHAR (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_DATE (STRING,FORMAT) TO_ATAN (STRING,FORMAT) ASS (NUMBER) ACOS (FLOAT) ATAN (FLOAT) ATAN (FLOAT) CEIL (INT) COS (FLOAT) EXP (FLOAT) EXP (FLOAT)	Operators Arithmetic Concatenation Comparison	
Expression				Ð
USG_FILE_SDI_10118 Product_code = 'TDEP'				
	Qh	Cancel		

NOTE:

- You do not need to add 'WHERE' clause for the filter.
- For File data loading, use filter expression of Number type along with single quotes. Example: N_DRAWN_AMOUNT ='40000'.
- For Date field refer To_CHAR function for comparison.
- 10. Click Next. The 'Target' block appears.
- 11. Select External Data Descriptor from available list shows left panel. Move that to right side on selected panel. Below grid shows the selected EDDs along with filter expression. The filter on target can be applied by clicking the filter expression. The Fields and details are explained as tabulated in "Fields and their descriptions" section.
- **Note**: For extract type connector, only one EDD should be selected. Multiple EDD is not supported.



			c	onnect	ors
Connectors > Connectors (Definition Mode	ē) >				
* Connector Flow Diagram					
	Definit	ion Source	2% Target		Mapping Properties Summary
* Connector Details					
Connector Name *					
Connector Description					
ADI Selector					
Available					Selected
E Common Coa Hier Intf Master					ADIs A
+ Common Coa Master				1	Customer Account
🖶 🔲 Common Coa Ti Intf Master					
Customer Account				Ð	Bills Contract
Borrowings					E
CASA Contracts				E.	
Cards					
Commitment Contracts					
			040		۲
Selected ADI					
ADI	Subtype	Description Customer Account			Filter Expression
Customer Account	Annuity Contracts Bills Contract	Customer Account			2
	bills Collead	Gustomet Account			۲
			Previous	lave	Close Next
Audit Trail User Comments					

12. Click the **Mapping** block in the flow chart, in order to map the EDD's. For details on Auto-mapping refer to section <u>Auto-mapping</u>.

				C	Connecto	ors					
Connectors > Connectors	(Definition Mode) >										
* Connector Flow Dia	aram										
	Definition Cource ZX Target Carget Properties Summary										
* Connector Details											
Connector Name * USG_FLE_CONNECTOR											
Connector Description Connector for mapping term deposits data in a comma separated file to be loaded into TD contracts of OFSAA											
* Mapping											3
Source:	Account Adjustments	~				Target:	FLX_ACCT_MITIGANT	MAP	~		
Attributes		Unmapped?	Mandatory?	Only valid for applications?		Fields					Unmapped?
Account Number (m)						MITIGANT_WEIGHT					
Adjusted Column Identifier	(m)			^		MITIGANT_CODE					
Adjustment Approver Rem	narks					ACCOUNT_NUMBER					
Adjustment Approver Use	r Identifier					FIC_MIS_DATE					
Adjustment Entry Date											
Adjustment Entry Status					[=]						
Adjustment Entry User Ide	ntifier				r-1						
Adjustment Entry User Re	marks]=E						
Adjustment Status Date					1-L						
Adjustment Version Identit	fier (m)										
Adjustment process statu	8										
Date Value											
GAAP Code (m)											
Information Date (m)				~							
Load Due Identifier (m)				m							.Pû
				040							040
Column Mapping									Import Mapping	₹	1 to 0 of 0 📢 🚺 D D
Source Entity	S	ource Field	Expression					Target Entity		Target Field	
				Previous	ave	lose Next					

13. Select the ADI from the drop down list. For details on options for ADI refer to section Options in Mapping ADI.

Note: For extract connector, mandatory attributes are not applicable. There is no validation of mandatory attributes during publish. Mandatory indicator (*) against an attribute for ADI is for reference only.



Mapping												3
Source:	Account Address	~					Target:	FLX_ACCT_RATE_TIERS	~			
Attributes		🗌 Un	mapped?	Mandatory?	Only valid for applications?		Fields					Unmapped
Account / Contract Code							INTEREST_RATE_CD					
Account Address Purpos	е Туре				^		INTEREST_TYPE					
Address Line 1							SORT_ORDER					
Address Line 2							INT_FREQ_UNIT					
Address Line 3						[=]	INT_FREQ					
Address Line 4							EOP_BAL					
Address Line 5							EOP_INT_AMT					
Address Line 6]=E	EOP_PRIN_AMT									
City	CRy		J-L	INT_BM_RATE								
Country							INT_RATE_SPREAD					
Extraction Date (m)							CURR_INTEREST_RATE					
Mail Handling Instruction							ORIG_INT_RATE					
Postal Code							GL_CODE					
Region					~		DATA_ORIGIN					
Convones Number (m)							STACE NAME					
					040							0
Column Mapping									Import	Mapping 🛛 🚳 😽	₹ 1	to 1 of 1 🔇 🕻 🖸 🗋
Source Entity		Source Field		Expression				T	arget Entity		Target Field	
Account Address		Account / Contract Code *						FI	LX_ACCT_RATE_TIERS		INTEREST_RATE_	CD

14. Select the 'Mandatory' option to populate the mandatory Attributes to be mapped. All the mapped attributes are listed under the 'Column Mapping' sector. For details on the options in the Mapping grid such as Auto-mapping, Export to Excel and so on refer to section <u>Field in Mapping</u>.

Note: If the application is chosen as BASEL, while mapping, you can select the type of approach (such as, IRB or Advanced Approach) and the Jurisdiction (BIS, BRAZIL, China, India and so on) for filtering.

* Mapping						3
SDI: EBCDIC_FILE -		Approach	~	Jurisdiction		~
Fields		Attributes Standardised	^	Unmapped?	Mandatory?	Only valid for applications?
PREX_HDR_RECORD_TYPE		Agreement Flag (m) Securitized - Adv. Approach	anceo			*
PREX_HDR_CREATION_DATE		Basis Risk Weight (m) Securitzed - IRB	=			
PREX_HDR_CREATION_TIME		CDS Reference Entity Part CVA Hedge Flag (m) Securitized - Super Formula Approact				-
FILLER		CVA Hedge Flag (m) Formula Approact	h			-
		Central Counterparty Code (m)				
		Cleared Transaction Bank Role Code (m)				
	E=1	Cleared Transaction Flag (m)				
		Country Code (m)				
]=E	Credit Event Indicator for restructure (m)				
		Currency Code (m)				
		Dilution Risk Mitigant Indicator (m)				
		Eligibility Flag (m)				
		Eligible Mutual Fund Indicator (m)				
		Eligible Non Main Index Indicator (m)				
		Equity Main index Indicator (m)				-
M		•		m		F
						di di seconda di se Seconda di seconda di se

15. Click the **Properties** block in the flow chart. The Properties related fields, and the Connector details appear automatically.

* Connector Details								
Connector Name *								
Connector Description (
* Properties								
Loading Mechanism	O External Table	Direct	True V	Parallel	True			
Degree of Parallel	5	No. Of Errors	0	Maxmium Discard	1			
ODI Folder	DRM_OFSAA	XML Date Format	YYYY-MM-DD	Avoid Partition Exchange	No V			
Do you want to use Datadump ?	Yes 🗸	Source and Target in Same Environment ?	Yes 🗸	Source Dump Location	/src/tmp			
Target Dump Location	/target/tmp	Number of Splits for Dump file	3	Effective Dated Key for Result Area?	No			
		Pre	vious Save Close Next					

- 16. No action is required in properties section. Directly proceed to summary tab.
- 17. Click the **Summary** block in the flow chart to view the summary of all sections.



				Connectors			
Connectors > Connectors (Definition	Mode) >						
Connector Flow Diagram							
			Defir	nition Source 25 Target From Mapping	perties Su	mmary	
Connector Details							
Connector Name *		Connector1					
Connector Description		Connector for mapping t	erm deposits	data in a comma separated file to be loaded into TD contracts of OFSAA			
Properties							
Selected EDD							
EDD	External E	Data Store Name	Exter	nal Data Store Description	External Data Stor	re Type Filter Expression	
FLX_ACCT_RATE_TIERS	OBP_STA	AGE_SRC	Stagi	ing Source for Oracle Banking Platform	ORACLE DB		
Selected ADI							
ADI	Subtyp	e .		Description		Filter Expression	
Account Address	Accou	nt Address		Account Address			
Column Mapping							1 to 1 of 1 🔣 🖸 🗋
Source Entity	Source	e Field		Expression		Target Entity	Target Field
Account Address	Accou	nt / Contract Code *				FLX_ACCT_RATE_TIERS	INTEREST_RATE_CD

18. Click **Publish**. This converts DIH metadata into ODI objects.

The Audit Trail section at the bottom of the window displays the information of the source created. The User comments section facilitates you to add or update additional information as comments.

		Connec	tors					0
* Search								
ADI		÷	Ν	lame				
* Connectors					■ 0 0 ₹	41 - 4	5 / 45 🗂 🕄 🕄 🗂 Jum	ip to page
🔲 Name 🔺	Description		SDI		Source Name	Status	Created Date	Last Modified Da
Test Execution Connector TD	Test Executi	on Connector TD	TEST	T_EXEC_TD	OFSAA_FILES	Published	20-OCT-2014 08:10 PM	
Test expression			EXC	HG_RATE_HIST	OFSAA_FILES	Saved	22-OCT-2014 05:10 PM	
🛅 Test Long Length						Published	29-SEP-2014 04:09 PM	
TESTCON2			TEST	T2	OFSAA_FILES	Published	21-OCT-2014 05:10 PM	
USG File Connector 1	Connector fo	r mapping Term deposits data in a comm[]	USG	FILE_SDI	USG_FILE_SRC	Published	28-OCT-2014 12:10 PM	
and the second se			1	63				

8.1.4.1 Auto-mapping

The Mapping section appears, with an dialog box providing an option for Auto Mapping. Click **Yes** to proceed with Auto Mapping. Alternatively, click **No**, to perform Auto Mapping later or perform mapping manually.

The list of Fields and Attributes are listed.

Warning [12015] Webpage Dialog	
	Do you want to perform Auto Mapping? Yes No

8.1.4.2 Options in Mapping EDD

In the Mapping grid of the Mapping block, when you click on the EDD drop-down, there are three options:

- **Defined EDD**: In this option, the defined EDD is listed in the Fields column which can be mapped to the required ADI.
- Derived Column: On selecting Derived Column, under the Fields column, you have 'Add Expression' option. On selecting 'Add option', the Specify Expression window appears. Here, you can select the required Entities, Functions and Operators. That is, you can write your own expression. Enter the field name and click OK. Now the newly created field name will be listed along with the 'Add Option'. Select the created filed and map it with the respective attributes.
- **Parameter**: On selecting Parameter, you can substitute it with the EDD. The respective parameters are listed in the fields' column. Map the fields and attributes.

Mapping		
Source:	FLX_ACCOUNTING_ENTRIES Derived Column	
Fields	Parameters	Unmapped?

Example: USG_FILE_EDD. The Fields of the selected EDD is listed.

8.1.4.3 Options in Mapping ADI

In the Mapping grid of the Mapping block, when you click on the ADI drop-down, there are three options:

- Defined ADI: In this option, the attributes of the selected ADI which can be mapped to the required EDD.
- Derived Column: On selecting Derived Column, under the Fields column, you have 'Add Expression' option. On selecting 'Add option', the Specify Expression window appears. Here, you can select the required Entities, Functions and Operators. That is, you can write your own expression. Enter the field name and click OK. Now the newly created field name will be listed along with the 'Add Option'. Select the created filed and map it with the respective attributes.
- Parameter: On selecting Parameter, you can substitute it with the ADI. The respective parameters are defined can be mapped to a field on target.

Mapping				
Source:	Account Address			
Attributes	Derived Column Parameters	Unmapped?	Mandatory?	Only valid for applications?

Example: Customer Account. The Fields of the selected ADI is listed.

8.1.4.4 Fields in Mapping

The Mapping and Column Mapping grid in the Mapping block provides options, such as Auto-mapping, Export to Excel and so on, as explained below.



Mapping										3
Source:	Account Address	~				Target:	FLX_ACCOUNTING_ENTRIES	~		
Attributes		Unmapped?	Mandatory?	Only valid for applications?		Fields				Unmapped?
Account / Contract Code (r						TAN_SUD_SLG_NOW				
Account Address Purpose	Туре			^		TXN_EVENT_CODE				^
Address Line 1						TXN_CODE				
Address Line 2						TXN_DESC				
Address Line 3						TXN_BANK_CODE				
Address Line 4						TXN_BRANCH_CODE				
Address Line 5					[=]	BATCH_CODE				
Address Line 6						CURR_BATCH_NUM				
City]=E	USER_REFERENCE_CODE					
					CHANNEL_CODE					
Country						TXN_DATE				
Extraction Date (m)						VALUE_DATE				
Mail Handling Instruction						POSTING DATE				
Postal Code						PROCESS DATE				
Region				~		CUST_REF_CODE				~
Consonan Number (m)						0001_101_0000				
				00						0M
Column Mapping									Import Mapping 🛛 🐯 🐺 🛛 🗮 🕇 to	1 of 1 🕄 🕻 🖸 🗋
Source Entity	Source Field		Expression				Targe	et Entity	rarget Field	
Account Address	Account Addres	s Purpose Type								
				Previous	ave C	lose Next				

- You can view the unmapped fields and attributes by selecting the "Unmapped" checkbox. The mapped fields are displayed in red. You can also search for an attribute or field by keying the required word in the search option and clicking icon.
- You can view the mandatory attributes by selecting the "Mandatory" checkbox.
- Only valid for applications, and is not applicable for extract.
- For data loading into Result area, DIH internally converts code/string values into surrogate keys/numbers by looking up into corresponding dimension table. This happens during publish. The lookup happens either on latest record or on the effective dated. It is decided by the parameter "Effective Dated Key for Result Area?". Therefore, in the result area loading, a data type mismatch warning might appear. You can ignore the warning.
- There is automap button on the "Column Mapping" section next to "Import Mapping". On clicking it, it maps Fields of the selected EDD on the left to attributes on the target based on name. And it puts underscore "_" in the space between words and tries to match. It tries to match with physical column name of the attribute as well. The user should review the mapping and delete if not correct. The 'Delete mapping" button is also next to automap button.
- The Export to Excel icon, helps in moving the mappings to an excel sheet. The excel sheet has the following columns:
 - o EDD
 - Source Column
 - o Target Attribute
 - o Mandatory
 - Applicable for Applications

The export process dumps all the source columns and target attributes for the current selection along with whatever is already mapped. You can alter or do the mapping by changing the source/EDD and Target columns in the Excel.

Click "Import Mapping" button on the "column Mapping" section, and select excel mapping. The import process does the mapping if the mapping is valid or the same target attribute is not already mapped.

If EDD is not mentioned in the excel (manually created), then import mapping option enables you to map left and right attributes based on their name irrespective of EDD name. This enables the user to perform reference mapping. This indicates that is once mapping is established between the source fields and target attributes, on any connector with any EDD the same mapping can be used.

8.2 Viewing a Connector

You can view a Connector at any given point. To view an existing Connector:

- 1. Select the checkbox adjacent to the name.
- 2. Click the View 💻 button from the tool bar.
- 3. The *View* window displays the details of the selected Connector. In continuation with the example above, the 'USG File Connector 1'connector details appears on the view mode window.
- 4. Verify the details and click the **Publish** button. This creates ODI metadata from DIH metadata.

If you want to make any changes, click 'Unpublish'. The 'Unpublish' option clears ODI metadata that has been created in publish. Update the required changes and then click Publish, for the updated data to be loaded to ODI.

9 Refresh

Refreshing is the process of creating ADI and syncing the changes that happens in data model. Click the **Administration** option from the LHS menu and select **Refresh** option.

Data Integration Hub > Administration Administration Administration	
Settings Settings	► Refresh Refresh
Publish/Unpublish Connectors Publish/Unpublish connectors in ODI	
Data Integration Hub > Administration > Refresh	
Refresh	
Refresh ADI Refresh ADI	Refresh Target Datastores Refresh Target Datastores

The Refresh option has the following options:

- Refresh ADI
- <u>Refresh Target Datastores</u>

9.1 Refresh ADI

The Refresh ADI creates ADIs by reading the uploaded data model in the setup. It works for incremental changes also. If there is any change in data model from the previous one, then ADI refresh compares the existing ADI with updated model and accommodates the changes either by adding new ADI or adding new attribute and so on.

If any changes are made to the model, you need to click Refresh ADI for the changes to appear.

Post the completion of Refresh ADI, please have a look at the log file named DIH.log (found under the Weblayer logs folder). Please check for any 'ALERT' messages in the log that indicate the possibility of inconsistencies in data caused by delete/update operations that were not permitted to be executed for some reason. Please follow any steps that may been suggested in these 'ALERT' messages.

Possible 'ALERT' messages and actions that need to be taken in response to these messages have been listed in the table below:

Message	Action
ALERT: Cannot delete this Adi as it is being used by one or more connectors	Please unpublish and delete any connector/s which may be using this ADI.
ALERT: Cannot delete this AdiAttrMap as it is being used by one or more connectors	Please delete any mappings to the concerned attribute from connectors which may be using this ADI.
ALERT: Cannot delete this attribute as it is being used by one or more connectors	Please delete any mappings to the concerned attribute from connectors which have such mappings.
ALERT: Cannot delete this StVal as it is used by one or more connectors	Please delete any mappings to this sub-type from connectors that may be using it.
ALERT: Cannot modify this StValAttrMap as it is being used by one or more connectors. This may have caused some inconsistencies in data	Please delete any mappings that correspond to the given sub-type and attribute combination from connectors which may have such mappings.
ALERT: Cannot delete this Data Entity as it is used by a connector	Please delete any mappings to the sub-type that corresponds to this data entity from connectors that may be using this sub-type.
ALERT: Cannot delete this column as it is being used by one or more connectors	Please delete any mappings that correspond to the given sub-type and attribute combination from connectors that may have such mappings.

There are two audit tables which captures all the changes done by ADI refresh program. The structures are as follows:

• **fsi_adi_data_changes:** It stores the type of change for the object type and its name along with, the time when it is performed.

Column Name	Description
RUN_ID	This number identifies one execution of ADI refresh. Maximum number represents the latest ADI refresh execution.
ACT_ID	Activity ID. It is a number against each activity.
CHANGE_TIME_STAMP	Displays the activity time.
OBJ_TYPE	Displays the object type whether it is column or table.



OBJ_ID	It is an internal number.
OBJ_NAME	Displays the object name such as table or column name. If the obj_type is Col then it is column name and Table then it is table name.
CHANGE_TYPE	Represents what type of change whether it is added or removed etc. A means added.
ACTION_TAKEN	Whether action is taken up or not taken up.
COMMENTS	Displays the description of the activity. Such as "Column has been added".

• **fsi_adi_data_changes_details:** It Stores the old and new values in case of rename of name and description. This is the detailed table that has reference to fsi_adi_data_changes.

Column Name	Description
RUN_ID	This number identifies one execution of ADI refresh. Maximum number represents the latest ADI refresh execution.
ACT_ID	Activity ID. It is a number against each activity. This activity ID is same as whatever is there in fsi_adi_data_changes table.
CHNG_DESC	Displays type of change.
OLD_VAL	Displays the old value. In case of rename of column name, it shows name of the column before change.
NEW_VAL	Displays the new value. In case of rename of column name, it shows name of the column after change.

9.2 Refresh Target Datastores

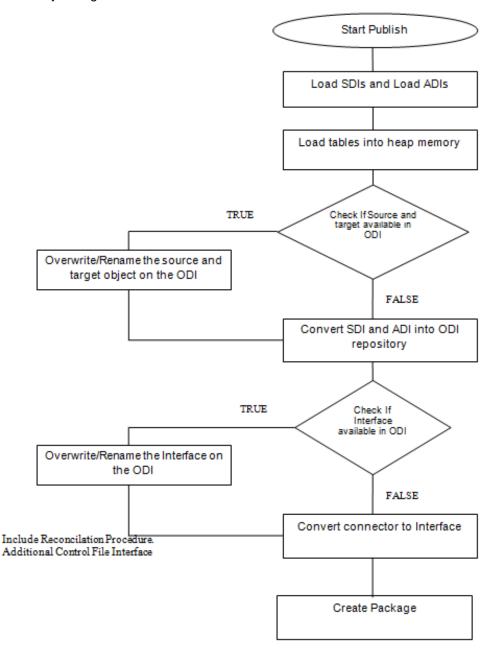
It represents underlying physical tables of every available ADI as data store in ODI. This process also works on incremental way

Post data model upload, if the changes are to be made available in DIH, then first click **Refresh ADI**. Once Refresh ADI is done, click **Refresh Target Datastore**.

NOTE: This is not a day to day activity.

10 Publishing DIH Metadata

Publishing is a process of transferring the DIH metadata to Oracle Data Integrator (ODI). It converts the DIH metadata into ODI metadata by creating required ODI objects such as DataServer, Logical/Physical Schema, Datastores, Interface, Package and Scenario. You cannot edit any DIH object after publishing. In order to edit, you need to unpublish, make the necessary changes and then re- Publish.



10.1 Batch Publishing and Unpublishing

You can batch publish/unpublish all the connectors to ODI at any given point.



Click the **Administration** option from the LHS menu and select **Publish/Unpublish Connectors** option. Click "Publish All" to publish all the connectors. Click "Unpublish All" to unpublish all the connectors.

Data Integra	ation Hub > Administration > Publish/Unpublish Connectors		
A 1	Publish/Unpublish Connectors Publish/Unpublish connectors in ODI		
	Publish All Publish all Saved Connectors	.	Unpublish All Unpublish all Published Connectors

11 Executing DIH Metadata

A published DIH Connector can be executed in the following two methods:

- **External schedule:** Execution is performed with the same connector name and same as ODI package/Scenario name.
- From OFSAA Batch: Creates a typical OFSAA Batch and executes it. For more information, refer to the AAI User Guide in <u>OTN</u> documentation library. The component is DIH Connector. You can select all the published connectors during task creation. DIH Connectors can be configured in Run Rules Framework (RRF) also with the same component.

NOTE: This can be done only on a published connector and not a saved connector.

• If the connector contains any Runtime parameters, they can be set in the Variables input field of the Task Definition Screen.

Example: MISDATE='10-Jan-2015'

• If there are multiple parameters, they can be passed by separating them with a comma.

Example: MISDATE='10-Jan-2015', BATCHID=22015

• MISDATE and BATCH ID can also be passed dynamically so that it is loaded from Batch Execution Screen as follows:

Example: MISDATE=\$MISDATE:dd-MM-yyyy, BATCHID=\$BATCHID

In the above example, the date format appended to MISDATE has to conform to Simple Date Format. If no date format is specified, the default date format used is yyyymmdd.

• If variables are being used as part of connector mappings or filter expressions, they should be passed within single quotes as follows:

Example: MISDATE= `\$MISDATE:dd-MM-yyyy', BATCHID= `\$BATCHID'

12 Execution History

Execution History option, provides the status of the DIH Connector executions, number of records loaded, and error messages if any.

	tical Applications	
Applications Object Administration System Configuration & Id	entity Management My Inbox	
Select Applications Financial Services Data Integration Hub	Data Integration Hub > Execution	
Application Data Interface Ba Data Mapping	Batch Execution Manage Batch execution rules	Batch Monitor Monitor a batch status
▶ 100 Orchestration ▶ 100 Exercution	Execution History Execution History	

12.1 Viewing the Execution History of a Connector

Select the 'Execution History option on the LHS. The Execution History page appears.

You can view the Execution History of a Connector at any given point. To view execution history:

- 1. Select the **Execution History** option from the LHS.
- 2. Select the checkbox adjacent to the Connector.

vices Analytical Applica	ations Infrastructure				
es Home About					
		Execution History			0
		Execution History			
				1	D
A Search					
Search Connector					60
				824	
			■ Ψ 1-2/	2 (1 (1 (1 (1)) Jump to page	
Connector	Duration (in sec)	Start Time	■ ♥ 1-2/ End Time ♥		
Connector * Execution History	Duration (in sec)			2 (1) (1) (1) Jump to page	0

3. Click the View 💻 button from the tool bar. The *Execution History* window appears.

Execution History > Execution History >		Execution History		
A Execution Step - VARIABLED				
Step	Duration (in sec)	Start Time	End Time	Status
VARIABLED	0	Deo 10, 2014 11:32:35 AM	Deo 10, 2014 11:32:35 AM	Success
Execution Step - RUNTIMEVARIABLE0				
Step	Duration (in seo)	Start Time	End Time	Status
RUNTIMEVARIABLED	0	Dec 10, 2014 11:32:35 AM	Dec 10, 2014 11:32:35 AM	Buccess
Execution Step - Performance TD Load_100				
Step	Duration (in sec)	Start Time	End Time	Status
Performance TD Load_100	6	Deo 10, 2014 11:32:35 AM	Dec 10, 2014 11:32:41 AM	Success
Error Message				
en man Jone Transmission (2004) and 1421. The second seco	specificance just 110 (severa just 110) statisment just 110 statisment just 110 statisment just 110 (severa just 110) (severa just 110) (severa just 110) statisficial statisficance just 110 (severa just 110) (severa just 110) (sev			

As the name suggests, this page provides the status of the DIH Connector executions, number of records loaded, and error messages if any.

13 MetaData Browser

The DIH metadata/objects available in the Meta Data Browser (MDB) are:

- Connector
- Application Data Interface
- External Data Descriptor

13.1 Connector

The connector link lists down the individual connectors.

When you click a connector name, it displays the definition of that connector.

- The name and description of the connector is displayed at the top.
- The "Selected EDD" grid which shows the EDD associated with the connector.
- The "Selected ADI" grid shows ADI for the connector.
- The "Joins" grid shows the join expression between EDDs if applicable.
- The "Mapping" grid shows mapping of the Left field with the Right attributes. Additionally, it displays the underlying physical columns.
- The "Depends On" grid shows EDD and ADI used in the connector.

						Last	Executed Date : 24-Jun-2015 19:40:28 Use	br∶DIHUSER C	onnected To : DIHINF
Application Object					Connect	ors			2
DESAA Metamodel	Data Foundation > Connector	> <u>Joins</u>							
Data Foundation									
B Source		Code/ID 200593				Nam	e Joins		
Source Entity		Description				Fold	er DIHUSERS		
Source Entity Application Data Interface	Details Statistics Au	dit Trail							
External Data Descriptor	Properties (2)								
	Name	Value					Ŧ		
- BigConnector	Operation	Import							
-D F2T	OFSAA module	Staging							
- File Connector In 1	» Selected EDD (2)								
- File Connector Out 1	EDD	External Data Store Nan	ne Exter	nal Data Store	Description External	Data Store Type Filter E	xpression		
File Connector Out 2	File Input 1	FileSrc1		Source	FILE				
Joins	STG TD CONTRACTS	OraSrc1	Orac	le Source 1	ORACLE	DB			
- MultiTarget	4) F
- Ora Connector Out 1	» Selected ADI (1)								
L XMLCON	ADI	Subtype		Description		Filter Expression			
🖻 🍑 Data Mapping	Customer Account	Term Deposit		Customer Ar	count				
🖲 🍓 Data File Mapping	» Joins (1)								
🗉 💖 Data Transformation	Left Entity	Right Entity		Lookup		Join Expression			
🖽 💭 Data Quality Rules						[File Input 1].[Account number] =	:		
🗄 🍄 Data Quality Groups	File Input 1	STG TD CONTRACT	<u>[S</u>	N		[STG_TD_CONTRACTS]. IV CONTRACT CODE]			
Business Metadata	₹								F
🗄 👆 Process Metadata	» Mapping (240)						1/12 🔄 💽 🚺 Jur	np To Page	
	Source Entity	Source Field	Expression		Target Entity	Target Field	Physical Fields		
	File Input 1	Product code			Customer Account	Product Code	STG TD CONTRACTS.V PROD COD	E	
	File Input 1	Tenor			Customer Account	Tenor	STG TD CONTRACTS.N TENOR		
	File Input 1 File Input 1	Total revenue GL code			Customer Account Customer Account	Total Revenue GI Code	STG TD CONTRACTS.N TOT REVEN	<u>RUE</u>	
< Þ	File Input 1	Channel code			Customer Account	Channel Code	STG TD CONTRACTS/V GL CODE	CODE	

13.2 External Data Descriptor

The "External Data Descriptor" window lists all the available External Data Store. Under each EDS it has all EDDs. When you click a particular EDD, it shows the definition of the EDD, with the name and Description displayed at the top.



- The "Properties" sections shows properties such as file name, file format and so on.
- The "Data Element" sections show all the fields that are part of this EDD.

	ta Browser Search Home						
Application Object				External Data Descrip	tor		R
🗉 🕕 OFSAA Metamodel 🛛 🔍				External Data Descrip			4 0
Data Foundation	Data Foundation > Externa	al Data Descriptor > FileSrc1 > <u>File I</u>	nput 1				
E Source							
Target Model		Code/ID 200583			Name File Ing		
Source Entity		Description Data in a comm	a separated file		Folder DIHUS	ERS	
Source Entity Application Data Interface	Details Statistics	Audit Trail					
External Data Descriptor		Audit frail					
	Properties (5)					Ψ	
ASampleFileSource	🕺 Name	Value					
III 🚳 DB2SRC	File Name	stg_td_contracts	.CSV				
🕫 🏙 FileSrc1	File Format	V					
File Input 1	Column Delimiter	\u002c					
B MyFileSrc	Skip number of Reco						
MyOracleSrc	Record Delimitter	\u000A					
OraSrc1	_ <u> </u>						
E B XMLSRC	» Data Elements (76)				1/4	Jump T	o Page
	Order	Name	Туре	Length	Precision	Format	Record Type Code
Connector	1	Account number	STRING	4000	0		
- BigConnector	2	Misdate	DATE	0	0	MM/DD/YYYY	
F2T	3	Product code	STRING	4000	0		
- File Connector In 1	4	Tenor	NUMERIC	38	0		
- File Connector Out 1	5	Total fee charges	NUMERIC	38	0		
- File Connector Out 2	6	Total revenue	NUMERIC	38	0		
Joins	7	Acct manager code	STRING	4000	0		
	8	Interest method	STRING	4000	0		
- MultiTarget	9	GL code	STRING	4000	0		
- Ora Connector Out 1	10	Previous cont code	STRING	4000	0		
L XMLCON	11	Channel code	STRING	4000	0		
🕂 🍱 Data Mapping	12	Contract status	STRING	4000	0		
Data File Mapping	13	deposit type	STRING	4000	0		
Data Transformation	14	Customer code	STRING	4000	0		
	15	Attr reason cd	STRING	4000	0		
🗉 🖣 Data Quality Rules	* 16	Joint acct indicator	STRING	4000	0		

13.3 Application Data Interface

The Application Data Interface window shows all the attributes along with descriptions of the List of Values (LOVs).

					Last Executed Date : 24-Jun-20	15 19:40:28 User : DIHUSER	Connected To : DI
Global Sear	ch Home						
plication Object			Applica	tion Data Interface			R
OFSAA Metamodel 🔍 📩	Data Foundation > Application Da	ata Interface > <u>Customer Master</u>					
Data Foundation							
Target Model		Code/ID 616			Name Customer Master		
Source Entity	0	Description Customer Master			Folder DIHUSERS		
P Application Data Interface	Details Statistics Audit	Trail					
Account Cash Flows	» Application Data Elemen	te (225)			1/12	Jump To Pa	
Account Dimension	Attribute Name		Mandatory ?	Domain	LOVs		.94
Common Coa Attr Intf Maste	Account Manager Code	This stores the account manager handling the customer. This would be relevant in the case of a corporate		Code_Alphanumeric_Long			
- Common Coa Hier Intf Mast		customer.					
Common Coa Master Common Coa Ti Intf Master	Acquisition Channel Code	There are different channels through which the customer can be acquired. These include advertisements, direct		Code Alphanumeric Long			
- Customer Account		marketing, member-get-member, cross- sell programs, etc					
Customer Attr Intf Master	Alias	Alias name for this customer. It is a name by which the customer is called		ShortName			
Customer Hier Intf Master		within his known set of people. This column stores the annual income					
Customer Master	Annual Income	of the customer.		Amount			
Customer TI Intf Master	Annual Sales	This column stores the customer annual sales amount		Amount			
- Customer Type Master - Date Dimension	Apartment Name	This stores the name of the apartment/building /condominium/house where the customer resides.		DESCRIPTION			
Economic Indicators Embedded Options Schedul	Assets Value	This column stores the Total Asset Value of the customer.		Amount			
Exchange Rates Forecast Balances	Atm Maximum Daily Withdrawal Amount For Liability Account- Base	from liability accounts, expressed in		Amount			
Forecast Economic Indicato Next External Data Descriptor AsampleFileSource ASampleFileSource	Beneficial Owner Category	base currency. This column stores the beneficial owner category. List divalues can be Grantor Trust, Central Bank Issue, Individual, Complex Trust. Tax-exempt Organization, Corporation, Estate, Private Foundation, Disregarded Entity, Government, Partnership, International Organization ad Simple Trust."		Code_Alphanumeric_Long_Type	13		

Appendix A: Use Cases

Loading Data from One File into Staging

To load data from one file to Staging, follow the below steps:

- 1. Create an EDS of the type **File**.
- 2. Create EDD by selecting the pre-defined EDS. Provide all required information while creating the EDD. If post loading reconciliation is required then go to Control tab and provide a control record.
- 3. Create a Connector for loading data into staging. If SQLLDR option is enabled, then the file with ODI agent running should be available. If External Table option is selected, then file has to be available in target database server.
- 4. Publish the Connector.
- 5. Execute the Connector.

Loading Data from Two Files Joined into Staging

To load data from two files which are joined, to Staging, follow the below steps:

- 1. Create EDS of type File.
- 2. Create two EDD by selecting the pre-defined EDS. Provide all required information while creating EDD. If post loading reconciliation is required then go to Control tab and provide a control record.
- Create connector for loading data into staging. Select both the EDDs and establish a join in source tab. If SQLLDR option is enabled, then the file with ODI agent running should be available. If External Table option is selected, then file has to be available in target database server.
- 4. Publish the Connector.
- 5. Execute the Connector.

Loading Data into Staging from File and Performing Lookup into a Table

To load data from a file, to Staging, and perform lookup into a table, follow the below steps:

- 1. Create one EDS of type **File** and another EDS of type **Database**.
- Create two EDD by selecting the predefined EDS. Provide all required information while creating the EDD. If post loading reconciliation is required then go to Control tab and provide a control record. Post loading reconciliation is only applicable for file type Data Loading.
- 3. Create a Connector for loading data into staging. Select both the EDDs and establish a join and click **Lookup**. If SQLLDR option is enabled, then the file with



ODI agent running should be available. If External Table option is selected, then file has to be available in target database server.

- 4. Publish the Connector.
- 5. Execute the Connector.

Loading Data into Staging from an XML File

To load data to Staging from an XML file, follow the below steps:

- 1. Create an EDS of type **XML**.
- Create EDD by selecting the predefined EDS. Provide all required information while creating the EDD. To get the XML structure, use XSD file. If post loading reconciliation is required then go to Control tab and provide a control record. The control record should be in a separate file.
- 3. Create a Connector for loading data into staging.
- 4. Publish the Connector.
- 5. Execute the Connector.

Loading Data into Staging from EBCDIC

To load data to Staging from EBCDIC, follow the below steps:

- 1. Create an EDS of type EBCDIC.
- Create EDD by selecting the predefined EDS. Provide all required information while creating the EDD. To define the EBCDIC structure, use Cobol Copy book file. If post loading reconciliation is required then go to Control tab and provide a control record. The control record should be in a separate file.
- 3. Create a Connector for loading data into staging.
- 4. Publish the Connector.
- 5. Execute the Connector.

Loading Data from File into Multiple ADI/Subtypes

To load data from File into multiple ADI/Subtypes, follow the below steps:

- 1. Create an EDS of type **File**.
- 2. Create EDD by selecting the predefined EDS. Provide all required information while creating the EDD. To define the file structure, you can use Excel template. If post loading reconciliation is required then go to Control tab and provide a control record.
- 3. Create a Connector for loading data into staging. Select multiple ADIs/Subtypes. Set filter against each ADI/Subtype selected to identify which record goes where.
- 4. Publish the Connector.
- 5. Execute the Connector.

Loading Data into Results from File

To load data into Results from File, follow the below steps:

- 1. Create an EDS of type **File**.
- Create EDD by selecting the predefined EDS. Provide all required information while creating the EDD. To define the File structure, you can use Excel template for defining the columns. If post loading reconciliation is required then go to Control tab and provide a control record. The control record has to be in a separate file.
- 3. Create a Connector for loading data into results. Select EDD and ADI (appears only relevant for Result area). During mapping, code values that are available in file should be mapped to the attributes (that are internally number columns). While loading it converts the code value to surrogate key by performing a lookup in the related dimension table. Dimension data should be populated before this loading occurs using SCD process.
- 4. Publish the Connector.
- 5. Execute the Connector.

Extracting Data from Staging into File

To extract data from Staging into File, follow the below steps:

- 1. Create an EDS of type File.
- Create EDD by selecting the predefined EDS. Provide all required information while creating the EDD. To define the File structure, you can use Excel template for defining the columns. If post loading reconciliation is required then go to Control tab and provide a control record. The control record has to be in a separate file.
- 3. Create Connector for extracting data from staging. ADI becomes source and EDD becomes target. File structure will be according to EDD.
- 4. Publish the Connector.
- 5. Execute the Connector.

Extracting Data from Result into File

To extract data from Results into File, follow the below steps:

- 1. Create an EDS of type **File**.
- Create EDD by selecting the predefined external data store. Provide all required information while creating the EDD. To define the File structure, you can use Excel template for defining the columns. If post loading reconciliation is required then go to Control tab and provide a control record. The control record should be in a separate file.
- Create a Connector for extracting data from results. ADI becomes source and EDD becomes target. File structure will be according to EDD. During extract internal surrogate keys get converted into code values by performing looking up into dimension table.
- 4. Publish the Connector.



5. Execute the Connector.



Oracle Financial Services Data Integration Hub User Manual

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