

Oracle® Banking Digital Experience Mid-Office Product Setup and Configuration Guide



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Contents

Preface

Purpose	i
Audience	i
Documentation Accessibility	i
Critical Patches	i
Diversity and Inclusion	ii
Related Resources	ii
Conventions	ii
Screenshot Disclaimer	ii
Acronyms and Abbreviations	ii

1 Introduction

2 Trade Finance

2.1 Oracle Banking Trade Finance Process Management (OBTFFPM)	1
2.1.1 Mandatory Executions	1

3 Corporate Lending

3.1 OBRH Integration	1
3.2 Verify System Configurations	2

4 Supply Chain Finance

4.1 Non Customer Onboarding using Chaining	1
4.2 OBRH Integration	3

5 Receivables or Payables Management

5.1 OBRH Integration	1
5.2 Verify System Configurations	3
5.3 Enumerations	4

5.4	Adapter Properties	4
5.5	OBCM to OBDX Error code mapping	4
6	Virtual Account Management	
6.1	OBRH Integration	1
6.2	Verify System Configurations	4
6.3	Enumerations	5
6.4	Adapter Properties	5
6.5	Cloud specific Configurations	5
6.6	OBVAM to OBDX Error code mapping	5
7	Cash Management System	
7.1	OBRH Integration	1
7.2	Verify System Configurations	4
7.3	Enumerations	4
7.4	Adapter Properties	4
7.5	OBCM to OBDX Error code mapping	5
8	Credit Facility Management	
8.1	OBRH Integration	1
8.2	Verify System Configurations	2
8.3	OBCFPM / ELCM to OBDX Error code mapping	3
9	Liquidity Management	
9.1	OBRH Integration	1
9.2	Verify System Configurations	3
9.3	Enumerations	3
9.4	Adapter Properties	4
9.5	Simulation IC Group maintenance	4
9.6	Cloud Specific Configurations	5
9.7	Host Notifications	6
9.8	OBLM to OBDX Error code mapping	7
10	OBRH Integration Configuration	

Index

Preface

- [Purpose](#)
- [Audience](#)
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)

Purpose

This guide is designed to help acquaint you with the Oracle Banking application. This guide provides answers to specific features and procedures that the user needs to be aware of the module to function successfully.

Audience

This document is intended for the following audience:

- Customers
- Partners

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Related Resources

For more information on any related features, refer to the following documents:

- Oracle Banking Digital Experience Cloud Service Licensing Manuals

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.
<i>italic</i>	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.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description
OBDXCS	Oracle Banking Digital Experience Cloud Service

1

Introduction

This document is intended for setting up OBDX 25.1.1.0.0 with different Mid-Office Products.

2

Trade Finance

This topic provides the information about the configurations of trade finance.

- [Oracle Banking Trade Finance Process Management \(OBTFPM\)](#)
This topic provides information on Oracle Banking Trade Finance Process Management (OBTFPM).

2.1 Oracle Banking Trade Finance Process Management (OBTFPM)

This topic provides information on Oracle Banking Trade Finance Process Management (OBTFPM).

To set up OBDX Trade Finance with OBTFPM, the following actions are required.

- [Mandatory Executions](#)
This topic provides information on mandatory executions.

2.1.1 Mandatory Executions

This topic provides information on mandatory executions.

Execute the following script at OBDX database and restart the managed server.

```
../installables/db/OBTFPM/DIGX_FW_CONFIG_ALL_0.sql
```

Note

'%ENTITY_ID%' should be replaced with entity identifier (For example 'OBDX_BU').

3

Corporate Lending

This topic provides the information about the configurations of corporate lending.

- [OBRH Integration](#)
This topic provides information on OBRH Integration.
- [Verify System Configurations](#)
This topic provides information on verify system configurations.

3.1 OBRH Integration

This topic provides information on OBRH Integration.

During Bank Implementation, assuming OBRH is installed and configured as part of OBCLPM installation.

For OBDX and mid Office OBCLPM integration, and OBDX and back Office OBCL integration using OBRH, the following configurations need to be done.

Carry out all the steps mentioned in OBRH Integration Configuration section in this document.

The service provider for mid-office product OBCLPM end-points configured in OBRH is "OBCLPM" and the service provider for back-office product OBCL is "OBCL".

Table 3-1 Interface Details - Field Description

Interface ID	Transaction Name	Description
CORPORATE_LOAN_ROLLOVER	Loan Rollover	The API is used to post the roll over for a specific loan to Loans Mid Office
CORPORATE_BULK_LOAN_SETTLEMENT	Multiple Loan Settlement	This API is used to post single and bulk loan settlement to Loans Mid Office
LOAN_DISBURSEMENT_DETAILS	Disbursement Details	This API is used to fetch disbursement details from Loans Back Office
LOAN_SCHEDULE_DETAILS	Schedule Details	This API is used to fetch schedule details from Loans Back Office
LOAN_OUTSTANDING_DETAILS	Outstanding Details	This API is used to fetch outstanding details from Loans Back Office
LOAN_DETAILS	Loan Details	This API is used to fetch loan details from Loans Back Office
LOAN_ACCOUNT_LIST	Loan Account List	This API is used to fetch list of accounts from Loans Back Office
LOAN_RATEREVISION_DETAILS	Rate Revision Details	This API is used to fetch rate revision details from Loans Back Office

Table 3-1 (Cont.) Interface Details - Field Description

Interface ID	Transaction Name	Description
LOAN_FULL_OUTSTANDING_DETAILS	Full Outstanding Details	This API is used to fetch full outstanding details from Loans Back Office
CORPORATE_LOAN_SWIFT_MESSAGE_OR_ADVICES	Swift Message or Advices	This API is used to fetch corporate loan swift message and advices from Loans Back Office
CORPORATE_LOAN_SETTLEMENT_SIMULATION	Loan Settlement Simulation	This API is used to fetch corporate loan settlement simulation from Loans Back Office
CORPORATE_LOAN_SETTLEMENT	Loan Settlement	This API is used to post corporate loan settlement from Loans Back Office
LOAN_PRODUCT_PROCESSING_CHARGES	Processing Charges	This API is used to fetch processing charges of a product from Loans Back Office
LOAN_DRAWDOWN_APPLICATION	Drawdown Application	This API is used to post drawdown application to Loans Mid Office
LOAN_APP_FETCH_APPLICATION_STATUSES	Application Status	This API is used to fetch status of a drawdown application from Loans Mid Office
LOAN_APP_PRODUCT_DETAILS	Product Details	This API is used to fetch product details from Loans Mid Office
LOAN_APP_PRODUCT_LIST	Product List	This API is used to fetch product list from Loans Mid Office
LOAN_APP_PRODUCT_SEGMENT	Product Segment	This API is used to fetch product segment from Loans Mid Office
LOAN_APP_PURPOSE_DETAILS	Purpose List	This API is used to fetch purpose list from Loans Mid Office

3.2 Verify System Configurations

This topic provides information on verify system configurations.

Following script helps in listing the Corporateloan specific System Configurations:

```
SELECT
    dfrbcn.resource_value as "Property Name on System Configuration
Screen",
    dfrbcd.resource_value as "Property Description on System
Configuration Screen",
    substr(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')
+1), INSTR(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')+1), '.')+1)
as "Property ID in the Database", dccab.prop_value as "Property Value
in the Database",
    dccao.prop_value as "Overridden Property Value in the Database" from
    OBDX_TRUNK_25GA.DIGX_CFG_CONFIG_ALL_B dccab left join
    OBDX_TRUNK_25GA.DIGX_FW_RESOURCE_BUNDLE dfrbcn on dccab.prop_id =
```

```
dfrbcn.resource_name and
    dfrbcn.bundle_name = 'ConfigName' left join
OBDX_TRUNK_25GA.DIGX_FW_RESOURCE_BUNDLE dfrbcd
    on dccab.prop_id = dfrbcd.resource_name and dfrbcd.bundle_name =
'ConfigDiscription' left
    join OBDX_TRUNK_25GA.DIGX_CFG_CONFIG_ALL_0 dcca0 on dccab.prop_id =
dcca0.prop_id and
    dcca0.determinant_value = '{{determinant_value}}' where
dccab.sequence != '-1' and
    dccab.module = 'corporateloan';
```

4

Supply Chain Finance

This topic provides the information about the configurations of supply change finance.

- [Non Customer Onboarding using Chaining](#)
This topic provides information on non Customer onboarding using chaining.
- [OBRH Integration](#)
This topic provides information on OBRH integration.

4.1 Non Customer Onboarding using Chaining

This topic provides information on non Customer onboarding using chaining.

Now in the standard scenario, the core system contains the Customer data and the OBSCF mid office system contains the Non Customer data. Thus in order to onboard a non customer (give channel access) the system needs to inquire in OBSCF mid office.

But till now the system was inquiring only in Core system, which we still need for the onboarding of customers. Thus a concept of chaining is introduced where for a given corporate, the system will first inquire in Core system and if found then the given corporate is a customer but if not found then the system will inquire in OBSCF mid office system and if found there then the given corporate is a non customer.

Now, the chaining is not only implemented for 2 levels (calling only 2 systems) but it can be implemented for n levels. Also there is a provision to break a chain at any level or if there is a case that there is an overridden adapter to call a common system containing both customers and non customers and not want to call core system and mid office system adapters i.e. not implement/require chaining at all, then this is also possible.

For detail explanation of Chaining, how it works, chaining in case of overridden adapters and many more please refer **Chaining Section in Extensibility Document**.

Now below are the scenarios of how chaining will be used for Non Customer Onboarding in case of different possible implementations at Bank.

Considering, IPartyAdapter has three implementation

i1 - PartyAdapter(UBS), i2 - PartyAdapter(ASP) & i3 - PartyAdapter(TP)

Table 4-1 Non Customer Onboarding - Scenarios

Scenario	Implementation
Case 1	<p>Bank has both UBS core entity and ASP mid office as well (OBASP). In this case, the entry for UBS core entity in DIGX_FW_CONFIG_ALL_O will be like (Assuming OBDX_BU is the determinant value for UBS core entity) OBDX_BU UBS, ASP, TP</p> <div data-bbox="808 485 1463 669" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Note</p> <p>Here entry of TP might be for other mid offices system but not for UBS Core and OBSCF mid office as both are present with the bank according to the case.</p> </div> <p>Thus in case of chaining, it will first inquire in "i1 Adapter", if found then it will stop and return the result. If not found then it will inquire in "i2 Adapter", if found then it will stop and return the result. If not found then it will inquire in "i3 Adapter", where there are maximum chances that it won't be found because of above note. Thus finally after not able to find in "i3 Adapter", it will throw the error like it used to throw before chaining when not found in core system.</p>
Case 2	<p>Bank has UBS core entity but ASP mid office is Third Party. In this case, the entry for UBS core entity in DIGX_FW_CONFIG_ALL_O will be like (Assuming OBDX_BU is the determinant value for UBS core entity) OBDX_BU UBS, TP</p> <p>Thus in case of chaining, it will first inquire in "i1 Adapter", if found then it will stop and return the result. If not found then it will inquire in "i3 Adapter". Now in case of i3, it will push the request in JMS queue which will be read by one of the middleware implementations and sent to the actual Third party mid office of ASP. If found then the result will returned but if not then it will throw the error like it used to throw before chaining when not found in core system.</p> <p>** In this case, all the other functionalities of ASP mid office like Onboarding Associated Party will also be achieved by using Third Party implementation of ASP.</p>
Case 3	<p>Bank has Third party core entity and Third Party ASP mid office In this case, the entry for Third Party core entity in DIGX_FW_CONFIG_ALL_O will be like (Assuming OBDXB1 is the determinant value for Third Party core entity) OBDXB1 TP</p> <p>Thus, here there is no scenarios of chaining as always only "i3 Adapter" will be picked. Now in case of i3, it will push the request in JMS queue which will be read by one of the middleware implementations and sent to the actual single system (like common core). Now that single system can have the logic to check the party in core system & ASP system if required.</p> <p>** In this case, all the other functionalities of ASP mid office like Onboarding Associated Party will also be achieved by using Third Party implementation of ASP.</p>

Table 4-1 (Cont.) Non Customer Onboarding - Scenarios

Scenario	Implementation
Case 4	<p>Bank has Third Party core entity but ASP mid office is of OBASP</p> <p>In this case, the entry for Third Party core entity in DIGX_FW_CONFIG_ALL_O will be like (Assuming OBDXBU1 is the determinant value for Third Party core entity)</p> <p>OBDXBU1 TP, ASP</p> <p>Thus in case of chaining, it will first inquire in "i3 Adapter". Now in case of i3, it will push the request in JMS queue which will be read by one of the middleware implementations and sent to the actual Third party core system. If found then it will stop and return the result. If not found then it will inquire in "i2 Adapter". If found then the result will be returned but if not then then it will throw the error like it used to throw before chaining when not found in core system.</p> <p>** In this case, all the other functionalities of ASP mid office like Onboarding Associated Party should only be achieved by ASP host implementation (one that is qualified with OBASP). For that, we need to override the scripts of host adapter in DIGX_FW_CONFIG_ALL_O such that for ASP functionalities it will always pick the ASP adapter and for other common functionalities like Get Non Customer party, chaining will be applied as explained above.</p>

We need to execute below script to fetch mid office token required for Purchase Order File Upload.

```
INSERT INTO DIGX_FW_CONFIG_OUT_RS_CFG_B
(SERVICE_ID, CONTEXT_URL, SERVICE_URL, REQUEST_MEDIA_TYPE,
RESPONSE_MEDIA_TYPE, AUTHENTICATION, AUTH_TYPE, CREDENTIAL_STORE_TYPE,
CREDENTIAL_STORE_KEY, CREATION_DATE, LAST_UPDATED_DATE) VALUES
('tokenOBSCF144',
'http://${OBSCF_HOST_IP}:${OBSCF_HOST_PORT}', 'api-gateway/
platojwtauth', 'application/json',
'application/json', 'N', 'Bearer', 'credential_impl', 'OBSCF_14.4', sysdate,
sysdate);
```

4.2 OBRH Integration

This topic provides information on OBRH integration.

During Bank Implementation, assuming OBRH is installed and configured as part of OBSCF installation.

For OBDX and OBSCF integration using OBRH the following configurations need to be done.

1. Carry out all the steps mentioned in **OBRH Integration Configuration** section in this document. The service provider for product OBSCF (Oracle Banking Supply Chain Finance) end-points configured in OBRH is **OBSCF**.
2. After all the above steps are completed, user needs to execute some scripts for the host APIs that are to be consumed via OBRH. These are the scripts to pick the third party adapter implementation instead of the host specific implementations as well as to call the OBRH end-point for the configured interfaces. The scripts are available at the following location:

```
/Installables/Modules/OBSCF/DIGX_FW_CONFIG_ALL_O.sql
```

Note

'%ENTITY_ID%' should be replaced with the entity identifier (For Example if the entity during implementation is OBDX_BU then '%ENTITY_ID%' should be replaced by 'OBDX_BU').

3. The list of OBSCF APIs that are integrated with OBDX using OBRH is as follows:

Table 4-2 OBSCF APIs Integrated with OBRH

OBRH Consumer Service Name	Transaction Name	Description
SCF_FINANCE_CHARGE	View/Edit Invoice	Fetches the list of finance charges.
SCF_PURCHASE_ORDER_CREATE	Purchase Order Creation	This API is used to create purchase orders.
SCF_PURCHASE_ORDER_UPDATE	View Purchase Orders	This API is used to modify purchase order details.
SCF_PURCHASE_ORDER_ACCEPT	Accept/Reject Purchase Order	This API is used to accept purchase orders.
SCF_PURCHASE_ORDER_REJECT	Accept/Reject Purchase Order	This API is used to reject purchase orders.
SCF_PURCHASE_ORDER_CANCEL	View Purchase Orders	This API is used to cancel purchase orders.
SCF_PURCHASE_ORDER_LIST	View Purchase Orders	Fetches the list of purchase orders.
SCF_PURCHASE_ORDER_READ	View Purchase Orders	Fetches purchase order details.
SCF_LINKED_PO_LIST	View Finance Details	Fetches Purchase Orders linked to a finance.
SCF_PO_FINANCE_CREATE	Request Finance	This API is used to request finance on purchase order(s).
SCF_FINANCE_LIMITS_LIST	View Limits	Fetches the list of finance limits.
SCF_MAIN_LIST	View Limits	Fetches the list of supply chain finance maintenances for a key.
SCF_PROGRAM_LIST	View/Edit Program	Fetches the list of programs.
SCF_PROGRAM_READ	View/Edit Program	Fetches program details.
SCF_PROGRAMPRODUCT_LIST	Create Program	Fetches the list of Program products.
SCF_PROGRAMPRODUCT_READ	Create Program	Fetches program product details.
SCF_PROGRAM_CREATE	Create Program	Creates Program
SCF_PROGRAM_UPDATE	Edit Program	Edit program details
SCF_LINKED_FINANCE_LIST	View Invoice Details	Fetches finances linked to an invoice.
SCF_FINANCE_CREATE	Request Finance	This API is used to request finance on invoice(s).
SCF_FINANCE_REPAYMENT	Repay Finance	Initiates request to repay finance.

Table 4-2 (Cont.) OBSCF APIs Integrated with OBRH

OBRH Consumer Service Name	Transaction Name	Description
SCF_FINANCE_SETTLEMENT	View Finance Details	Fetches finance settlement details
SCF_FINANCE_READ	View Finance Details	Fetches finance details
SCF_FINANCE_LIST	View Finance	Fetches list of finances
SCF_LINKED_INVOICE_LIST	View Finance Details	Fetches invoices linked to a finance.
SCF_LINK_INVOICE_TO_PROGRAM	Link Invoice To Program	Links Invoice(s) to Program
SCF_DISCOUNT_OFFER_CREATE	Create Discount Offer	Creates Discount Offer
SCF_DISCOUNTOFFER_LIST	View Discount Offer	Fetches list of discount offers
SCF_DISCOUNT_OFFER_READ	View Discount Offer Details	Fetch discount offer details
SCF_LINKED_DISCOUNT_OFFERS	View Receivables/Payables Details	Fetches list of offers linked to an invoice
SCF_CHARGE_CALCULATION	Manage Receivables/Payables	Fetches applicable discount on an invoice

This completes the entire configuration needed for consuming OBSCF APIs in OBDX through OBRH.

- In addition to the above, below script needs to be executed for successful creation of Discount Offer.

```
insert into DIGX_FW_TAXONOMY_DATA_TYPE_MAP
(ID,TYPE,DATATYPEID,MINLENGTH,MAXLENGTH,MANDATORY,ERRORCODE,LENGTH_ERROCODE
,MANDATORY_ERRORCODE,
CREATION_DATE,CREATED_BY, LAST_UPDATED_DATE, LAST_UPDATED_BY, OBJECT_VERSION_N
UMBER)values

('com.ofss.digx.app.scf.dto.discountoffer.DiscountOfferRequestDTO.discountO
ffer.invoices.indicator',
'CLASS','FREETEXT',null,null,'N',null,null,null,sysdate,'ofssuser',sysdate,
'ofssuser',1);
```

5

Receivables or Payables Management

This topic provides the information about the configurations of receivables or payables management.

- [OBRH Integration](#)
This topic provides information on OBRH integration.
- [Verify System Configurations](#)
This topic provides information on **Verify System Configurations**.
- [Enumerations](#)
This topic provides information on **Enumerations**.
- [Adapter Properties](#)
This topic provides information on **Adapter Properties**.
- [OBCM to OBDX Error code mapping](#)
This topic provides information on OBCM to OBDX Error code mapping.

5.1 OBRH Integration

This topic provides information on OBRH integration.

During Bank Implementation, assuming OBRH is installed and configured as part of either OBCM or OBSCF installation.

For OBDX and mid Office OBCM or OBSCF integration using OBRH the following configurations need to be done.

1. Carry out all the steps mentioned in **OBRH Integration Configuration** section in this document. The service provider for mid-office product OBCM or OBSCF (Oracle Banking Cash Management or Oracle Banking Supply Chain Finance) end-points configured in OBRH is **ASP**, **INV**, and **SCFCM**.
2. After all the above steps are completed, user needs to execute some scripts for the host APIs that are to be consumed via OBRH. These are the scripts to pick the third party adapter implementation instead of the host specific implementations as well as to call the OBRH end-point for the configured interfaces. The scripts are available at the following location:

```
/Installables/db/OBSCFCM/version/DIGX_FW_CONFIG_ALL_0.sql
```

Note

'%ENTITY_ID%' should be replaced with the entity identifier (For Example if the entity during implementation is OBDX_BU then '%ENTITY_ID%' should be replaced by 'OBDX_BU').

3. The list of OBCM or OBSCF APIs that are integrated with OBDX using OBRH is as follows:
For more information on fields, refer to the field description table.

Table 5-1 OBCM or OBSCF APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name	Description
ASP_ASSOCIATEDPARTY_CREATE	Onboard Associated Party	This API is used to onboard an associated party.
ASP_ASSOCIATEDPARTY_LIST	View Associated Parties	Fetches the list of associated parties.
ASP_ASSOCIATEDPARTY_READ	View Associated Parties	Fetches associated party details.
ASP_ASSOCIATEDPARTY_UPDATE	Upload KYC document for Non-Customer	This API is used to update the document Id for a new associated party that is not a customer of a bank.
ASP_ASSOCIATEDPARTY_RELATIONSHIP	Fetch Buyer-Supplier Relationship details	This interface is used to fetch details of buyer-supplier relationship
INV_INVOICES_CREATE	Create Receivables/Payables	This API is used to create invoices.
INV_INVOICE_LIST	View/Edit Receivables/Payables	This API is used to fetch invoices
INV_INVOICE_READ	View/Edit Receivables/Payables	This API is used to fetch invoice details
INV_INVOICES_UPDATE_STATUS	Manage Receivables/Payables	This API allows a user to perform various operations on invoices like Edit, Cancel, Accept, Raise Dispute, Resolve Dispute etc
INV_INVOICES_DISPUTE_REASON	Manage Receivables/Payables	This API fetches list of dispute reasons required to raise dispute on an invoice.
INV_LIST_COMMODITIES	Create Receivables/Payables	This API fetches list of supplier based commodities.
INV_CREDIT_NOTE_CREATE	Create Credit Note	This API is used to create credit notes
INV_CREDIT_NOTE_LIST	View Credit Note	This API is used to fetch credit notes
INV_CREDIT_NOTE_READ	View Credit Note	This API is used to fetch credit note details
SCFCM_PARAMS_LIST	Onboard Associated Party	This API fetches application params.
SCFCM_PAYMENTS_LIST	View Payments	This API is used to fetch the list of payments.
SCFCM_PAYMENT_READ	View Payment Details	This API is used to fetch payment details.
SCFCM_MANUAL_RECONCILIATION	Manual Reconciliation	This API is used to manually reconcile cashflows/invoices with payments
SCFCM_LIST_RECONCILED_TRANSACTIONS	De-Reconciliation	This API is used to fetch the list of reconciled cashflows/invoices.
SCFCM_DERECONCILE	De-Reconciliation	This API is used to de-reconcile already reconciled cashflows/invoices.

Table 5-1 (Cont.) OBCM or OBSCF APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name	Description
SCFCM_RECONCILIATION_RULE_LIST	View/Edit Reconciliation Rules	Fetches list of reconciliation rules maintained for a party.
SCFCM_RECONCILIATION_RULE_CREATE	Create Reconciliation Rule	This API is used to create reconciliation/allocation rule for a party.
SCFCM_RECONCILIATION_RULE_UPDATE	Edit Reconciliation Rule	This API is used to modify reconciliation/allocation rule details for a party.
SCFCM_RECONCILIATION_RULE_READ	View Reconciliation Rule details	Fetches reconciliation rule details.
SCFCM_LIST_RECONCILIATION_CATEGORIES	View/Edit Reconciliation Rules	Fetches reconciliation categories
SCFCM_LIST_RECONCILIATION_ATTRIBUTES	View/Edit Reconciliation Rules	Fetches reconciliation attributes
SCFCM_LIST_ALLOCATED_TRANSACTIONS	View Payment Details	This API is used to fetch allocation details of a payment.
SCFCM_LIST_ALLOCATION_ACCOUNTS	Manual Allocation	This API is used to fetch virtual accounts which can be further allocated to payments.
SCFCM_MANUAL_ALLOCATION	Manual Allocation	This API is used to manually allocate payments to virtual account.
SCFCM_RECONCILIATION_RULE_DELETE	Delete Reconciliation Rule Description	This API is used to delete the reconciliation/allocation rule for a party.

This completes the entire configuration needed for consuming OBCM APIs in OBDX through OBRH.

5.2 Verify System Configurations

This topic provides information on **Verify System Configurations**.

The following script helps in listing the CM specific System Configurations:

```
SELECT dfrbcn.resource_value as "Property Name on System Configuration
Screen",
       dfrbcd.resource_value as "Property Description on System Configuration
Screen",
       substr(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')
+1), INSTR(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')+1), '.')+1)
       as "Property ID in the Database", dccab.prop_value as "Property Value
in the Database",
       dccaoprop_value as "Overridden Property Value in the Database" from
DIGX_CFG_CONFIG_ALL_B
       dccab left join DIGX_FW_RESOURCE_BUNDLE dfrbcn on dccab.prop_id =
dfrbcn.resource_name and
       dfrbcn.bundle_name = 'ConfigName' left join DIGX_FW_RESOURCE_BUNDLE
dfrbcd on dccab.prop_id =
```

```

        dfrbcd.resource_name and dfrbcd.bundle_name = 'ConfigDiscription' left
join
        DIGX_CFG_CONFIG_ALL_0 dccao on dccab.prop_id = dccao.prop_id and
dccao.determinant_value =
        '{{determinant_value}}' where dccab.sequence != '-1' and dccab.module =
'scfcml';

```

Ensure correct values are maintained against the above properties. This maintenance can be done from the “System Configuration” admin screen or directly in DB schema.

5.3 Enumerations

This topic provides information on **Enumerations**.

Following SCFCM related enumerations are used in OBDX. They are used to fetch the values on the OBDX UI.

```

SELECT c.Prop_id, c.prop_value
FROM digx_cfg_Config_all_b c
WHERE c.module = 'scfcml' AND c.Prop_id like '%Enum%'

```

5.4 Adapter Properties

This topic provides information on **Adapter Properties**.

This topic provides information on adapter properties. The mapping of all such values between OBDX and OBSCF can be found/maintained using the below script:

```

select * from DIGX_FW_CONFIG_ADAPTER_PROP_B where host_id like 'SCFCM%' and
transaction_type not in ('ALL');

```

```

SELECT r.resource_value, c.Prop_id, c.prop_value
FROM digx_cfg_Config_all_b c JOIN digx_fw_resource_bundle r ON
r.resource_name LIKE '%' || c.Prop_id || '%'
WHERE c.module = 'cmsscfcml' AND c.prop_id LIKE 'SCFCMAdapterImplConfig

```

5.5 OBCM to OBDX Error code mapping

This topic provides information on OBCM to OBDX Error code mapping.

OBSCF to OBDX error code mappings are present in the database table digx_cfg_Config_all_b where MODULE is cms based on the value derived from below query.

```

SELECT c.Prop_id, c.prop_value FROM digx_cfg_Config_all_b c WHERE c.module =
'cmsscfcml' AND c.Prop_id like '%ErrorMapConfig%'

```

We need to execute below script to fetch mid office token required for Cashflow/Payment File Upload.

6

Virtual Account Management

This topic provides the information about the configurations of virtual account management.

- [OBRH Integration](#)
This topic provides information on OBRH integration.
- [Verify System Configurations](#)
This topic provides information on verify system configurations.
- [Enumerations](#)
This topic provides information on enumerations.
- [Adapter Properties](#)
This topic provides information on adapter properties.
- [Cloud specific Configurations](#)
This topic provides information on cloud specific configurations.
- [OBVAM to OBDX Error code mapping](#)
This topic provides information on **OBVAM to OBDX Error code mapping**.

6.1 OBRH Integration

This topic provides information on OBRH integration.

During Bank Implementation, assuming OBRH is installed and configured as part of OBVAM installation.

For OBDX and OBVAM integration using OBRH the following configurations need to be done.

1. Carry out all the steps mentioned in **OBRH Integration Configuration** section in this document. The service provider for product processor OBVAM (Oracle Banking Virtual Account Management) end-points configured in OBRH is **OBVAM**

All the OBVAM APIs consumed from OBDX are via OBRH. List is as follows:-

For more information on fields, refer to the field description table.

Table 6-1 OBVAM APIs Integrated with OBDX

OBRH Consumer Service Name	Transaction Name
abortVirtualAccountClosure	Terminate Virtual Account Closure
closeRemittance	Close Remittance ID
closeVA	Close Virtual Account
closeVirtualAccountStructure	Close Virtual Account Structure
createCreditLineLinkage	Create Internal Credit Line Linkage
createGeneralRates	Add Generate Rates
createInternalCreditLine	Create Internal Credit Line
createInternalTransfer	Move Money

Table 6-1 (Cont.) OBVAM APIs Integrated with OBDX

OBRH Consumer Service Name	Transaction Name
createRemittance	Create Remittance ID
createSpecialRates	Add Special Rates
createVirtualAccount	Create Virtual Account
createVirtualAccountStructure	Create Virtual Account Structure
createVirtualEntity	Create Virtual Entity
createVirtualMultiCurrencyAccount	Create Virtual Multi Currency Account
deleteCreditLineLinkage	Delete Internal Credit Line Linkage
deleteInternalCreditLine	Delete Internal Credit Line
deleteVirtualEntity	Close Virtual Entity
deleteVirtualMultiCurrencyAccount	Close Virtual Multi Currency Account
downloadVASChildAccounts	Download Virtual Account Structure
editVirtualMultiCurrencyAccount	Edit Virtual Multi Currency Account
fetchBranchDateByBranchCode	Fetch Branch Date
fetchDefaultInterestRates	Fetch Default Rates/UDEs
fetchDistinctCurrencies	Fetch Distinct Currencies (Projection)
fetchEntityBankParameters	Fetch Entity Bank Parameters
fetchInterestHistory	Fetch Interest Rates History
fetchRateCodes	Fetch Rate Codes
fetchRates	Fetch Interest Rates (General/Special)
fetchRemittanceList	Fetch Remittance IDs
fetchVAMCountry	Fetch Countries (CMC)
fetchVAMCurrency	Fetch Currencies (CMC)
fetchVAMEnabledAccountsForParty	Fetch VAM Enabled Real Accounts
fetchVAStatement	Fetch Virtual Account Transactions
fetchVAforLinkage	Fetch Virtual Accounts for Credit Line Linkage
fetchVAwithBalance	Fetch Virtual Account with Balance and Structure
fetchValueDatedBalances	Fetch Value Dated Balances
fetchVamChargeDefinitionList	Fetch Charge Definitions
fetchVamChargeList	Fetch Charges
fetchVirtualAccountBalances	Fetch Virtual Account Balance
fetchVirtualAccountBranches	Fetch Virtual Account Branches
fetchVirtualAccountList	Fetch Virtual Accounts
fetchVirtualMultiCurrencyAccount	Fetch Virtual Multi Currency Accounts
fetchVirtualProduct	Fetch Virtual Account Products
getAccruedAmountForVirtualAccount	Fetch Interest Accrued Amount for Virtual Account
getChildAccountsForVirtualStructure	Fetch Child Accounts for Parent Account in Virtual Account Structure

Table 6-1 (Cont.) OBVAM APIs Integrated with OBDX

OBRH Consumer Service Name	Transaction Name
getIdentificationTypesForVirtualEntity	Fetch Identification Types for Virtual Entity
getLineAccountUtilization	Fetch Internal Credit Line Utilization for Virtual Account
getLineUtilization	Fetch Internal Credit Line Utilization
getRemitterCountForVI	Fetch Remittance ID count for Virtual Identifier
getUnmappedVirtualAccounts	Fetch Virtual Accounts eligible for adding in Structure
getVirtualAccountClosureStatusDetails	Fetch Virtual Account Closure Status details
getVirtualAccountStructuresByCustomer	Fetch Virtual Account Structures
listCreditLineLinkage	Fetch Internal Credit Line Linkages
listInternalCreditLine	Fetch Internal Credit Lines
listVirtualAccWithStructureCode	Fetch Virtual Accounts part of a Structure
listVirtualEntity	Fetch Virtual Entities
listVirtualIdentifier	Fetch Virtual Identifiers
modifyVirtualAccountStructure	Edit Virtual Account Structure
readInternalCreditLine	Fetch Internal Credit Line details
readVirtualAccount	Fetch Virtual Account details
readVirtualEntity	Fetch Virtual Entity details
readVirtualMultiCurrencyAccount	Fetch Virtual Multi Currency details
reopenRemittance	Reopen Remittance ID
reopeningClosedVirtualAccount	Reopen Virtual Account
retryVirtualAccountClosure	Retry Virtual Account Closure
transferVirtualAccount	Fetch Transfer Virtual Accounts for Closure
updateCreditLineLinkage	Edit Internal Credit Line Linkage
updateInternalCreditLine	Edit Internal Credit Line
updateRemittance	Edit Remittance ID
updateVirtualAccount	Edit Virtual Account
updateVirtualEntity	Edit Virtual Entity
vaForClosure	Fetch Virtual Accounts eligible for Closure
vaForClosureStatus	Fetch Virtual Accounts initiated for Closure along with Status
vamFetchAdhocCAMTReport	Fetch Adhoc CAMT Statement
vamFetchAdhocMTRReport	Fetch Adhoc MT Statement
vamFetchAdhocPDFReport	Fetch Adhoc PDF Statement
vamFetchPreGenReport	Fetch Pre-generated Statement
virtualAccountsforInternalTransfer	Fetch Virtual Accounts for Real Account
fetchVirtualAccountRestrictions	Fetch Virtual Account Restrictions
maintainVirtualAccountRestriction	Edit Virtual Account Restrictions

Table 6-1 (Cont.) OBVAM APIs Integrated with OBDX

OBRH Consumer Service Name	Transaction Name
fetchVAMCurrencyWiseBalance	Fetch currency wise consolidated balance of Virtual Accounts
listTopFiveVirtualAccountBalances	Fetch five Virtual Accounts with highest balance for given criteria
listVirtualIdentifierTransaction	Fetch list of Virtual Identifier Transactions
downloadVirtualIdentifierTransaction	Download Virtual Identifier Transactions
listInterEntityPositions	Fetch list of Inter Entity Positions
fetchInterEntityPositionAccountDetails	Fetch Account details for an Inter Entity Position
uploadFeedFile	To upload the bulk file via OBRH instead of direct call
syncFeedFileStatus	To sync the status of uploaded bulk file and its records via OBRH instead of direct call
fetchVirtualProductBalanceRestrictions	Fetch Balance restrictions based on Virtual Account Product

This completes the entire configuration needed for consuming OBVAM APIs in OBDX through OBRH.

6.2 Verify System Configurations

This topic provides information on verify system configurations.

The following script helps in listing VAM specific System Configurations:

```
SELECT dfrbcn.resource_value as "Property Name on System Configuration
Screen",
dfrbcd.resource_value as "Property Description on System Configuration
Screen",
substr(substr(dccab.prop_id, INSTR(dccab.prop_id, '.'))
+1), INSTR(substr(dccab.prop_id, INSTR(dccab.prop_id, '.'))+1), '.'+1) as
"Property ID in the Database",
dccab.prop_value as "Property Value in the Database",
dccaoprop_value as "Overridden Property Value in the Database"
from DIGX_CFG_CONFIG_ALL_B dccab
left join DIGX_FW_RESOURCE_BUNDLE dfrbcn
on dccab.prop_id = dfrbcn.resource_name and dfrbcn.bundle_name = 'ConfigName'
left join DIGX_FW_RESOURCE_BUNDLE dfrbcd
on dccab.prop_id = dfrbcd.resource_name and dfrbcd.bundle_name =
'ConfigDiscription'
left join DIGX_CFG_CONFIG_ALL_O dccaoprop
on dccab.prop_id = dccaoprop.prop_id and dccaoprop.determinant_value =
'{{{determinant_value}}}'
--Please enter correct determinant value
where dccab.sequence != '-1' and dccab.module = 'vam';
```

Ensure that the correct values are maintained against the above properties.

This maintenance can be done from the “System Configuration” admin screen or directly in DB schema.

6.3 Enumerations

This topic provides information on enumerations.

Following VAM related enumerations are used in OBDX. They are used to fetch the values on the OBDX UI.

1. `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getIdentificationTypes';`
2. `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getCorporateTypes';`
3. `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getVamChargeCollectionStatus';`
4. `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getGenderForVam';`

The mapping of these OBDX values to the corresponding OBVAM values can be found in the next section.

6.4 Adapter Properties

This topic provides information on adapter properties.

Certain fields (Eg: Enumerations, Status etc) can have different values in OBDX as compared to OBVAM.

The mapping of all such values between OBDX and OBVAM can be found/maintained using the below script:

1. `select * from DIGX_FW_CONFIG_ADAPTER_PROP_B where host_id = 'OBVAM';`

6.5 Cloud specific Configurations

This topic provides information on cloud specific configurations.

Following additional configurations are required if OBDX and OBVAM are being hosted on cloud:

1. In OBRH, enable Eureka instance for OBVAM service provider.

6.6 OBVAM to OBDX Error code mapping

This topic provides information on **OBVAM to OBDX Error code mapping**.

1. OBVAM to OBDX error code mappings are present in the database table `DIGX_FW_ERR_COD_MAP` where `MODULE_ID` is "VIRTUAL_ACCOUNT_MANAGEMENT"
2. Out of the box, the value in column `EXT_SYSTEM_ID` for all such rows would be **UBS14.5**.
3. The value in column `EXT_SYSTEM_ID` for all such rows will have to be modified during implementation, based on the value derived from below query

- a. `SELECT`
`CONCAT(prop_value,(select prop_value from digx_fw_config_var_b`
`where prop_id =`

```
'HOST_VERSION' and determinant_value = '$entity_name$'))  
EXT_SYSTEM_ID from  
  digx_fw_config_var_b where prop_id = 'HOST_NAME' and  
determinant_value = '$entity_name$'; --  
  replace $entity_name$ with correct determinant_value.
```

7

Cash Management System

This topic provides the information about the configurations of cash management system.

- [OBRH Integration](#)
This topic provides information on OBRH integration.
- [Verify System Configurations](#)
This topic provides information on verify system configurations.
- [Enumerations](#)
This topic provides information on enumerations.
- [Adapter Properties](#)
This topic provides information on adapter properties.
- [OBCM to OBDX Error code mapping](#)
This topic provides information on OBCM to OBDX Error code mapping.

7.1 OBRH Integration

This topic provides information on OBRH integration.

During Bank Implementation, assuming OBRH is installed and configured as part of OBCM installation.

For OBDX and mid Office OBCM integration using OBRH the following configurations need to be done.

1. Carry out all the steps mentioned in **OBRH Integration Configuration** section in this document. The service provider for mid-office product OBCM (Oracle Banking Cash Management) end-points configured in OBRH is **OBCM**.
2. After all the above steps are completed, user needs to execute some scripts for the host APIs that are to be consumed via OBRH. These are the scripts to pick the third party adapter implementation instead of the host specific implementations as well as to call the OBRH end-point for the configured interfaces. The scripts are available at the following location:

```
/Installables/db/OBCM/version/DIGX_FW_CONFIG_ALL_0.sql
```

Note

'%ENTITY_ID%' should be replaced with the entity identifier (For Example if the entity during implementation is OBDX_BU then '%ENTITY_ID%' should be replaced by 'OBDX_BU').

3. The list of OBCM APIs that are integrated with OBDX using OBRH is as follows:
For more information on fields, refer to the field description table.

Table 7-1 OBCM APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name	Description
CMS_CASHFLOW_TRANSACTION_READ	View/Edit Expected Cash Flow Details	Fetches Cashflow Details
CMS_CASHFLOW_TRANSACTION_UPDATE	View/Edit Expected Cash Flow Details	This API is used to modify expected cashflow details.
CMS_CASHFLOW_FETCH	Cashflow Forecasting	This API is used to fetch cashflow forecasting data.
CMS_CCM_LIST	Cash Deposits	This API is used to fetch collection maintenance details of a cash management.
CMS_DIVISION_CODE_LIST	Cash & Cheque Deposits	This API is used to fetch division code details of a given party.
CMS_CASH_DEPOSITS_CREATE	Cash Deposits	This API is used to create multiple cash deposits for a party.
CMS_CASH_DEPOSITS_LIST	View Cash Deposits	This API is used to fetch cash collections.
CMS_CASH_DEPOSIT_READ	View Cash Deposit Details	This API is used to fetch cash collection details.
CMS_CHEQUE_LIST	View Cheque Deposits	This API is used to fetch cheque collections.
CMS_CHEQUE_READ	View Cheque Deposit Details	This API is used to fetch cheque collection details.
CMS_BRANCH_DENOMINATION_LIST	Cash Deposits	This API is used to fetch denomination details for a particular branch.
CMS_BRANCH_CODE_LIST	Cash & Cheque Deposits	This API is used to fetch all the branch.
CMS_CASH_DEPOSIT_VALIDATE	Cash Deposits	This API is used to validate cash/cheque number uniqueness.
CMS_CMM_LIST	Cash Deposits	This API is used to fetch maintenance details of a cash management.
CMS_CASH_WITHDRAWAL_LIST	View Cash withdrawal	This API is used to fetch cash withdrawal collections.
CMS_CASH_WITHDRAWAL_READ	View Cash withdrawal details	This API is used to fetch cash withdrawal collection details.
CMS_CASH_WITHDRAWAL_CREATE	Create Cash withdrawal	This API is used to create cash withdrawal for a party.
CMS_CHEQUE_DEPOSITS_CREATE	Cheque Deposits	This API is used to create multiple cheque deposits for a party.
CMS_CASHFLOW_CODE_LIST	Cashflow Forecasting	This API is used to fetch cash flow code details.
CMS_ROUTING_LIST	Cheque Deposits	This API is used to fetch routing details.

Table 7-1 (Cont.) OBCM APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name	Description
CMS_COLLECTION_LIST	Overview Collection summary	This API is use to fetch collection summary details for cash/cheque & cash withdraw.
CMS_PDM_LIST	Pick up & delivery	This API is use to fetch pickup and delivery details.
CMS_FETCH_ACCOUNT_DETAILS	Fetch Account Details	This API is used to fetch account details
CMS_FETCH_ACCOUNT_NUMBER	Fetch list of account number	This API is used to fetch account numbers
CMS_FETCH_BALANCE_BY_GROUP	Fetch Balance by group	This API is used to fetch balance group by, and group can either entity or currency or location
CMS_FETCH_BALANCE_BY_IDENTITY	Fetch Balance Details	This API is used to fetches balance by identity based on selected group
CMS_FETCH_MAINTENANCE	Fetch Cash Visibility Management	This API is used to retrieve maintenance details for a cash visibility.
CMS_COLLECTION_DELETE	Cancel collection	This API is used to delete or cancel collection initiated by OBDX user and has in request state
CMS_BULK_UPLOAD	Cash flow file upload	This API is used to upload bulk cash flow files.
CMS_CASHFLOW_FETCH	Cashflow Forecasting	This API is used to retrieve cash flow forecasting data.
CMS_NETTING_ELIGIBILITY_LIST	Netting Eligibility List	This Api is used to list eligible netting transaction
CMS_NETTING_ELIGIBILITY_READ	Netting Eligibility read	This api is used to fetch netting eligibility transaction details
CMS_NETTING_STRUCTURE_LIST	Netting Structure list	This api is used to list netting structure.
CMS_NETTING_STRUCTURE_STATUS	Netting Structure status	This api is used to view netting structure status
CMS_NETTING_STRUCTURE_UPDATE	Netting Structure update	This api is used to update netting structure
CMS_NETTING_STRUCTURE_VIEW	Netting Structure view	This api is used to view netting structure details.
CMS_PAYOUT_NETTING_TRANSACTION	Netting payout transaction	This api is used to payout netting transaction
CMS_MANAGE_NETTING_TRANSACTION	Netting accept/reject transaction	This api used to accept or reject netting transaction
CMS_PDM_READ	Peek up and delivery	This api is used to get peek up and delivery details.

This completes the entire configuration needed for consuming OBCM APIs in OBDX through OBRH.

7.2 Verify System Configurations

This topic provides information on verify system configurations.

The following script helps in listing the CM specific System Configurations:

```
SELECT dfrbcn.resource_value as "Property Name on System Configuration
Screen",
dfrbcd.resource_value as "Property Description on System Configuration
Screen",
dccab.module, substr(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')
+1), INSTR(substr(dccab.prop
_id, INSTR(dccab.prop_id, '.')+1), '.')+1) as "Property ID in the
Database", dccab.prop_value as
"Property Value in the Database", dccao.prop_value as "Overriden Property
Value in the
Database" from obdx_trunk_25ga.DIGX_CFG_CONFIG_ALL_B dccab left join
obdx_trunk_25ga.DIGX_FW_RESOURCE_BUNDLE dfrbcn on dccab.prop_id =
dfrbcn.resource_name and dfrbcn.bundle_name = 'ConfigName' left join
obdx_trunk_25ga.DIGX_FW_RESOURCE_BUNDLE dfrbcd on dccab.prop_id =
dfrbcd.resource_name and dfrbcd.bundle_name = 'ConfigDiscription' left join
obdx_trunk_25ga.DIGX_CFG_CONFIG_ALL_O dccao on dccab.prop_id =
dccao.prop_id and dccao.determinant_value = 'OBDX_BU' where dccab.sequence is
null and dccab.module = 'cms';
```

Ensure correct values are maintained against the above properties. This maintenance can be done from the "System Configuration" admin screen or directly in DB schema.

7.3 Enumerations

This topic provides information on enumerations.

Following CM related enumerations are used in OBDX. They are used to fetch the values on the OBDX UI.

```
SELECT c.Prop_id, c.prop_value
FROM digx_cfg_Config_all_b c
WHERE c.module = 'cms' AND c.Prop_id like '%Enum%'
```

7.4 Adapter Properties

This topic provides information on adapter properties.

The mapping of all such values between OBDX and OBCM can be found/maintained using the below script:

```
select * from DIGX_FW_CONFIG_ADAPTER_PROP_B where host_id like 'CMS%' and
transaction_type
not in ('ALL');
SELECT r.resource_value, c.Prop_id, c.prop_value
FROM digx_cfg_Config_all_b c JOIN digx_fw_resource_bundle r ON
```

```
r.resource_name LIKE '%' || c.Prop_id || '%'
WHERE c.module = 'cms' AND c.prop_id LIKE 'CashManagementAdapterImplConfig%';
```

7.5 OBCM to OBDX Error code mapping

This topic provides information on OBCM to OBDX Error code mapping.

1. OBCFPM to OBDX and ELCM to OBDX error code mappings are present in the database table DIGX_FW_ERR_COD_MAP where MODULE_ID is “CASH_MANAGEMENT”.
2. Out of the box, the value in column EXT_SYSTEM_ID for all such rows would be UBS14.5.
3. The value in column EXT_SYSTEM_ID for all such rows will have to be modified during implementation, based on the value derived from below query:

```
SELECT CONCAT(prop_value,(select prop_value from digx_fw_config_var_b
where prop_id =
      'HOST_VERSION' and determinant_value = '$entity_name$'))
EXT_SYSTEM_ID from
      digx_fw_config_var_b where prop_id = 'HOST_NAME' and
determinant_value = '$entity_name$'; --
      replace $entity_name$ with correct determinant_value.
```

4. OBCM to OBDX error code mappings are present in the database table digx_cfg_Config_all_b where MODULE is cms based on the value derived from below query.

```
SELECT c.Prop_id, c.prop_value FROM digx_cfg_Config_all_b c WHERE
c.module = 'cms' AND
c.Prop_id like '%ErrorMapConfig%'
```

8

Credit Facility Management

This topic provides the information about the configurations of credit facility management.

- [OBRH Integration](#)
This topic provides information on OBRH Integration.
- [Verify System Configurations](#)
This topic provides information on verify system configurations.
- [OBCFPM / ELCM to OBDX Error code mapping](#)
This topic provides information on OBCFPM / ELCM to OBDX Error code mapping.

8.1 OBRH Integration

This topic provides information on OBRH Integration.

During Bank Implementation, assuming OBRH is installed and configured as part of OBCFPM installation.

For OBDX and mid Office OBCFPM integration and OBDX and back Office OBELCM integration using OBRH, the following configurations need to be done.

1. Carry out all the steps mentioned in **OBRH Integration Configuration** section in this document. The service provider for mid-office product OBCFPM (Oracle Credit facility Management) end-points configured in OBRH is OBCFPM and the service provider for back-office product OBELCM (Oracle Banking Enterprise Limits and Collateral Management) end-points configured in OBRH is ELCM.
2. The list of OBCFPM and ELCM APIs that are integrated with OBDX using OBRH is as follows:

For more information on fields, refer to the field description table.

Table 8-1 OBCFPM and ELCM APIs that are integrated with OBDX

Interface ID	Transaction Name	Description
CF_LIABILITY_READ	Credit Facility Overview	This API is used to fetch the liability details of particular liability.
CF_LIABILITY_LIST	Credit Facility Overview	This API is used to fetch the liability details.
CF_COLLATERALGROUP_READ	Collateral Summary	This API is used to fetch the collateral group details of particular collateral.
CF_COLLATERALGROUP_LIST	Collateral Summary	This API is used to fetch the collateral group details.
CF_COLLATERAL_LIST	Collateral Summary	This API is used to fetch the collateral details.
CF_COLLATERAL_READ_MULTIPLE	Collateral Summary	This API is used to fetch the collateral details of particular collateral.

Table 8-1 (Cont.) OBCFPM and ELCM APIs that are integrated with OBDX

Interface ID	Transaction Name	Description
CF_FACILITY_LIST	Facility Summary	This API is used to fetch the facility details
CF_FACILITY_CATAGORY_TYPE_SERVICE	Facility Summary	This API is used to fetch the facility category of particular facility.
CF_FACILITY_UTILIZATION	Facility Details	This API is used to fetch the facility history details
CF_COLLATERALTYPES_LIST	Collateral Evaluation	This API is used to fetch the collateral types.
CF_FACILITYCATEGORY_LIST	Amend Facilities	This API is used to fetch the list of facility categories.
CONTENT_LIST_CREDIT_FACILITY	Application Tracker	This API is used to fetch the list of documents attached in a Facility or Collateral Application
CONTENT_READ_CREDIT_FACILITY	Application Tracker	This API is used to fetch the document content for view or download
CONTENT_CREATE_CREDIT_FACILITY	Amend Facilities	This API is used to upload a document in Facility or Collateral application
CF_DOCUMENT_READ	Amend Facilities	This API is used to fetch the list of documents to be uploaded in a Facility or Collateral application.
CF_FETCH_APPLICATION_STATUS	Application Tracker	This API is used to fetch the document.
CF_FACILITY_UPDATE	Amend Facilities	This API is used to create and update facility.
CF_COLLATERAL_OFFER	Application Tracker	This API is used to accept or reject applications.
CF_EVALUATE_COLLATERAL	Collateral Evaluation	This API is used to evaluate collateral.
CF_REEVALUATE_COLLATERAL	Collateral Revaluation	This API is used to reevaluate collateral.
CF_PARTYDETAIL_LIST	Amend Facilities	This API is used to retrieve OBCFPM party details corresponding to an OBDX customer
CF_FACILITYDETAIL_LIST	Amend Facilities	This API is used to get the list of facilities for a OBDX customer from OBCFPM
CF_COLLATERAL_CATEGORY_LIST	Collateral Evaluation	This API is used to get the list of Collateral Categories for a Collateral type
CF_FACILITY_READ	Facility Details	This API is used to fetch the details of a facility

8.2 Verify System Configurations

This topic provides information on verify system configurations.

Following script helps in listing the Credit facility management specific System Configurations:

```
SELECT
    dfrbcn.resource_value as "Property Name on System Configuration
Screen",
    dfrbcd.resource_value as "Property Description on System
Configuration Screen",
    substr(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')
+1), INSTR(substr(dccab.prop_id, INSTR(dccab.prop_id, '.')+1), '.')+1)
    as "Property ID in the Database", dccab.prop_value as "Property Value
in the Database",
    dccao.prop_value as "Overriden Property Value in the Database" from
DIGX_CFG_CONFIG_ALL_B
    dccab left join DIGX_FW_RESOURCE_BUNDLE dfrbcn on dccab.prop_id =
dfrbcn.resource_name and
    dfrbcn.bundle_name = 'ConfigName' left join DIGX_FW_RESOURCE_BUNDLE
dfrbcd on dccab.prop_id
    = dfrbcd.resource_name and dfrbcd.bundle_name = 'ConfigDiscription'
left join
    DIGX_CFG_CONFIG_ALL_O dccao on dccab.prop_id = dccao.prop_id and
dccao.determinant_value =
    '{{determinant_value}}' --Please enter correct determinant value
where dccab.sequence !=
    '-1' and dccab.module = 'creditfacility';
```

Ensure that the correct values are maintained against the above properties.

This maintenance can be done from the “System Configuration” admin screen or directly in DB schema.

8.3 OBCFPM / ELCM to OBDX Error code mapping

This topic provides information on OBCFPM / ELCM to OBDX Error code mapping.

OBCFPM to OBDX and ELCM to OBDX error code mappings are present in the database table DIGX_FW_ERR_COD_MAP where MODULE_ID is “CREDIT_FACILITY”.

Out of the box, the value in column EXT_SYSTEM_ID for all such rows would be UBS14.5.

The value in column EXT_SYSTEM_ID for all such rows will have to be modified during implementation, based on the value derived from below query:

```
SELECT CONCAT(prop_value, (select prop_value from digx_fw_config_var_b where
prop_id =
    'HOST_VERSION' and determinant_value = '$entity_name$'))
EXT_SYSTEM_ID from
    digx_fw_config_var_b where prop_id = 'HOST_NAME' and
determinant_value = '$entity_name$'; --
    replace $entity_name$ with correct determinant_value.
```

9

Liquidity Management

This topic provides the information about the configurations of liquidity management.

- [OBRH Integration](#)
This topic provides information on OBRH configurations.
- [Verify System Configurations](#)
This topic provides information on **Verify System Configurations**.
- [Enumerations](#)
This topic provides information on **Enumerations**.
- [Adapter Properties](#)
This topic provides information on **Adapter Properties**.
- [Simulation IC Group maintenance](#)
This topic provides information on **Simulation IC Group maintenance**.
- [Cloud Specific Configurations](#)
This topic provides information on **Cloud Specific Configurations**.
- [Host Notifications](#)
This topic provides information on **Host Notifications**.
- [OBLM to OBDX Error code mapping](#)
This topic provides information on **OBLM to OBDX Error code mapping**.

9.1 OBRH Integration

This topic provides information on OBRH configurations.

During Bank Implementation, assuming OBRH is installed and configured as part of OBLM installation.

For OBDX and OBLM integration using OBRH the following configurations need to be done.

1. Carry out all the steps mentioned in **OBRH Integration Configuration** section in this document. The service provider for product processor OBLM (Oracle Banking Liquidity Management) end-points configured in OBRH is **OBLM** (this step is not required to be repeated after each patch-set).

2. The list of OBLM APIs that are integrated with OBDX using OBRH is as follows:

For more information on fields, refer to the field description table.

Table 9-1 OBLM APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name
createLMStructure	Create Structure
editLMStructure	Edit Structure
executeLMPoolStructure	Execute Pool Structure

Table 9-1 (Cont.) OBLM APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name
executeLMSweepStructure	Execute Sweep Structure
fetchLMAccounts	Fetch Liquidity enabled Accounts for Primary as well as Linked Customers
fetchLMAccountsByPartyId	Fetch Liquidity enabled Accounts for Customer
fetchLMAccountsWithStructure	Fetch Accounts participating in multiple Structures
fetchLMAccountsWithlinkedStructure	Fetch Structure details for list of Accounts
fetchLMBranches	Fetch Branches
fetchLMChargeDefinitionList	Fetch Charge Definitions
fetchLMChargeList	Fetch Charges
fetchLMCurrency	Fetch Currencies
fetchLMFrequencies	Fetch Frequencies
fetchLMInstruction	Fetch Instructions
fetchPoolLogs	Fetch Pool Logs
fetchSweepLogs	Fetch Sweep Logs
fetchUpcomingSweepLogs	Fetch Upcoming Sweep Logs
listStructurePriorities	Fetch Structure Priorities
partyHierarchyList	Fetch Linked Customers Hierarchy
readLMStructure	View Structure details
validateLMStructure	Validate Structure
fetchLMStructures	Fetch Structures
fetchLMSimulationAccounts	Fetch Accounts eligible for Simulation
fetchLMSimulation	Fetch Simulation Structures
readLMSimulation	View Simulation Structure details
createLMSimulation	Create Simulation Structure
downloadLMSimulationPDFReport	Download Simulation Advice Report
editLMSimulation	Edit Simulation Structure
createlendlimit	Create Lend Limit
readLMLendLimit	View Lend Limit details
editLendLimit	Edit Lend Limit
closeLendLimit	Close Lend Limit
getLMGroupCustomerID	Fetch Root customer in customer hierarchy
listLMInterCompanyLoans	Fetch Intercompany Loans
readLMInterCompanyLoan	View Intercompany Loan details
fetchICLTransactions	Fetch Intercompany Loan transactions
initiateICLSettlement	Initiate Intercompany Loan settlement
listIntercompanyLoanSummary	Fetch Intercompany Loans summary
getChildAccountsForLMStructure	Fetch immediate child accounts for a selected account in Structure in staggered manner
readLMStructurePdfDownload	Download Structure details

Table 9-1 (Cont.) OBLM APIs integrated with OBDX

OBRH Consumer Service Name	Transaction Name
fetchReallocationMonitorLogs	Fetch Reallocation Logs
executeSweepAccountPairs	Adhoc execution of sweep account pairs
fetchDrainPoolParticipantAccounts	Fetch Accounts participating in Drain Pools

This completes the entire configuration needed for consuming OBLM APIs in OBDX through OBRH.

9.2 Verify System Configurations

This topic provides information on **Verify System Configurations**.

Following script helps in listing the LM specific System Configurations:-

```
SELECT dfrbcn.resource_value as "Property Name on System Configuration Screen",
dfrbcd.resource_value as "Property Description on System Configuration Screen",
substr(substr(dccab.prop_id, INSTR(dccab.prop_id, '.'))
+1), INSTR(substr(dccab.prop_id, INSTR(dccab.prop_id, '.'))
+1), '.' )+1) as "Property ID in the Database",
dccab.prop_value as "Property Value in the Database",
dccaoprop_value as "Overridden Property Value in the Database" from
DIGX_CFG_CONFIG_ALL_B dccab left join DIGX_FW_RESOURCE_BUNDLE dfrbcn on
dccab.prop_id = dfrbcn.resource_name and dfrbcn.bundle_name = 'ConfigName' left
join DIGX_FW_RESOURCE_BUNDLE dfrbcd on dccab.prop_id = dfrbcd.resource_name and
dfrbcd.bundle_name = 'ConfigDiscription' left join DIGX_CFG_CONFIG_ALL_O dccaoprop on
dccab.prop_id = dccaoprop.prop_id and dccaoprop.determinant_value =
'{{determinant_value}}' --Please enter correct determinant value where
dccab.sequence != '-1' and dccab.module = 'liquiditymanagement';
```

Ensure correct values are maintained against the above properties.

This maintenance can be done from the “System Configuration” admin screen or directly in DB schema.

9.3 Enumerations

This topic provides information on **Enumerations**.

Following LM related enumerations are used in OBDX. They are used to fetch the values on the OBDX UI.

- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMSweepStatus';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMStructureTypes';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMCurrencyHolidayRates';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMHolidayTreatment';`

- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMBackwardTreatment';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMInterestMethod';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMRellocationMethod';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMStructureStatus';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMStructureHostApprovalStatus';`
- `select * from DIGX_FW_ENUM_REPRESENTATIONS where enum_fqn='getLMChargeCollectionStatus';`

9.4 Adapter Properties

This topic provides information on **Adapter Properties**.

Certain fields (Eg: Enumerations, Status etc) can have different values in OBDX as compared to OBLM.

The mapping of all such values between OBDX and OBLM can be found/maintained using the below script:-

```
select * from DIGX_FW_CONFIG_ADAPTER_PROP_B where host_id = 'OBLM' and
transaction_type not in ('ALL');
```

9.5 Simulation IC Group maintenance

This topic provides information on **Simulation IC Group maintenance**.

While creating Simulation from OBDX, we need to send IC Group values to OBLM as per the below matrix:

For more information on fields, refer to the field description table.

Table 9-2 Table 1

Structure Type	Interest Method	Scenario	PROP_ID
Sweep	Interest	All Participating accounts	SIM_SWEEP_INTEREST_ACCOUNT
Hybrid	Interest	Notional Header	SIM_HYBRID_INTEREST_NOTIONAL
Pool	Interest	Notional Header	SIM_POOL_INTEREST_NOTIONAL
	Advance	Notional Header	SIM_POOL_ADVANCE_NOTIONAL
		All Participating Accounts (Except Notional)	SIM_POOL_ADVANCE_ACCOUNT

Table 9-2 (Cont.) Table 1

Structure Type	Interest Method	Scenario	PROP_ID
	Ratio	All Participating Accounts (Except Notional)	SIM_POOL_RATIO_ACCOUNT

The values of these IC Groups can be different in each environment based on the IC Groups created in the respective OBLM system.

Certain properties have been created in OBDX, from where the values of these IC Groups shall be dynamically picked and sent to OBLM during Simulation creation from OBDX.

Below are the sample scripts to update those property values:-

```
UPDATE DIGX_FW_CONFIG_ADAPTER_PROP_B SET
PROP_VALUE='<SIM_SWEEP_INTEREST_ACCOUNT>'WHERE HOST_ID='OBLM'AND
TRANSACTION_TYPE='INTEREST_CALCULATION_GROUP'AND
PROP_ID='SIM_SWEEP_INTEREST_ACCOUNT';
```

```
UPDATE DIGX_FW_CONFIG_ADAPTER_PROP_B SET
PROP_VALUE='<SIM_HYBRID_INTEREST_NOTIONAL>'WHERE HOST_ID='OBLM'AND
TRANSACTION_TYPE='INTEREST_CALCULATION_GROUP'AND
PROP_ID='SIM_HYBRID_INTEREST_NOTIONAL';
```

```
UPDATE DIGX_FW_CONFIG_ADAPTER_PROP_B SET
PROP_VALUE='<SIM_POOL_INTEREST_NOTIONAL>'WHERE HOST_ID='OBLM'AND
TRANSACTION_TYPE='INTEREST_CALCULATION_GROUP'AND
PROP_ID='SIM_POOL_INTEREST_NOTIONAL';
```

```
UPDATE DIGX_FW_CONFIG_ADAPTER_PROP_B SET
PROP_VALUE='<SIM_POOL_ADVANCE_NOTIONAL>'WHERE HOST_ID='OBLM'AND
TRANSACTION_TYPE='INTEREST_CALCULATION_GROUP'AND
PROP_ID='SIM_POOL_ADVANCE_NOTIONAL';
```

```
UPDATE DIGX_FW_CONFIG_ADAPTER_PROP_B SET
PROP_VALUE='<SIM_POOL_ADVANCE_ACCOUNT>'WHERE HOST_ID='OBLM'AND
TRANSACTION_TYPE='INTEREST_CALCULATION_GROUP'AND
PROP_ID='SIM_POOL_ADVANCE_ACCOUNT';
```

```
UPDATE DIGX_FW_CONFIG_ADAPTER_PROP_B SET
PROP_VALUE='<SIM_POOL_RATIO_ACCOUNT>'WHERE HOST_ID='OBLM'AND
TRANSACTION_TYPE='INTEREST_CALCULATION_GROUP'AND
PROP_ID='SIM_POOL_RATIO_ACCOUNT';
```

9.6 Cloud Specific Configurations

This topic provides information on **Cloud Specific Configurations**.

Following additional configurations are required if OBDX and OBLM are being hosted on cloud:

1. In OBRH, enable Eureka instance for OBLM service provider.

9.7 Host Notifications

This topic provides information on **Host Notifications**.

In order to listen to any Host events and trigger subsequent alerts in OBDX for the same, please follow the below steps as part of extensibility:

Out-of-Box Notification Alert Support:

Update the output of the following script:

```
SELECT * FROM DIGX_CFG_CONFIG_ALL_B WHERE prop_id LIKE '%KAFKA_CONFIG%structure-
createdAndAuthorized%';
```

New Notification Alert Support:

1. Get the Avro schema format for the notification to be consumed from the host. Ensure that the deserialized objects based on the Avro are present in the class-path.
2. Create a new consumer class that implements the **IKafkaConsumable** interface. Consumers implementing this interface will always consume messages from Kafka topics.

Override Methods:

- **topicName()**: Override this method to specify the name of the topic the consumer should listen to. Returns String.
Example: structure-createdAndAuthorized
 - **consumerGroup()**: Override this method to specify the consumer group name. Returns String.
 - **enableSeparateConsumerGroupsPerServer()**:
 - a. When true, each instance of the consumer on each server creates its own consumer group.
 - b. When false, all instances of this consumer across all servers share the same consumer group. Default is false.
 - **run()**: Responsible for initiating the message consumption process. Within this method, the consume method is called with an instance of **IMessageProcessor** (created as part of point 4) to handle the processing of each consumed message.
 - **OOTB Reference:**
com.ofss.digx.kafka.liquiditymanagement.consumer.structure.StructureMessageConsumer
3. Create a file named com.ofss.digx.infra.events.kafka.consumer.**IConsumer** in resources/META-INF/services and provide the entry for the consumer class.
 4. Create a new class implementing com.ofss.digx.infra.events.processor.**IMessageProcessor** for writing business logic. This class will be used from the consumer and listener classes and should be included in the service jar of the module.

Override Methods:

- **process(K key, V data)**: Processes messages from the consumer. The out-of-box host alert service (Eg: com.ofss.digx.app.liquiditymanagement.service.hostalerts.HostAlertService) should be invoked from this method.
key: The key object associated with the message.
data: The data to be processed

OOTB Reference:

com.ofss.digx.app.liquiditymanagement.processor.structure.StructureMessageProcess
or

5. Kafka consumer configurations can be maintained in `DIGX_CFG_CONFIG_ALL_B` with `prop_id` starting with `KAFKA_CONFIG`. For configurations specific to a topic, `prop_id` can be specified as `TOPIC_NAME@CONFIGURATION`.

Example: `KAFKA_CONFIG.structure-createdAndAuthorized@bootstrap.servers`

6. Configure a subscription based OBDX alert specific for the new notification configured. Post maintaining subscription for the new OBDX alert, subscribed users will receive OBDX alerts specific to the notification.

9.8 OBLM to OBDX Error code mapping

This topic provides information on **OBLM to OBDX Error code mapping**.

1. OBLM to OBDX error code mappings are present in the database table `DIGX_FW_ERR_COD_MAP` where `MODULE_ID` is "LIQUIDITY_MANAGEMENT"
2. Out of the box, the value in column `EXT_SYSTEM_ID` for all such rows would be **UBS14.5**.
3. The value in column `EXT_SYSTEM_ID` for all such rows will have to be modified during implementation, based on the value derived from below query:

a.

```
SELECT
    CONCAT(prop_value,(select prop_value from digx_fw_config_var_b
where prop_id =
    'HOST_VERSION' and determinant_value = '$entity_name$'))
EXT_SYSTEM_ID from
    digx_fw_config_var_b where prop_id = 'HOST_NAME' and
determinant_value = '$entity_name$'; --
    replace $entity_name$ with correct determinant_value.
```

10

OBRH Integration Configuration

This topic provides information on OBRH integration configuration.

To consume Mid-Office APIs in OBDX using OBRH, following configurations need to be completed:

1. To integrate OBRH with OBDX, first some generic configurations and scripts needs to be executed. The Details for the same can be referred from section [Configurations for OBRH Integration](#) from **Oracle Banking Digital Experience Host Integration Guide**

Note

Please skip adding entries to call OBRH end-point from adapters for already provided out of the box integrations from OBDX.

2. For Consuming Mid-Office Product services via OBRH, where OBDX will act as a consumer for OBRH, OBDX Consumer configurations required by OBRH needs to be imported in OBRH. The File to be imported would be present at the following location:

```
/installables/obrh/OBDX_Consumer.json
```

Refer section **Import Service Consumer** from **OBRH** user manual for how to import a consumer JSON in OBRH

3. Once the import is done successfully, you need to update each of the mid-office service provider's default implementation as well as other implementations for IP, Port, Token Username and Token Password. Refer section **Add/Edit Implementation** from **OBRH** user manual for achieving the same.

Note

* When using OBRH there is no specific host implementation adapters. We use the third party adapter implementation for all services. The request and response specifications sent and received from OBRH for an end-point can be referred from the following: **externalinterface-api.zip**

* Any other assistance required regarding OBRH, you could refer the **OBRH** user manual.

* Also if anymore custom fields need to be sent to host or more fields are need to be configured in response; the following changes needs to be done

a. Fields needs to be added in OBDX Request and Response

b. Transformations needs to be changed in OBRH. Refer section **Request and Response Transformation** from **OBRH** user manual.

Index

A

Adapter Properties, [4](#), [4](#), [4](#)

C

Cloud Specific Configurations, [5](#)

E

Enumerations, [4](#), [4](#), [3](#)

O

OBCFPM / ELCM to OBDX Error code mapping,
[3](#)

OBCM to OBDX Error code mapping, [4](#), [5](#)

OBLM to OBDX Error code mapping, [7](#)

OBRH Integration, [1](#), [1](#)

OBRH Integration Configuration, [1](#)

OBVAM to OBDX Error code mapping, [5](#)

S

Simulation IC Group maintenance, [4](#)

V

Verify System Configurations, [3](#), [4](#), [2](#), [3](#)