Oracle® Financial Services Data Foundation Cloud Service for Banking

DFCS Integration with PBSMCS for ADS User Guide

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Oracle Financial Services Data Foundation Cloud Service for Banking DFCS Integration with PBSMCS for ADS User Guide, Release 25C

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About This Guide

This section provides supporting information for the Oracle Data Foundation Cloud Services for Banking (DFCS).

Audience

This document contains release information of Oracle Data Foundation Cloud Services for Banking (DFCS).

Documentation Accessibility

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

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Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Resources

- Data Foundation for Banking

Conventions

The following text conventions are used in this document.

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Get Help in the Applications

Use help icons to access help in the application.

Note that not all pages have help icons. You can also access the Oracle Help Center to find guides and videos.

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Welcome to Oracle Cloud

Oracle Cloud is the industry's broadest and most integrated cloud provider, with deployment options ranging from the public cloud to your data center. Oracle Cloud offers best-in-class services across Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS).

3.1 Supported Web Browsers

Oracle Financial Services Accounting Foundation Cloud supports the latest version of the following major browsers:

- Google Chrome
- Microsoft Edge
- Mozilla Firefox

For more details, see Oracle Software Web Browser Support Policy. When sharing a link to a document or folder, users of Microsoft Edge need to use the **Show Link** button and copy the link shown in the dialog.

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Order Oracle Cloud Applications

You can order Oracle Cloud Applications (Software as a Service) offerings by contacting Oracle Sales. After your order is processed, you can then activate your services.

To order a subscription to Oracle Cloud Applications:

1. Go to the Oracle Financial Services Risk and Finance solutions page.
2. Scroll down and select **Data Foundation**.
3. Review the features and capabilities of the service and read the Datasheet.
4. When you are ready to order, scroll up and click **Request a Demo**.
5. You can either write an Email or click **Request Now** to receive a call from Sales.
6. Enter your Business Email, select the confirmation check box, and click **Continue**.
7. Describe of your need and click **Request Now**.

Later, after you have worked with Oracle Sales to order the Oracle Cloud Application best suited to your requirements, you will receive an email, which contains a link you can use to activate the service you have ordered.

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Introduction

The Oracle Financial Services Data Foundation Cloud Service (DFCS) for Banking offers a data management platform tailored to meet both internal and regulatory data requirements for banks. It includes a comprehensive data catalog designed to support key analytical use cases across finance, risk, and compliance domains. DFCS acts as unified sourcing layer for finance, risk, and compliance consumption use cases.

Application Data Service (ADS) in DFCS facilitates seamless data transfer between DFCS and other Oracle Applications. ADS is designed to streamline and simplify data sourcing for downstream use cases. It also provides capabilities to produce a unified results data layer by sourcing output of downstream use cases into DFCS.

Oracle Financial Services Profitability and Balance Sheet Management Cloud Service (PBMCS) helps Institutions measure and manage profitability at the lowest level of detail, the account level, and allows for a rollup of profitability results across any dimension.

This guide explains how to use the Application Data Service (ADS) in the Profitability and Balance Sheet Management Cloud Service (PBSMCS). It provides details on data integration between DFCS and PBSMCS. Currently, ADS supports *ONLY* source data supply from DFCS to PBSMCS. In the future releases, ADS will also support importing results data from PBSMCS into DFCS.

ADS is defined using:

- Application Glossary
- Glossary Mapping - business term mapping between application glossary and DFCS glossary, and
- Domain-specific ADS connectors.

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Application Glossary

The PBSMCS glossary defines the logical attributes (or business terms) in PBSMCS. As a core part of the ADS, it describes both the input data required by PBSMCS and the output it generates. The glossary consists of around 30 entities and approximately 800 business terms, such as 'Account or Contract Number' and 'Interest Accrued Amount' within the FSI Assets entity.

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Application Glossary Mapping to Data Foundation

The PBSMCS Glossary Mapping connects PBSMCS business terms with DFCS business terms, creating a logical translation layer between PBSMCS and DFCS. This mapping ensures that terms used in PBSMCS are accurately aligned with those in DFCS. It serves as a reference document to maintain consistency in business term mappings across connectors.

There are 3 types of mappings that are provided out-of-the-box.

- Direct Mapping
- List-of-Value (LoV) Mapping
- Expression Mapping

7.1 Direct Mapping

Direct mappings are the most common type, where a business term in PBSMCS has the same name or similar name as in DFCS. Mapped business terms have compatible data type and have the same list-of-values (LoV), if any. There are ~750 direct mappings identified between PBSMCS and DFCS business terms.

Example:

Table 7-1 Direct Mapping Table

PBSMCS	DFCS
Branch ID	Branch Identifier
Collateral Code	Mitigant Code

7.2 List of Values (LOV) Mapping

List of Values (LoV) mappings are used when a value for a business term in the source needs to be mapped to a different value in the target. Since, LoVs are well-defined for source and target business terms, DFCS allows a mapping of LoVs to be maintained between source and target business terms. Thus, it ensures that the data conforms to the specific set of allowed values in the target system. For PBSMCS, there are ~20 LoV mappings.

The first kind of LoV mapping between DFCS and PBSMCS is that is pre-defined (seeded) within DFCS. An LOV from a business term in DFCS is automatically mapped to a business term in PBSMCS. The user does not need to take any action.

Table 7-2 Type 1 – Pre-defined Mapping between Source Data and PBSMCS

Source Business Term Code	Source Business Term Name	PBSMCS Business Term Code	PBSMCS Business Term Name
Day Count Indicator	Day Count Indicator Name	Accrual Basis Code	Accrual Basis Name
Interest Rate Type	Interest Rate Type Name	Adjustable Type Code	Adjustable Type Name
Amortization Type	Amortization Type Name	Amortization Type Code	Amortization Type Name
Behavior Type	Behavior Type Name	Behavior Type Code	Behavior Type Name
Scenario Code	Scenario Name	Consolidation Code	Consolidation Name
Credit Status Code	Credit Status Name	Credit Status Code	Credit Status Name
Income Documentation Program Code	Income Documentation Program Name	Documentation Code	Documentation Name
Lien Position Code	Lien Position Name	Lien Position Code	Lien Position Name
Mortgage Occupancy Code	Mortgage Occupancy Name	Occupancy Code	Occupancy Name
Option Type	Option Type Description	Option Type Code	Option Type Name
Payment Type Code	Payment Type Name	Payment Type Code	Payment Type Name
Dimension Code	Dimension Name	Dimension Numeric Identifier	Dimension Name

Table 7-3 Example of Type 1 LoV Mapping:

Source - Interest Rate Type	Source - Interest Rate Type Name	PBSMCS - Adjustable Type Code	PBSMCS- Adjustable Type Name
Source - Interest Rate Type	Source - Interest Rate Type Name	PBSMCS - Adjustable Type Code	PBSMCS- Adjustable Type Name
Fixed Rate	Fixed Rate	FIX	Fixed Rate
Floating Rate	Floating Rate	FLOAT	Floating Rate
Other Adjustable	Other Adjustable	OTH_ADJ	Other Adjustable
Repricing Pattern	Repricing Pattern	REP_PAT	Repricing Pattern
Tier Rate	Tier Rate	TIER_RATE	Tiered Balance Interest Rate

User Specified Mapping between Source Data and PBSMCS

This is performed through a mapping table that refers to e.g. Account Status Code as Application Service Status Code. In Glossary Mapping and Connector Mapping for ADS, you will see mapping between Account Status Code (PBSMCS) to Application Service Account Status Code (DFCS).

Table 7-4 Type 2 – User Specified Mapping between Source Data and PBSMCS

Source Business Term Code	Source Business Term Name	PBSMCS Business Term Code	PBSMCS Business Term Code	Mapper Name
Account Status Code	Application Service Account Status Name	Account Status Code	Account Status Name	Mapper Base for Account Status Code in Profitability and Balance Sheet Planning
Party Type	Application Service Party Type Name	Customer Type Code	Customer Type Name	Mapper Base for Customer Type Code in Profitability and Balance Sheet Planning
Account Purpose Code	Application Service Account Purpose Name	Purpose Code	Purpose Name	Mapper Base for Purpose Code in Profitability and Balance Sheet Planning
Product Code	Application Service Product Name	Instrument Type Code	Instrument Type Name	Mapper Base for Instrument Type Code in Profitability and Balance Sheet Planning

Table 7-5 Example of Type 2 LoV Mapping:

DFCS – Behavior Sub Type	DFCS – Behavior Sub Type	PBSMCS – Behavior Type Code	PBSMCS- Behavior Type Code
D1	Doubtful 1	NP	Non-Performing
D2	Doubtful 2	NP	Non-Performing
D3	Doubtful 3	NP	Non-Performing
DBTFL	Doubtful	NP	Non-Performing
DR	Devolvement and Recovery	DR	Devolvement and Recovery
LOSS	Loss	NP	Non-Performing
NM	Non-Maturity	NM	Non-Maturity
S	Standard	NP	Non-Performing
SPECMEN	Special Mention	NP	Non-Performing
SUBSTRD	Substandard	NP	Non-Performing

In the above example the LOV mapping will be executed via a mapper.

The user provides mapping for 4 dimension-related business terms. The user runs SCD as part Dim population Pipeline to ensure history is captured.

The below example is for Account Status Code (PBSMCS) to Account Status Code (DFCS) mapping which the user must upload.

7.3 Expression Mapping

Expression mappings use formulas or expressions to transform source business terms into equivalent target business terms. There are **10 Expression Mappings**.

Example:

- Source: *Leg Type Code* in **PBSMCS**
- Target: *Leg Type Code (Expression)* in **DFCS**
- Transformation logic (expression):

```
CASE
   WHEN [Leg Type] = 1 THEN 'PAY'
   WHEN [Leg Type] = 2 THEN 'RCV'
   ELSE 'NDER'
END
```

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Application Data Service Connectors

A *Connector* is a data integration entity that defines the pipeline for data transfer from a source system (e.g., DFCS) to the target application (PBSMCS).

Key properties of a connector:

- **Connector Code and Name**: Each connector has a unique code and descriptive name for easy identification.
- **Defined Source and Target Entities**: A connector specifies the source entities and the corresponding target entity.
- **Business Terms Mapping**: It includes direct and derived mappings of business terms between source and target.
- **Direct Mapping**: The most frequently used mapping type is a direct mapping, where a PBSM business term corresponds exactly or closely to a matching term in DFCS.
- **Expression Mapping**: Also known as "Derived" mappings in the data files, expression mappings involve applying a specific formula or logic to translate a source business term into its target equivalent. These are used when direct or LOV mappings cannot fulfill the requirement.

PBSMCS ADS Connectors are grouped into 8 logical categories, each representing a distinct domain of data. PBSMCS will subscribe and orchestrate data movement jobs for these categories. Overall there are 35 connectors.

1. Customer
2. Dimensions
3. Exchange Rate
4. Instruments
5. Instruments Supplementary
6. Instruments Transaction Summary
7. Market Rates
8. Management Ledger

In the below tables we define some important parameters in terms of connector mappings for the above-mentioned categories.

Table 8-1 Parameters for Connector Mapping

Parameters	Connector Mapping
# of fields	Total count of mapped business terms mapped
# of key fields	Count of business terms mapped as Primary Keys
# of Direct Mapping	Count of business terms mapped as Direct
# of Expression Mapping	Count of business terms mapped as an Expression
# of variable mapping	Count of business terms mapped as parameters to be passed during execution

8.1 Customer

This category includes **connectors that handle customer-related data**, such as attributes, classifications, relationships, and identifiers of customers who own or interact with financial products.

There are 2 **Entities** mapped under the customer category.

1. Stage Customer

- **Key attributes marked as Primary Keys (PK):** Party Identifier, As Of Date
- **Execution Parameters (variable mappings):**
  - Input File Name
  - Load Identifier
  - Data File Specifications ID

2. Stage Customer Hierarchy

- **Key attributes marked as Primary Keys (PK):** As Of Date, Hierarchy Code, Parent Code, Child Code
- **Execution Parameters (variable mappings):**
  - Version Number (default = 1)
  - Input File Name
  - Load Identifier
  - Data File Specifications ID

> **Note**
>
> There are no LOV mappings in this category.

Table 8-2 List of connectors in this category is listed below

#	Connector Name	Data Foundation Entity	PBSMCS Entity	# of fields	# of key fields	# of Direct Mapping	# of variable mapping
1	Customer	Party	Staging Customer	10	2	5	3
2	Customer	Party Hierarchy	Staging Customer Hierarchy	11	4	3	4

8.2 Dimensions

This category defines business dimensions that provide contextual metadata to fact entities. Dimensions help in slicing and dicing data for reporting and analytical needs.

Entities

1. Stage Dimensions Hierarchy Interface

- **Primary Keys (PK):** Hierarchy Code, Parent Member Numeric Identifier, Child Member Numeric Identifier

2. Stage Dimensions Members Interface

- **Primary Keys (PK):** Member Numeric Identifier

3. Stage Dimensions Attribute Interface

- **Primary Keys (PK):** Member Attribute Name, Member Numeric Identifier

4. Stage Dimensions Translation Interface

- **Primary Keys (PK):** Member Numeric Identifier, Multi Language Code

> **Note**
>
> There is **1 LOV mapping** in this category.

Variable mappings are **not required** for Dimensions tables, so they are not listed here.

Table 8-3 List of connectors

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of LOV Mapping
1	Dimensions	Preparation Dimensions Hierarchy	Stage Dimensions Hierarchy Interface	8	3	4	1
2	Dimensions	Preparation Dimensions Members	Stage Dimensions Members Interface	8	1	6	1
3	Dimensions	Preparation Dimensions Attribute	Stage Dimensions Attribute Interface	5	2	2	1
4	Dimensions	Preparation Dimensions Translation	Stage Dimensions Translation Interface	8	2	5	1

8.3 Instruments

Connectors in this category manage core financial instruments and products, such as loans, deposits, contracts, and securities, along with their terms, conditions, and balances associated with each instrument.

Entities

For all target entities in the Instruments category:

- **Primary Keys (PK):** As Of Date, Account or Contract Number
- **Execution Parameters (variable mappings):**
  - Input File Name

- Load Identifier
- Data File Specifications ID

Table 8-4 List of connectors in this category is listed below

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of Expression Mapping	# of variable mapping	# of LOV mapping
1	Instruments	Stage Letter of Credit	Stage Off Balance sheet	91	2	80	1	3	5
2	Instruments	Stage Borrowings	Stage Liability	135	2	121	1	3	8
3	Instruments	Stage CASA	Stage Liability	159	2	145	1	3	8
4	Instruments	Stage Term Deposit Contracts	Stage Liability	161	2	149	1	3	6
5	Instruments	Stage Bill Contracts	Stage Assets	99	2	87	1	3	6
6	Instruments	Stage Cards	Stage Assets	145	2	133	0	3	7
7	Instruments	Stage Investments	Stage Assets	148	2	135	1	3	7
8	Instruments	Stage Over-Draft Contracts	Stage Assets	151	2	133	5	3	8
9	Instruments	Stage Loan Contracts	Stage Assets	230	2	207	8	3	10
10	Instruments	Stage Leases Contracts	Stage Assets	167	2	147	8	3	7
11	Instruments	Stage Foreign Exchange Contracts	Stage Derivatives	248	2	236	1	3	6
12	Instruments	Stage Forward Contracts	Stage Derivatives	236	2	225	1	3	5

Table 8-4 (Cont.) List of connectors in this category is listed below

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of Expression Mapping	# of variable mapping	# of LOV mapping
13	Instruments	Stage Option Contracts	Stage Derivatives	271	2	259	1	3	6
14	Instruments	Stage Swaps Contracts	Stage Derivatives	275	2	264	1	3	5
15	Instruments	Stage Commitment Contracts	Stage Loan Commitments	95	2	84	0	3	6

8.4 Instruments Supplementary

The following four entities are grouped under this category.

- **Stage Account Index History**: The primary key (PK) attributes are *As of Date*, *Index Value Start Date*, and *Account or Contract Number*.
  The execution parameters to be passed include *Input File Name*, *Load Identifier*, and *Data File Specifications ID*.
- **Stage Account Rate Tiers**: The primary key (PK) attributes are *As of Date*, *Account or Contract Number*, and *Account Rate Tier Name*.
  The execution parameters to be passed include *Input File Name*, *Load Identifier*, and *Data File Specifications ID*.
- **Stage Embedded Options**: The primary key (PK) attributes are *As of Date*, *Account or Contract Number*, and *Account Rate Tier Name*.
  The execution parameters to be passed include *Input File Name*, *Load Identifier*, and *Data File Specifications ID*.
- **Stage Payments Schedule**: The primary key (PK) attributes are *As of Date*, *Account or Contract Number*, *Payment Date*, *Instrument Type*, and *Leg Type*.
  The execution parameters to be passed include *Input File Name*, *Load Identifier*, and *Data File Specifications ID*.

> **Note**
>
> There is 1 LOV mapping for Stage Account Rate Tiers and Stage Payments Schedule each.

Table 8-5 Stage Account Rate Tiers and Stage Payments Schedule table

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of Expression Mapping	# of variable mapping	# of LOV mapping
1	Instruments Supplementary	Stage Account Index History	Stage Account Index History	10	3	3	1	3	0
2	Instruments Supplementary	Stage Account Rate Tiers	Stage Account Rate Tiers	28	3	21	0	3	1
3	Instruments Supplementary	Stage Embedded Options Schedule	Stage Embedded Options Schedule	9	3	2	1	3	0
4	Instruments Supplementary	Stage Payment Schedule	Stage Payment Schedule	12	3	4	1	3	1

8.5 Instrument Transactions Summary

This category consists of connectors that aggregate or summarize transactions across various financial instruments. These are typically used to generate reports or provide analytics for tracking volumes, flows, or positions.

There are four entities mapped under this category:

- **Stage Liability Transactions Summary**
- **Stage Off Balance Sheet Transaction Summary**
- **Stage Fee-Based Transaction Summary**
- **Stage Asset Transaction Summary**

For all these entities, the key attributes marked as primary keys (PKs) are:

- *As of Date*
- *Account or Contract Number*
- *Common Chart of Account Code*
- *General Ledger Account Code*
- *ISO Currency Code*
- *Legal Entity Code*
- *Organization Unit Code*
- *Product Code*

The execution parameters to be passed include:

- *Input File Name*
- *Load Identifier*
- *Data File Specifications ID*

Table 8-6 List of connectors in this category is listed below:

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of variable mapping
1	Instruments Transactions Summary	Stage Liability Transactions Summary	Stage Account Cost Summary	15	8	4	3
2	Instruments Transactions Summary	Stage Off Balance sheet Transaction Summary	Stage Account Cost Summary	15	8	4	3
3	Instruments Transactions Summary	Stage Fee Based Transaction Summary	Stage Account Cost Summary	15	8	4	3
4	Instruments Transactions Summary	Stage Asset Transaction Summary	Stage Account Cost Summary	15	8	4	3

8.6 Market Rates

Market reference data connectors bring in essential data like interest rates, FX rates, and inflation indices, required for valuation, discounting, and financial projections.

There are two entities mapped under this category:

- **Stage IRC Rates History**
- **Stage Currency Exchange Rates**

In **Stage IRC Rates History**, the key attributes marked as primary keys (PKs) are:

- *As of Date*
- *Interest Rate Term Unit Indicator*
- *Interest Rate Term*
- *Interest Rate Code Name*
-

The execution parameters to be passed are:

- *Input File Name*
- *Load Identifier*
- *Data File Specifications ID*
-

In **Stage Currency Exchange Rates**, the key attributes marked as primary keys (PKs) are:

- *As Of Date*
- *Effective Date*
- *Target Currency Code*
- *Data Source Code*
- *Source Currency Code*

The execution parameters to be passed are:

- *Input File Name*
- *Load Identifier*
- *Data File Specifications ID*

Table 8-7 List of connectors in this category is listed below:

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of variable mapping
1	Market Rates	Stage IRC Rates	Stage IRC Rates History	10	4	5	1
2	Market Rates	Stage Currency Exchange Rates	Stage Exchange Rates	9	5	1	3

8.7 Management Ledger

Management reporting data connectors handle financial information for internal reporting, such as trial balances, financial positions, and profitability breakdowns.

There is one entity mapped under this category:

- **Stage Management Ledger**

In **Stage Management Ledger**, the key attributes marked as primary keys (PKs) are:

- *As of Date*
- *General Ledger Account Code*
- *Organization Unit Code*
- *ISO Currency Code*
- *Financial Element Code*
- *Legal Entity Code*
- *Common Chart of Account Code*
- *Product Code*

The execution parameters to be passed are:

- *Input File Name*
- *Load Identifier*
- *Data File Specifications ID*

Table 8-8 List of connectors in this category is listed below:

#	Connector Name	Primary Source	Target	# of fields	# of key fields	# of Direct Mapping	# of variable mapping
1	Management Ledger	Stage Management Ledger	Stage Management Ledger	14	8	3	3