

Oracle® Banking Liquidity Management Integration Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Purpose

This guide describes the information on integration service recommendations for Oracle Banking Liquidity Management.

Audience

The guide is intended for IT department or administrators deploying Oracle Banking Liquidity Management and third party or vendor software. Some information is relevant to IT decision makers and users of the application are also included.



Note:

Readers are expected to have basic operating system, network, and system administration skills with awareness of vendor/third-party software and knowledge of Oracle Banking Liquidity Management application.

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Critical Patches

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

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

- *Oracle Banking Security Management System User Guide*
- *Oracle Banking Common Core User Guide*
- *Routing Hub Configuration User Guide*
- *Getting Started User Guide*
- *Oracle Banking Liquidity Management Configuration Guide*

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.

1

Steps to configure Service Providers for Oracle Banking Liquidity Management

This topic describes the systematic instructions to configure the service providers for Oracle Banking Liquidity Management.

The user should maintain the below functional activities to configure the service providers for Oracle Banking Liquidity Management.

- [Initial Setup](#)
This topic describes the Initial Setup Process to perform Configuration for Oracle Banking Liquidity Management Service Providers.
- [Service Providers](#)
This topic provides the information about the Service Providers.
- [Consumer Services](#)
This topic provides the information about the Consumer Services.
- [Configure Service Providers](#)
This topic describes the configure the service providers for Oracle Banking Liquidity Management.
- [Configuring Consumer Services](#)
This topic describes the configure the Consumer Services for Oracle Banking Liquidity Management.

1.1 Initial Setup

This topic describes the Initial Setup Process to perform Configuration for Oracle Banking Liquidity Management Service Providers.

Follow the below steps to configure Oracle Banking Routing Hub:

1. Download the [OBLM Consumer.json](#) configuration file in case it is not done during installation setup

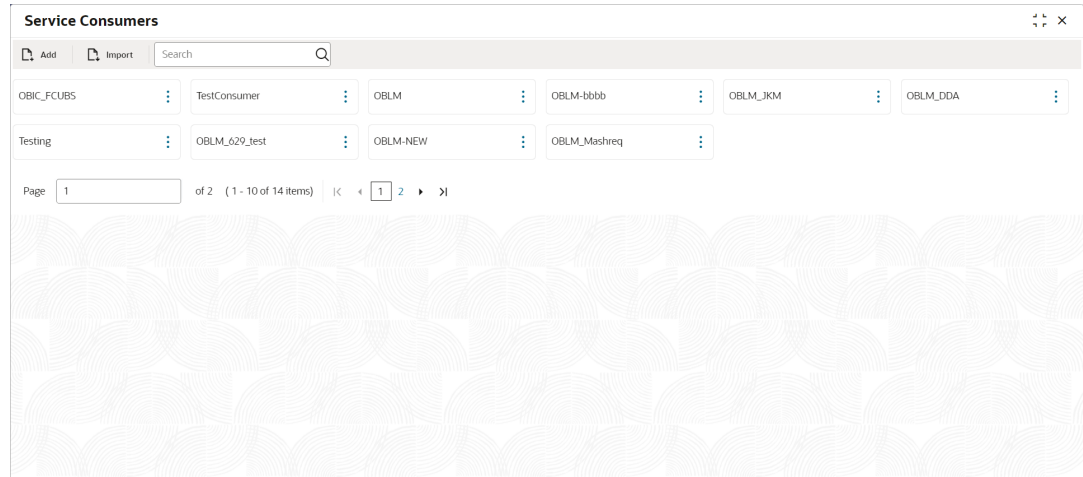
 **Note:**

Ignore below steps 3 & 4 if the files that are already imported during installation.

2. On **Core Maintenance** menu, Click **Routing Hub**. Under **Routing Hub**, click **Service Consumers**.

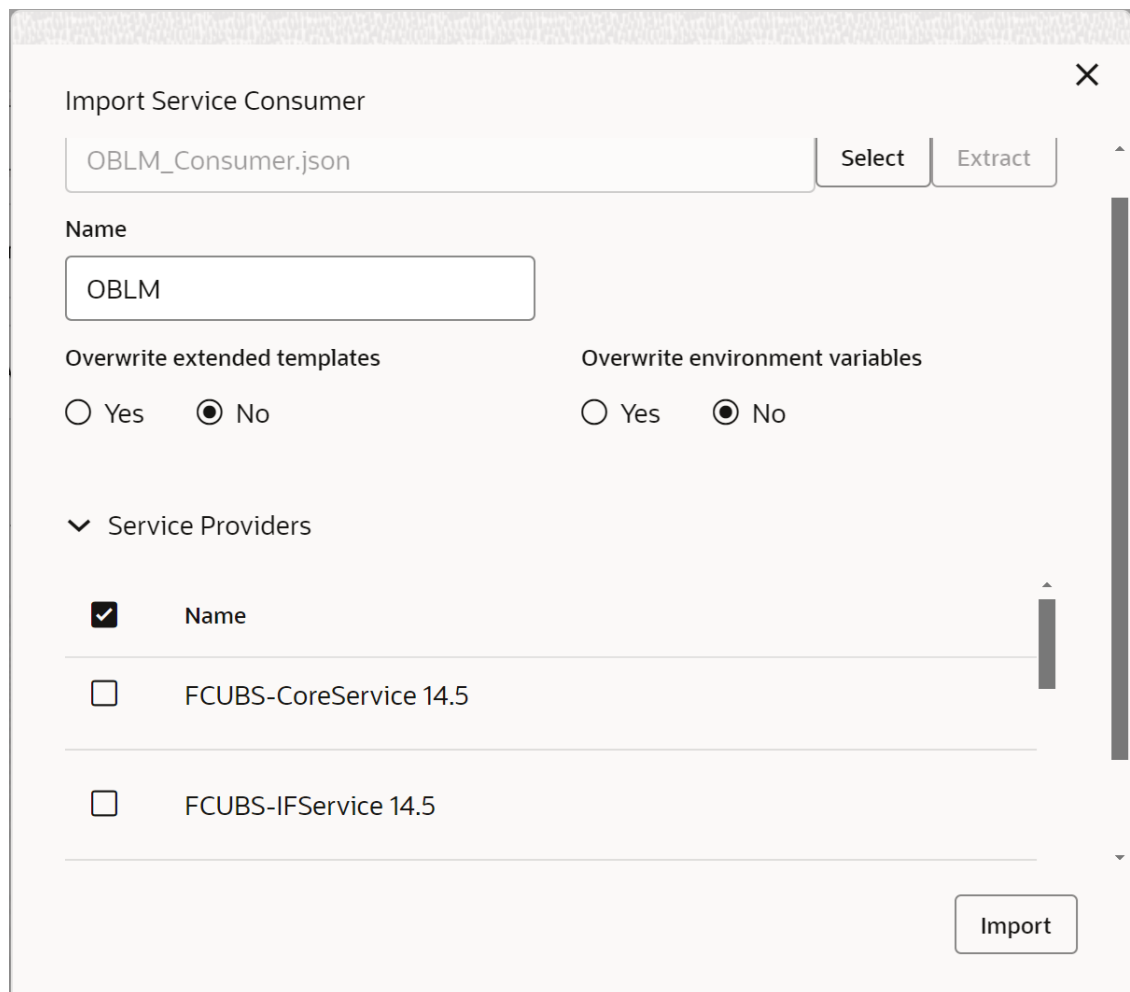
The **Service Consumers** screen displays.

Figure 1-1 Service Consumers



3. Click **Import** button, select file **OBLM_Consumer.json**
4. Click the **Extract** button and then select all the service providers
5. Click the **Import** button.

Figure 1-2 Import Service Consumer



1.2 Service Providers

This topic provides the information about the Service Providers.

Oracle Banking Liquidity Management Service Providers.

Figure 1-3 Service Providers

OBLM

Service Providers Consumer Services

Add Import Search

OBTR_MoneyMarket Version 14.5 Type EXTERNAL Status ACTIVE	FCUBS-CoreService Version 14.5 Type EXTERNAL Status ACTIVE	OBPM-PMSinglePayOutService Version 14.5 Type EXTERNAL Status ACTIVE	FCUBS-IFService Version 14.5 Type EXTERNAL Status ACTIVE	OBA Version 14.7 Type INTERNAL Status ACTIVE
FCUBSCAService Version 14.5 Type EXTERNAL Status ACTIVE	OBPM-PMRftOutService Version 14.5 Type EXTERNAL Status ACTIVE	OBVAM-BalanceService Version 14.5 Type EXTERNAL Status ACTIVE	FCUBS_TermDeposit Version 14.5 Type EXTERNAL Status ACTIVE	OBVAM-HANDOFF Version 14.5 Type EXTERNAL Status ACTIVE

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1.3 Consumer Services

This topic provides the information about the Consumer Services.

Oracle Banking Liquidity Management Consumer Services.

Figure 1-4 Consumer Service

Actions	Name	Description
⋮	PMRftOutService	Request for transfer - MT101
⋮	ACCOUNTHANDOFF	DDA account handoff
⋮	BALANCEQUERY	Account balance query service
⋮	CreateRTLResponse	CreateRTLResponse
⋮	CreateEcablk	CreateEcablk
⋮	PMSinglePayOutService	Cross Border payment service - MT103
⋮	MoneyMarket	OBTR Money Market Investment
⋮	TermDeposit	FCUBS Term Deposit Investment
⋮	CloseEcablk	CloseEcablk

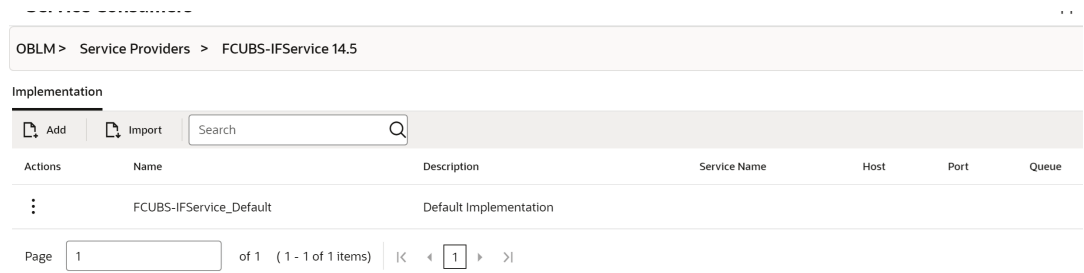
1.4 Configure Service Providers

This topic describes the configure the service providers for Oracle Banking Liquidity Management.

1. Click on consumer **OBLM**.
2. Click on any service providers (For example **FCUBS-IFService**).
3. Click **Actions** icon and select **Edit**.

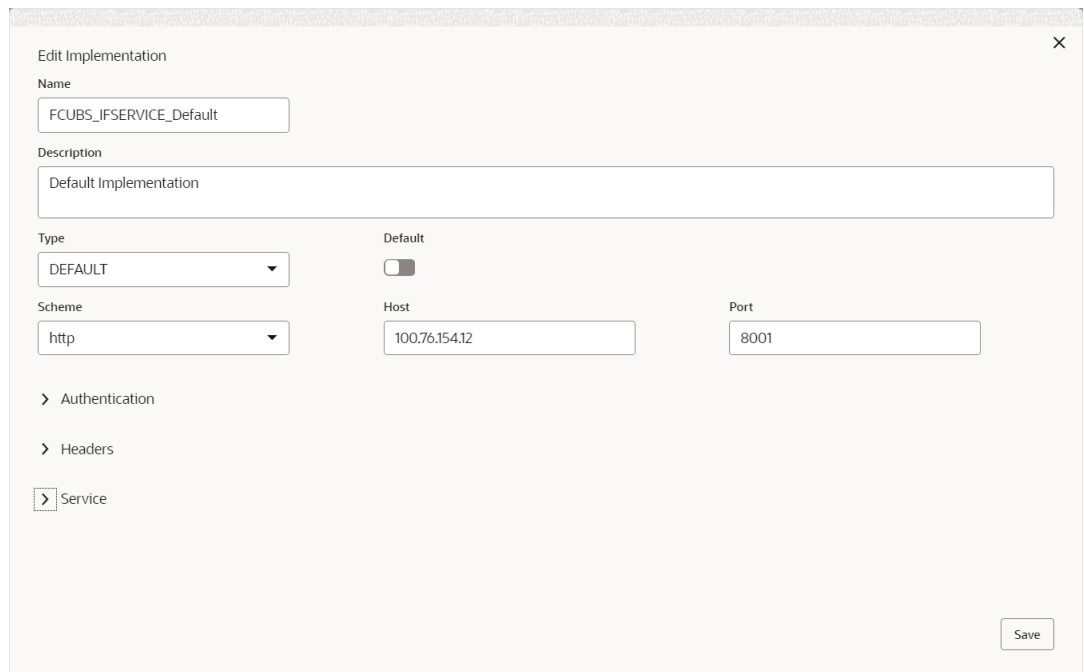
The **Service Consumer** screen appears.

Figure 1-5 Service Consumers Screen



4. Update the **Host** and **Port No.** of **FCUBSIFService** webservice and click **Save**.
The **Edit Implementation** screen appears.

Figure 1-6 Edit Implementation



5. Repeat the step 2 to 4 for all other service providers and update appropriate **Host & Port No.**

1.5 Configuring Consumer Services

This topic describes the configure the Consumer Services for Oracle Banking Liquidity Management.

1. Click on consumer **OBLM**.
2. Click on any consumer services (For example **BALANCEQUERY**).

The **Consumers Service List** screen appears

Figure 1-7 Consumers Service List

Service Consumers

OBLM

Service Providers **Consumer Services**

Add Import Search

Actions	Name	Description
⋮	PMRftOutService	Request for transfer - MT101
⋮	ACCOUNTHANDOFF	DDA account handoff
⋮	BALANCEQUERY	Account balance query service
⋮	CreateRTLResponse	CreateRTLResponse
⋮	CreateEcablk	CreateEcablk
⋮	PMSinglePayOutService	Cross Border payment service - MT103
⋮	MoneyMarket	OBTR Money Market Investment
⋮	TermDeposit	FCUBS Term Deposit Investment
⋮	CloseEcablk	CloseEcablk

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- From the **Routing** menu, click **Action** icon of **BALANCEQUERY** and then click **Edit**. The **Routing** Menu screen appears.

Figure 1-8 Routing Menu

Service Consumers

OBLM > Consumer Services > BALANCEQUERY

Transformation **Routing**

Add Search

Actions	Name	Start/Stop	Rule	Product Processor	Implementation	Service
⋮	BalanceQueryRoute	●	(source == 'CDDAP') && (balanceType == 'VALUEDT')	OBA 14.7	OBA_Default	balanceQuery - /o
⋮	BalanceFetchRoute	●	(source == 'CDDAP') && (balanceType == 'AVLBAL')	OBA 14.7	OBA_Default	balance - /obccda
⋮	VAMBalFetch	●	(source == 'OBVAM')	OBVAM-BalanceService 14.5	OBVAM-BalanceService_Default	getSweepandVDB...

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- Click **Action** icon and Click **Edit**. The **Edit Route** screen appears.

Figure 1-9 Edit Route

Edit Route

Name: BalanceQueryRoute

Start/Stop: START STOP

Auto Shutdown:

Default Rule Custom Rule

Transformations

Actions	Product Processor	Implementation	Transformation
⋮	OBA 14.7	OBA_Default	OBABalanceQuery

Save

5. Click **Action** icon and Click **Edit** to edit the transformation.
The **Edit Transformation** screen appears.

Figure 1-10 Edit Transformation

Edit Transformation

Name: OBABalanceQuery

Active:

Product Processor: OBA 14.7

Implementation: OBA_Default

Service: balanceQuery - /obcdda-pp-trc

> Service

> Request Validation

> Headers

> Path Parameters

Save

6. Repeat the steps 2 to 4 to update the transformation for **BALANCEQUERY**.

2

Outbound API calls through Oracle Banking Routing Hub

This topic provides the information on the outbound API calls to Oracle Banking Liquidity Management.

This topic contains the following subtopics:

- [Oracle FLEXCUBE Universal Banking Integration](#)
This topic provides the integration account management for Oracle FLEXCUBE Universal Banking.
- [Payments Integration](#)
This topic describes about the payment integration management for Oracle Banking Payments.
- [Oracle Banking Virtual Account Management Integration](#)
This topic provides the integration account management for Oracle Banking Virtual Account Management.
- [Oracle Banking Accounts Integration](#)
This topic provides the integration account management for Oracle Banking Accounts.
- [Oracle Banking Treasury Management Integration](#)
This topic provides the integration for Oracle Banking Treasury Management.
- [Request Payload Samples](#)
This topic describes about the payload sample request for Oracle Banking Liquidity Management Integration.

2.1 Oracle FLEXCUBE Universal Banking Integration

This topic provides the integration account management for Oracle FLEXCUBE Universal Banking.

Oracle FLEXCUBE Universal Banking services listed below are required for Oracle Banking Liquidity Management integration. Make sure that the following services are available before the implementation:

Table 2-1 List of Integration Services

Sl.No	Provider System	Service URL	Service Description	Remarks
1	FCUBS	http://host:port/ FCUBSCoreService/ FCUBSCoreService?WSDL	Balance Fetch	Service API which is used to Fetch Balance from FCUBS
2	FCUBS	http://host:port/ FCUBSIFService/ FCUBSIFService?WSDL	Accounting Hand-off	Service API which is used for Accounting Hand off to FCUBS

Table 2-1 (Cont.) List of Integration Services

SI.No	Provider System	Service URL	Service Description	Remarks
3	FCUBS	http://host:port/ FCUBSTDSERVICE/ FCUBSTDSERVICE?WSDL	TD Contract Hand-Off	Service API which is used for Investment Sweep - TD to FCUBS
4	FCUBS	http://host:port/ FCUBSCASERVICE/ FCUBSCASERVICE?WSDL	CreateEcablK	Service API which is used for Create RTL blocks request
5	FCUBS	http://host:port/ FCUBSCASERVICE/ FCUBSCASERVICE?WSDL	CreateExtAcc EcaEntries	Service API which is used for Accounting Hand off to FCUBS RTL
6	FCUBS	http://host:port/ FCUBSCASERVICE/ FCUBSCASERVICE?WSDL	CreateRTLRe sponse	Service API which is used for RTL status update

2.2 Payments Integration

This topic describes about the payment integration management for Oracle Banking Payments.

Table 2-2 Payments Integration

SI.No	Provider System	Service URL	Service Description	Remarks
1	OBPayments	http://host:port/obpm- crossborder-service/ PMRftOutService?WSDL	Transfer Request- MT101	Service API which is used for MT101 Initiation Request
2	OBPayments	http://host:port/obpm- foundation-service/ PMSinglePayOutService? WSDL	Payment Initiation- MT103	Service API which is used for MT103 Initiation Request
3	OBPayments	http://host:port/obpm- foundation-service/ PMSinglePayOutService BookTransfer?WSDL	Payment Initiation- Book Transfer	Service API which is used for Book Transfer Initiation

- [Message Mapping for OBRH](#)
This topic describes about the Messages mapped for OBRH.

2.2.1 Message Mapping for OBRH

This topic describes about the Messages mapped for OBRH.

Table 2-3 PMSinglePayOutService

SI.no	Tag Name	Tag Description
1	"GrpHdr_InitGpty" : "",	Initiating party
2	"PmtInf_ReqdExctnDt" : "2019-01-14",	Requested Execution date
3	"PmtInf_Dbtr_Id_OrgId_Othr_SchmeNm_Cd" : "COID",	Debtor Identification Scheme name code

Table 2-3 (Cont.) PMSinglePayOutService

Sl.no	Tag Name	Tag Description
4	"PmtInf_PmtTplnf_SvcLvl_Cd" : "SDVA",	Service level code
5	"CtgyPurp_Cd" : "INTC",	Category purpose code
6	"PmtInf_DbtrAgt_BICFI" : "ABPUNE12XB1",	Debtor Agent BICFI
7	"PmtInf_DbtrAgtAcct_Id_Othr_Id" : "7252",	Debtor agent Account ID
8	"PmtInf_Dbtr_Id_Orgld_Othr_Prtry" : "",	Debtor ID Organisation ID proprietary
9	"PmtInf_Dbtr_PstlAdr" : [],	Debtor postal address
10	"PmtInf_PmtTplnf_InstrPrty" : "HIGH",	Payment Type information- Instruction Priority
11	"PmtInf_DbtrAcct_Ccy" : "",	Debtor Account Currency
12	"PmtInf_DbtrAcct_Id_IBAN" : "AT483200000012345864",	Debtor IBAN
13	"PmtInf_DbtrAcct_Id_Othr_Id" : "MAXACC",	Debtor Details --> Debtor Account Number
14	"PmtInf_Dbtr_Id_Orgld_Othr_Id" : "ACHCOID03",	Debtor ID ->Organisation-> other-> ID
15	"PmtInf_chrgBr_cd" : "OUR",	Main Tab --> Charge Bearer
16	"PmtInf_PmtMtd" : "TRF",	Payment Method
17	"PmtInf_Dbtr_Nm" : "MAXACC",	Main Tab --> Debtor Name
18	"CdtTrfTxInf_PmtId_InstrId" : "100770645",	Instruction Identification
19	"CdtTrfTxInf_Cdtr_PstlAdr_AdrLine3" : "",	Postal Address
20	"CdtTrfTxInf_Amt_InstdAmt_Ccy" : "GBP",	Instructed amount currency
21	"CdtTrfTxInf_Cdtr_Nm" : "OBS32412144",	Creditor name
22	"CdtTrfTxInf_Amt_InstdAmt_value" : 125,	Instructed amount
23	"CdtTrfTxInf_Cdtr_PstlAdr_AdrLine2" : "",	Postal Address
24	"CdtTrfTxInf_Amt_EqvtAmt_CcyOfTrf" : "",	Equivalent Amount Currency of Transfer
25	"CdtTrfTxInf_IntrMyagt1_BICFI" : null,	Intermediary Agent
26	"CdtTrfTxInf_IntrMyagt1_PstlAdr" : [],	Intermediary Agent Postal address
27	"CdtTrfTxInf_CdtrAgtAcct_BICFI" : "",	Creditor Agent Account Bank identifier code
28	"CdtTrfTxInf_CdtrAgtAcct_Id_Othr" : "",	Creditor Agent Account number
29	"CdtTrfTxInf_Amt_EqvtAmt_value" : "",	Equivalent amount value
30	"CdtTrfTxInf_CdtrAgt_BICFI" : "STRBIC00",	Creditor agent BICFI
31	"CdtTrfTxInf_CdtrAgt_PstlAdr" : [],	Creditor agent postal address
32	"CdtTrfTxInf_Cdtr_PstlAdr" : null,	Creditor Postal Address
33	"CdtTrfTxInf_PmtId_EndToEndId" : "100770645",	Payment Identification End to End Identification
34	"CdtTrfTxInf_Amt_EqvtAmt_Ccy" : "",	Equivalent amount currency
35	"CdtTrfTxInf_CdtrAcct_Id_Othr_Id" : "",	Creditor account identification
36	"CdtTrfTxInf_CdtrAgt_Nm" : "CdtrAgt Name Test",	Creditor Agent Name
37	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst" : "",	Beneficiary Institution
38	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst_BICFI" : null,	Beneficiary Institution BICFI

Table 2-3 (Cont.) PMSinglePayOutService

SI.no	Tag Name	Tag Description
39	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst_PstlAdr" : [],	BeneficiaryInst Institution Postal Address
40	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst Acct_Id_Othr" : "",	Beneficiary Institution account ID
41	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst Acct_Id_Othr_Id" : "",	Beneficiary institution account -> Other -> Identification
42	"PmtInf_CustCrDtRfInitAddInf_SndrToRcvrInfo" : [],	Sender to receiver Info
43	"PmtInf_CustCrDtRfInitAddInf_Recvr" : null,	Instructed Agent- BICFI
44	"PmtInf_CustcrdtrfinitAddinf_CreditNostro" : "",	Settlement Account
45	"PmtInf_MisDtails" : "",	Mis Details
46	"PmtInf_BeneficiaryInst_Nm" : "Bene Name Test",	Beneficiary Institution name
47	"GrpTlr_NetworkCode" : "SWIFT",	Network Code
48	"GrpTlr_SourceCode" : "MANL",	Source Code
49	"GrpTlr_HostCode" : "DUBLIN_I",	Host code
50	"GrpTlr_TransferType" : "C",	Transfer Type
51	"GrpTlr_PrefundedPayments" : "N",	Prefunded Payments
52	"GrpTlr_TxnBranch" : "MAX",	Transaction branch
53	"GrpTlr_TxnRefNo" : 0,	Transaction reference number
54	"GrpTlr_CustomerNo" : "7252",	Customer Number
55	"GrpTlr_SsiLabel" : "",	SSI label
56	"GrpTlr_ActivationDate" : "2019-01-14",	Activation date
57	"GrpTlr_Remarks" : "",	Internal remarks

Table 2-4 PMRftOutService

SI.no	Tag Name	Tag description
1	"RftOutCreateIOType_referenceno" : "100770783",	Reference number
2	"RftOutCreateIOType_hostcode" : "DUBLIN_I",	Host code
3	"RftOutCreateIOType_branchcode" : "TEL",	branch code
4	"RftOutCreateIOType_customerno" : "MASH",	Customer number
5	"RftOutCreateIOType_receiver" : "APACGB61XXX",	receiver
6	"RftOutCreateIOType_tag28DMSGINX" : 1,	Message Index/Total
7	"RftOutCreateIOType_tag28DMSGTOT" : 1,	Message Index/Total
8	"RftOutCreateIOType_tag50ORDOPT" : "F",	Ordering Customer
9	"RftOutCreateIOType_tag50ORDACC" : "MB10000",	Ordering Customer
10	"RftOutCreateIOType_tag50ORDADD1" : null,	Ordering Customer
11	"RftOutCreateIOType_tag50ORDADD2" : null,	Ordering Customer
12	"RftOutCreateIOType_tag50ORDADD3" : null,	Ordering Customer

Table 2-4 (Cont.) PMRftOutService

SI.no	Tag Name	Tag description
13	"RftOutCreatelOType_tag30" : "2021-09-21",	Requested Execution Date
14	"RftOutCreatelOType_tag25" : "12222321",	Authorisation
15	"RftOutCreatelOType_sourcecode" : "MANL",	-
16	"MsgOut101Detail1" : [{	-
17	"tag57AWIOPT" : "A",	Account with Institution
18	"tag57AWIBIC" : "APACGB61XXX",	Account with Institution
19	"tag59ACC" : "MB10001",	Beneficiary
20	"tag59ADD1" : null,	Beneficiary
21	"tag71A" : "S",	Details of Charges
22	"tag23ELINE1" : "CORT",	Instruction Code
23	"tag32BCCY" : "GBP",	Currency/ Transaction Amount
24	"tag32BAMOUNT" : 1000,	Currency/ Transaction Amount
25	"tag56INTBIC" : null,	Intermediary
26	"tag56INTCLRGCD" : null,	Intermediary
27	"tag56INTPARTYID" : null,	Intermediary
28	"tag56INTOPT" : null,	Intermediary
29	"tag56INTADD1" : null,	Intermediary
30	"tag56INTADD2" : null,	Intermediary
31	"tag56INTADD3" : null,	Intermediary
32	"tag56INTADD4" : null	Intermediary

2.3 Oracle Banking Virtual Account Management Integration

This topic provides the integration account management for Oracle Banking Virtual Account Management.

Table 2-5 Oracle Banking Virtual Account Management Integration

SI.No	Provider System	Service URL	Service Description	Remarks
1	OBVAM	http://host:port/api-gateway/obvam-account-services/service/sweepandvaluedatedbalance	Balance Fetch	Service API used for Balance Fetch
2	OBVAM	http://host:port/api-gateway/obvam-transaction-journal-services/service/txns	Accounting Hand-off	Service API which is used for Accounting Hand off to OBVAM

VamIm Account Event:

- A Kafka event is raised on creation/modification of a Virtual Account with Liquidity Management Allowed flag as yes.
- This event is consumed at Oracle Banking Liquidity Management which creates the customer if not already present and the virtual accounts.

2.4 Oracle Banking Accounts Integration

This topic provides the integration account management for Oracle Banking Accounts.

Oracle Banking Accounts services listed below are required for Oracle Banking Liquidity Management integration. Make sure that the following services are available before the implementation:

Table 2-6 List of Integration Services

SI.No	Provider System	Service URL	Service Description	Remarks
1	OBA	http://host:port/obcdda-pp-transaction-batch-services/service/v1/balancequery	Value Dated Balance Fetch	Service API which is used to Fetch Balance from OBA
2	OBA	http://host:port/obcdda-pp-transaction-balance-service/transaction/accounting	Accounting Hand-off	Service API which is used for Accounting Hand off to OBA
3	OBA	http://host:port/obcdda-pp-transaction-balance-service/transaction/amountblock	Amount Block	Service API which is used for amount blocks request
4	OBA	http://host:port/obcdda-pp-transaction-balance-service/transaction/rtl/callback	Amount Block Status	Service API which is used for amount blocks status
5	OBA	http://host:port/obcdda-pp-transaction-balance-service/transaction/amountblock/release	Undo Amount Block	Service API which is used to reverse the amount blocks request
6	OBA	http://host:port/obcdda-pp-transaction-balance-service/balances	Current Available Balance Fetch	Service API which is used to Fetch Balance from OBA

2.5 Oracle Banking Treasury Management Integration

This topic provides the integration for Oracle Banking Treasury Management.

Table 2-7 Oracle Banking Treasury Management Integration

SI.No	Provider System	Service URL	Service Description	Remarks
1	OBTR	http://host:port/OBTRMMService/OBTRMMService?WSDL	CreateMMContractFS	Service API which is used to create money market contract

2.6 Request Payload Samples

This topic describes about the payload sample request for Oracle Banking Liquidity Management Integration.

Oracle FLEXCUBE Universal Banking

Oracle FLEXCUBE Universal Banking Balance Fetch

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:fcub="http://fcubs.ofss.com/service/FCUBSCoreentitiesService">
  <soapenv:Header/>
  <soapenv:Body>
    <FCUBS_REQ_ENV>
      <FCUBS_HEADER>
        <SOURCE>$fcubsheader.source</SOURCE>
        <UBSCOMP>FCUBS</UBSCOMP>
        <USERID>$fcubsheader.userid</USERID>
        <BRANCH>$fcubsheader.branch</BRANCH>
        <MODULEID>PX</MODULEID>
        <SERVICE>PMRftOutService</SERVICE>
        <OPERATION>CreateRftOut</OPERATION>
        <DESTINATION>FCUBS</DESTINATION>
      </FCUBS_HEADER>
      <FCUBS_BODY>
        <Master-IO>
          <REFNO>$fcubsbody.masterIO.refno</REFNO>
          #foreach($extSysAccountDetails in $fcubsbody.masterIO.input)
            <Input>
              <ACCNO>$.tag57AWIOPT</ACCNO>
              <TRNDT>$.tag57AWIBIC</TRNDT>
              <BALANCETYPE>$.tag59ACC</BALANCETYPE>
            </Input>
          #end
        </Master-IO>
      </FCUBS_BODY>
    </FCUBS_REQ_ENV>
```

Oracle FLEXCUBE Universal Banking Accounting Handoff

```
<FCUBS_REQ_ENV>
  <FCUBS_HEADER>
    <SOURCE>$fcubsheader.source</SOURCE>
    <UBSCOMP>FCUBS</UBSCOMP>
    <MSGID>$fcubsheader.msgid</MSGID>
    <CORRELID>$fcubsheader.correlid</CORRELID>
    <USERID>$fcubsheader.userid</USERID>
    <BRANCH>$fcubsheader.branch</BRANCH>
    <MODULEID>PX</MODULEID>
    <SERVICE>PMRftOutService</SERVICE>
    <OPERATION>CreateRftOut</OPERATION>
    <SOURCE_OPERATION>NEW</SOURCE_OPERATION>
    <SOURCE_USERID>$fcubsheader.sourceuserid</SOURCE_USERID>
```

```

        <DESTINATION>$fcubsheader.destination</DESTINATION>
        <MULTITRIPID>$fcubsheader.multitripid</MULTITRIPID>
        <FUNCTIONID>$fcubsheader.functionid</FUNCTIONID>
        <ACTION>NEW</ACTION>
        <PASSWORD></PASSWORD>
    </FCUBS_HEADER>
    <FCUBS_BODY>
        <Acc-Entry-Master-Full>

            <UNIQUEEXTREFNO>$fcubsbody.accEntryMasterFull.uniqueextrefno</
UNIQUEEXTREFNO>

            <TRNREFNO>$fcubsbody.accEntryMasterFull.trnrefno</
TRNREFNO>

            #foreach($AcctEntrydetailsdetails in
$fcubsbody.accEntryMasterFull.accEntryDetails)
            <Acc-Entry-Details>
            <DRCRIND>AcctEntrydetailsdetails.drccrind</DRCRIND>
            <TRNREFNO>AcctEntrydetailsdetails.trnrefno</TRNREFNO>
            <EVENT>AcctEntrydetailsdetails.event</EVENT>
            <EXCHRATE>AcctEntrydetailsdetails.exchrates</EXCHRATE>
            <EVENTSRNO>AcctEntrydetailsdetails.eventsrno</EVENTSRNO>
            <VALUEDT>AcctEntrydetailsdetails.valuedt</VALUEDT>
            <MODULE>AcctEntrydetailsdetails.module</MODULE>
            <AMTTAG>AcctEntrydetailsdetails.amttag</AMTTAG>
            <ACCCY>AcctEntrydetailsdetails.acccy</ACCCY>
            <FCYAMT>AcctEntrydetailsdetails.fcycamt</FCYAMT>
            <ACBRANCH>AcctEntrydetailsdetails.acbranch</ACBRANCH>
            <ACNO>AcctEntrydetailsdetails.acno</ACNO>
            <RELATEDACCOUNT>relatedaccount</RELATEDACCOUNT>
            <LCYAMT>AcctEntrydetailsdetails.lcyamt</LCYAMT>
            <TRNCODE>AcctEntrydetailsdetails.trncode</TRNCODE>
            </Acc-Entry-Details>
            #end
        </Acc-Entry-Master-Full>
    </FCUBS_BODY>
</FCUBS_REQ_ENV>

```

CreateEcablk(RTL)

```

<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
    <env:Header />
    <env:Body>
        <CREATEECABLK_FSFS_REQ
xmlns="http://fcubs.ofss.com/service/FCUBSCAService">
            <FCUBS_HEADER>
                <SOURCE>EXTSYS</SOURCE>
                <UBSCOMP>FCUBS</UBSCOMP>
                <USERID>$body.userId</USERID>
                <BRANCH>$body.branch</BRANCH>
                <SERVICE>FCUBSCAService</SERVICE>
                <OPERATION>CreateEcablk</OPERATION>
            </FCUBS_HEADER>
            <FCUBS_BODY>
                <Eca-Master-Full>

```

```

    <CREATEEXTREFNO>$body.createExtRefNo</CREATEEXTREFNO>
    <UPDASERRIFANYFAIL>N</UPDASERRIFANYFAIL>
    <BRN>$body.branch</BRN>
    <REFERRALALLOWED>N</REFERRALALLOWED>
    <Eca-Detail>
      <CUSTACNO>$body.custAcNo</CUSTACNO>
      <CUSTACBRN>$body.branch</CUSTACBRN>
      <CUSTACCCY>$body.custAcCcy</CUSTACCCY>
      <PARTIALBLKREQD>Y</PARTIALBLKREQD>
      <REQBLKAMT>$body.reqBlkAmt</REQBLKAMT>
    </Eca-Detail>
  </Eca-Master-Full>
</FCUBS_BODY>
</CREATEECABLK_FSFS_REQ>
</env:Body>
</env:Envelope>

```

CloseEcablk(RTL)

```

<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header />
  <env:Body>
    <CLOSEECABLK_FSFS_REQ xmlns="http://fcubs.ofss.com/service/
FCUBSCAService">
      <FCUBS_HEADER>
        <SOURCE>EXTSYS</SOURCE>
        <UBSCOMP>FCUBS</UBSCOMP>
        <USERID>$body.userId</USERID>
        <BRANCH>$body.branch</BRANCH>
        <SERVICE>FCUBSCAService</SERVICE>
        <OPERATION>CloseEcablk</OPERATION>
      </FCUBS_HEADER>
      <FCUBS_BODY>
        <Eca-Master-Full>
          <UNDOEXTREFNO>$body.undoExtRefNo</UNDOEXTREFNO>
          <ECAREFNO>$body.ecaRefNo</ECAREFNO>
          <Eca-Detail>
            <CUSTACNO>$body.custAcNo</CUSTACNO>
            <CUSTACBRN>$body.custAcBrch</CUSTACBRN>
          </Eca-Detail>
        </Eca-Master-Full>
      </FCUBS_BODY>
    </CLOSEECABLK_FSFS_REQ>
  </env:Body>
</env:Envelope>

```

CreateRTLResponse(RTL)

```

<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header />
  <env:Body>
    <CREATERTLRESPONSE_FSFS_REQ xmlns="http://fcubs.ofss.com/service/
FCUBSCAService">

```

```

    <FCUBS_HEADER>
      <SOURCE>EXTSYS</SOURCE>
      <UBSCOMP>FCUBS</UBSCOMP>
      <USERID>$body.userId</USERID>
      <BRANCH>$body.branch</BRANCH>
      <MODULEID>IF</MODULEID>
      <SERVICE>FCUBSCAService</SERVICE>
      <OPERATION>CreateRTLResponse</OPERATION>
      <SOURCE_OPERATION>CreateRTLResponse</SOURCE_OPERATION>
      <FUNCTIONID>IFDRTLRS</FUNCTIONID>
      <ACTION>NEW</ACTION>
      <MSGSTAT>$body.msgStat</MSGSTAT>
    </FCUBS_HEADER>
    <FCUBS_BODY>
      <Rtl-Queue-Full>
        <DDATXNREF>$body.ddaTxnRef</DDATXNREF>
        <RTLREFERENCENO>$body.rtlReferenceNo</RTLREFERENCENO>
        <TXNAMNT>$body.txnAmnt</TXNAMNT>
        <TXNCCY>$body.txnCcy</TXNCCY>
        <RTLSTATUS>$body.rtlStatus</RTLSTATUS>
        <RTLSTATUSMESSAGE>$body.rtlStatusMessage</RTLSTATUSMESSAGE>
      </Rtl-Queue-Full>
    </FCUBS_BODY>
  </CREATERTLRESPONSE_FSFS_REQ>
</env:Body>
</env:Envelope>

```

Oracle Banking Virtual Account Management

Balance fetch

```

{
  "sweepandVDBalanceServiceRequestDto": [
    {
      "virtualAccountNumber": "string",
      "valueDate": "string"
    }
  ]
}

```

Handoff

```

{
  "sourceCode": "string",
  "sourceReferenceNo": "string",
  "vatRequestDetServiceDTO": [
    {
      "drCrInd": "string",
      "txnAccount": "string",
      "txnAccountBrn": "string",
      "txnCcy": "string",
      "txnAccountCcy": "string",
      "amtInTxnAccCcy": 0,
      "txnAmount": 0,
      "txnCode": "string",

```



```

        "valueDate": "string",
        "exchRate": 0,
        "reconRefNo": "string",
        "addlText": "string",
        "ecaOrBlockRefNo": "string",
        "ddaOffset": "string",
        "forceDebit": "N",
        "blkReleaseStatus": "string"
    }
}
]
}

```

Oracle Banking Payments

PMRftOutService - MT101

```

<FCUBS_REQ_ENV>
  <FCUBS_HEADER>
    <SOURCE>$fcubsheader.source</SOURCE>
    <UBSCOMP>FCUBS</UBSCOMP>
    <MSGID>$fcubsheader.msgid</MSGID>
    <CORRELID></CORRELID>
    <USERID>$fcubsheader.userid</USERID>
    <BRANCH>$fcubsheader.branch</BRANCH>
    <MODULEID>PX</MODULEID>
    <SERVICE>PMRftOutService</SERVICE>
    <OPERATION>CreateRftOut</OPERATION>
    <SOURCE_OPERATION>NEW</SOURCE_OPERATION>
    <SOURCE_USERID></SOURCE_USERID>
    <DESTINATION></DESTINATION>
    <MULTITRIPID></MULTITRIPID>
    <FUNCTIONID></FUNCTIONID>
    <ACTION></ACTION>
    <PASSWORD></PASSWORD>
  </FCUBS_HEADER>
  <FCUBS_BODY>
    <Msg-Out101-Full>
      <REFERENCE_NO>$fcubsbody.msgOut101IO.referenceno</REFERENCE_NO>
      <HOST_CODE>$fcubsbody.msgOut101IO.hostcode</HOST_CODE>
      <BRANCH_CODE>$fcubsbody.msgOut101IO.branchcode</BRANCH_CODE>
      <CUSTOMER_NO>$fcubsbody.msgOut101IO.customerno</CUSTOMER_NO>
      <RECEIVER>$fcubsbody.msgOut101IO.receiver</RECEIVER>
      <TAG28D_MSGINX>$fcubsbody.msgOut101IO.tag28DMSGINX</TAG28D_MSGINX>
      <TAG28D_MSGTOT>$fcubsbody.msgOut101IO.tag28DMSGTOT</TAG28D_MSGTOT>
      <TAG50_ORD_OPT>$fcubsbody.msgOut101IO.tag50ORDOPT</TAG50_ORD_OPT>
      <TAG50_ORD_ACC>$fcubsbody.msgOut101IO.tag50ORDACC</TAG50_ORD_ACC>
      <TAG50_ORD_ADD1>$fcubsbody.msgOut101IO.tag50ORDADD1/add1</
TAG50_ORD_ADD1>
      <TAG50_ORD_ADD2>$fcubsbody.msgOut101IO.tag50ORDADD2</TAG50_ORD_ADD2>
      <TAG50_ORD_ADD3>$fcubsbody.msgOut101IO.tag50ORDADD3</TAG50_ORD_ADD3>
      <TAG30>$fcubsbody.msgOut101IO.tag30</TAG30>
      <TAG25>$fcubsbody.msgOut101IO.tag25</TAG25>
      <SOURCE_CODE>$.</SOURCE_CODE>
      #foreach($msgoutdetails in $fcubsbody.msgOut101IO.msgOut101Detail)
    <Msg-Out101-Detail>
      <TAG57_AWI_OPT>$msgoutdetails.tag57AWIOPT</TAG57_AWI_OPT>

```

```

    <TAG57_AWI_BIC>$msgoutdetails.tag57AWIBIC</TAG57_AWI_BIC>
    <TAG59_ACC>$msgoutdetails.tag59ACC</TAG59_ACC>
    <TAG59_ADD1>$msgoutdetails.tag59ADD1/add1</TAG59_ADD1>
    <TAG71A>$msgoutdetails.tag71A</TAG71A>
    <TAG23E_LINE1>$msgoutdetails.tag23ELINE1</TAG23E_LINE1>
    <TAG32B_CCY>$msgoutdetails.tag32BCCY</TAG32B_CCY>
    <TAG32B_AMOUNT>$msgoutdetails.tag32BAMOUNT</TAG32B_AMOUNT>
  </Msg-Out101-Detail>
#end
</Msg-Out101-Full>
  </FCUBS_BODY>
</FCUBS_REQ_ENV>

```

PMSinglePayOutService - MT103

```

<FCUBS_REQ_ENV>
  <FCUBS_HEADER>
    <pms.SOURCE>$fcubsheader.source</pms.SOURCE>
    <pms.UBSCOMP>FCUBS</pms.UBSCOMP>
    <pms.MSGID>$fcubsheader.msgid</pms.MSGID>
    <pms.CORRELID></pms.CORRELID>
    <pms.USERID>$fcubsheader.userid</pms.USERID>
    <pms.BRANCH>$fcubsheader.branch</pms.BRANCH>
    <pms.MODULEID>PX</pms.MODULEID>
    <pms.SERVICE>PMRftOutService</pms.SERVICE>
    <pms.OPERATION>CreateRftOut</pms.OPERATION>
    <pms.SOURCE_OPERATION>NEW</pms.SOURCE_OPERATION>
    <pms.SOURCE_USERID>$fcubsheader.sourceuserid</pms.SOURCE_USERID>
    <pms.DESTINATION>$fcubsheader.destination</pms.DESTINATION>
    <pms.MULTITRIPID>$fcubsheader.multitripid</pms.MULTITRIPID>
    <pms.FUNCTIONID>$fcubsheader.functionid</pms.FUNCTIONID>
    <pms.ACTION>$fcubsheader.action</pms.ACTION>
    <pms.PASSWORD>$fcubsheader.password</pms.PASSWORD>
  </FCUBS_HEADER>
<FCUBS_BODY>
  <pms:CstmrCdtTrfInitn>
    <pms:GrpHdr>
      <pms:MsgId>$fcubsbody.cstmrCdtTrfInitn.grpHdr.msgId</pms:MsgId>
    <pms:CreDtTm>$fcubsbody.cstmrCdtTrfInitn.grpHdr.creDtTm</pms:CreDtTm>

    <pms:Authstn>$fcubsbody.cstmrCdtTrfInitn.grpHdr.authstn</pms:Authstn>

    <pms:NbOfTxs>$fcubsbody.cstmrCdtTrfInitn.grpHdr.nbOfTxs</pms:NbOfTxs>

    <pms:InitgPty>$fcubsbody.cstmrCdtTrfInitn.grpHdr.initgPty</pms:InitgPty>
    </pms:GrpHdr>
    <pms:PmtInf>
    <pms:PmtInfId>$fcubsbody.cstmrCdtTrfInitn.pmtInf.pmtInfId</pms:PmtInfId>
      <pms:PmtMtd>$fcubsbody.cstmrCdtTrfInitn.pmtInf.pmtMtd</pms:PmtMtd>
      <pms:PmtTpInf>
    <pms:InstrPrty>$fcubsbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.instrPrty</pms:InstrPrty>
      <pms:SvcLvl>
    <pms:Cd>$fcubsbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.svcLvl.cd</pms:Cd>
      </pms:SvcLvl>
    </pms:PmtInf>
  </pms:CstmrCdtTrfInitn>

```

```

        <pms:CtgyPurp>
<pms:Cd>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.ctgyPurp.cd</pms:Cd>
        </pms:CtgyPurp>
    </pms:PmtTpInf>
<pms:ReqdExctnDt>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.reqdExctnDt</
pms:ReqdExctnDt>
    <pms:Dbtr>
        <pms:Nm>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.dbtr.nm</pms:Nm>
        <pms:PstlAdr/>
        <pms:Id>
            <pms:OrgId>
                <pms:ClrSysMmbId/>
                <pms:Othr>
<pms:Id>$fcubscopybody.cstmrCdtTrfInitn.pmtInf..dbtr.id.orgId.othr.id</pms:Id>
                    <pms:SchmeNm>
<pms:Cd>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.dbtr.id.orgId.othr.schmeNm.cd</
pms:Cd>
                        </pms:SchmeNm>
                    </pms:Othr>
                </pms:OrgId>
            </pms:Id>
        </pms:Dbtr>
        <pms:DbtrAcct>
            <pms:Id>
                <pms:Othr>
<pms:Id>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.dbtrAcct.id.othr.id</pms:Id>
                    </pms:Othr>
            </pms:Id>
        <pms:Ccy>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.dbtrAcct.ccy</pms:Ccy>
        </pms:DbtrAcct>
        <pms:DbtrAgt/>
        <pms:DbtrAgtAcct>
            <pms:Id>
                <pms:Othr/>
            </pms:Id>
        </pms:DbtrAgtAcct>
        <pms:CdtTrfTxInf>
            <pms:PmtId>
<pms:InstrId>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.cdtTrfTxInf.pmtId.instrId</
pms:InstrId>
                <pms:EndToEndId>$fcubscopybody.cstmrCdtTrfInitn.pmtInf.cdtTrfTxInf.pmtId.endToEndI
d</pms:EndToEndId>
                    </pms:PmtId>
                    <pms:Amt>
                        <pms:InstdAmt
Ccy="USD">$fcubscopybody.cstmrCdtTrfInitn.pmtInf.cdtTrfTxInf.amt.instdAmt</
pms:InstdAmt>
                            <pms:EqvtAmt/>
                        </pms:Amt>
                    <pms:CdtrAgt/>
                    <pms:CdtrAgtAcct>
                        <pms:Id>
                            <pms:Othr/>
                        </pms:Id>
                    </pms:CdtrAgtAcct>
                <pms:Cdtr>

```

```

<pms:Nm>$fcubscopy.cstmrCdtTrfInitn.pmtInf.cdtTrfTxInf.cdtr.nm</pms:Nm>
    <pms:PstlAdr/>
    </pms:Cdtr>
    <pms:CdtrAcct>
    <pms:Id>
    <pms:Othr>
<pms:Id>$fcubscopy.cstmrCdtTrfInitn.pmtInf.cdtTrfTxInf.cdtrAcct.id.othr.id</
pms:Id>
    </pms:Othr>
    </pms:Id>
    </pms:CdtrAcct>
    </pms:CdtTrfTxInf>
    <pms:Misdetails/>
    </pms:PmtInf>
    <pms:GrpTlr>
<pms:TxnBranch>$fcubscopy.cstmrCdtTrfInitn.grpTlr.txnBranch</pms:TxnBranch>
<pms:HostCode>$fcubscopy.cstmrCdtTrfInitn.grpTlr.hostCode</pms:HostCode>
<pms:SourceCode>$fcubscopy.cstmrCdtTrfInitn.grpTlr.sourceCode</pms:SourceCode>
<pms:NetworkCode>$fcubscopy.cstmrCdtTrfInitn.grpTlr.networkCode</
pms:NetworkCode>
    </pms:GrpTlr>
    </pms:CstmrCdtTrfInitn>
    </FCUBS_BODY>
    </FCUBS_REQ_ENV>

```

Oracle Banking Digital Experience

Execute Sweep Structure

```

{
    "overridePending": "N",
    "allowMbaccAccountPair": "N",
    "mode": "A",
    "structureList": [
        {
            "structureId": "ST20217167444516010503",
            "versionNumber": 1
        }
    ]
}

```

Create Sweep Structure

```

{
    "data": [
        {
            "headerAccountNumber": "HEL0046400178",
            "endDate": "2022-07-01",
            "currencyRateType": "STANDARD",
            "backwardTreatment": "N",
            "balanceType": "V",
            "versionNo": 1,
            "centralAccountNumber": null,
            "allowSweepOnCurrencyHol": "Y",
            "holidayTreatment": "P",

```

```
"structureStatus": "A",
"structrePriority": 25,
"fxRatePickup": "Offline",
"headerCurrency": "GBP",
"reallocationMethod": "No Reallocation",
"maxBackwardDays": 2,
"LmmTmStructureDetailsDTO": [
  {
    "reverseSweepFrequency": null,
    "percentageShare": 0,
    "accountCurrency": "GBP",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmStructureInstructionDTO": [],
    "isExternal": "Internal",
    "accountType": "Sweep",
    "accountLevel": 0,
    "branchCode": "HEL",
    "isNotional": "N",
    "reallocationMethod": null,
    "bookingAccountNumber": "HEL0046400178",
    "sweepPriority": null,
    "bookingAccountBranch": "HEL",
    "parentAccountBranch": null,
    "isNominatedAccount": "Y",
    "accountNumber": "HEL0046400178",
    "parentAccountNumber": null,
    "accCategory": "Sweep",
    "parentAccountCurrency": null
  },
  {
    "reverseSweepFrequency": "FM2341112",
    "percentageShare": 0,
    "accountCurrency": "GBP",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmTempStructurePriorityDTO": [
      {
        "id": "",
        "structureMasterId": "",
        "structureId": "STG5MWB4PS39",
        "structurePriority": 1
      }
    ]
  }
]

"LmmTmStructureInstructionDTO": [
  {
    "structureDetailsId": "",
    "LmmTmStructureInstructionDetDTO": [
      {
        "structureInstructionId": "",
        "paramName": "Maximum",

```

```

        "paramValue": "4000"
    },
    {
        "structureInstructionId": "",
        "paramName": "MaximumDeficit",
        "paramValue": "1000"
    },
    {
        "structureInstructionId": "",
        "paramName": "Minimum",
        "paramValue": "1"
    },
    {
        "structureInstructionId": "",
        "paramName": "MinimumDeficit",
        "paramValue": "100"
    },
    {
        "structureInstructionId": "",
        "paramName": "Multiple",
        "paramValue": "10"
    }
],
"instrDesc": "Zero Balance Model",
"instructionPriority": 1,
"LmmTmStructureInstructionFrequencyDTO": [
    {
        "frequencyId": "FM2341112",
        "structureInstructionId": "",
        "freqDesc": null
    }
],
"instructionId": "TEST22"
}
],
"isExternal": "Internal",
"accountType": "Sweep",
"accountLevel": 1,
"branchCode": "HEL",
"isNotional": "N",
"reallocationMethod": null,
"bookingAccountNumber": "HEL0046400067",
"sweepPriority": 1,
"bookingAccountBranch": "HEL",
"parentAccountBranch": "HEL",
"isNominatedAccount": "Y",
"accountNumber": "HEL0046400067",
"parentAccountNumber": "HEL0046400178",
"accCategory": "Sweep",
"parentAccountCurrency": "GBP"
}
],
"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Sweep 19721",
"systemAccountCurrency": null,

```

```

"systemAccountBranch": null,
"LmmTmStructureAccountsDTO": [
  {
    "isExternal": "Internal",
    "accountCurrency": "GBP",
    "accountNumber": "HEL0046400178",
    "isNotional": "N",
    "isSelected": "Y",
    "accCategory": "Sweep",
    "accountBranch": "HEL"
  },
  {
    "isExternal": "Internal",
    "accountCurrency": "GBP",
    "accountNumber": "HEL0046400067",
    "isNotional": "N",
    "isSelected": "Y",
    "accCategory": "Sweep",
    "accountBranch": "HEL"
  }
],
"customerId": "000464",
"systemAccountNumber": null,
"considerPostSweepBalance": "Y",
"ratePickUp": "Previous Day Rate",
"structureId": "STG5MWB4PS39",
"multiBankFlag": true,
"centralAccountBranch": null,
"structureType": "Sweep",
"headerBranchCode": "HEL",
"interestMethod": "I",
"effectiveDate": "2018-07-19"
}
]
}

```

Modify Sweep Structure

```

{
  "data": [
    {
      "keyId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
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"isNotional": "N",
"accCategory": "Sweep",
"parentAccountNumber": null,
"parentAccountBranch": null,
"parentAccountCurrency": null,
"bookingAccountNumber": "HEL0046400178",
"bookingAccountBranch": "HEL",
"bookingAccountCurrency": "GBP",
"rateType": "STANDARD",
"accountType": "Sweep",
"sweepPriority": null,
"isTwoWay": "Y",
"reverseSweepFrequency": null,
"twoWaySweepPriority": null,
"onlineBalanceFetch": null,
"partialReverseSweep": null,
"isHold": null,
"eodExecution": null,
"ratePickUp": null,
"reallocationRequired": null,
"reallocationMethod": null,
"allowReverseSweep": null,
"isNominatedAccount": "Y",
"accountLevel": 0,
"centralAccountNumber": null,
"centralAccountBranch": null,
"centralAccountCurrency": null,
"percentageShare": 0,
"percentageChildShare": null,
"partialTransferAllowed": null,
"holdStartDate": null,
"holdEndDate": null,
"isVirtual": "N",
"oneWayAccountGroup": null,
"twoWayAccountGroup": null,
"isRegulatedDebits": "N",
"entityID": "HEL_ENTITY",
"entityName": "HEL_ENTITY_NAME",
"iban": null,
"customerName": "XXX XXXXXXX",
"LmmTmStructureInstructionDTO": [],
"LmmTmStructurePaymentDTO": [],
"LmmTmStructureAccPriorityDTO": [],
"LmmTmStrRevSweepDetailsDTO": [],
"LmmTmStructureIclDTO": []
}
],
"LmmTmStructureAccountsDTO": [
{
  "id": "1fb03839-982e-42fd-ac81-e5f4fd2ee281",
```

```

        "structureMasterId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
        "accountNumber": "HEL0046400178",
        "accountDescription": "HEL0046400178",
        "accountBranch": "HEL",
        "accountCurrency": "GBP",
        "isExternal": "Internal",
        "isNotional": "N",
        "accCategory": "Sweep",
        "accountType": null,
        "acyAvailableBal": 1000000,
        "bankCode": "0020",
        "countryId": "AUS",
        "cityId": "Sydney",
        "region": "Australia/Adelaide",
        "isSelected": "Y",
        "isRegulatedDebits": "N",
        "entityID": "HEL_ENTITY",
        "entityName": "HEL_ENTITY_NAME",
        "iban": null,
        "customerName": "XXX XXXXXX"
    },
    {
        "id": "386a0140-1a7e-4d62-a421-7eae57bb98e1",
        "structureMasterId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
        "accountNumber": "HEL0046400067",
        "accountDescription": "ALL SPORTS",
        "accountBranch": "HEL",
        "accountCurrency": "GBP",
        "isExternal": "Internal",
        "isNotional": "N",
        "accCategory": "Sweep",
        "accountType": null,
        "acyAvailableBal": 2500,
        "bankCode": "0020",
        "countryId": "AUS",
        "cityId": "Sydney",
        "region": "America/Detroit",
        "isSelected": "Y",
        "isRegulatedDebits": "N",
        "entityID": "HEL_ENTITY",
        "entityName": "HEL_ENTITY_NAME",
        "iban": null,
        "customerName": "XXX XXXXXX"
    }
  ]
}

```

Create Pool Structure

```

{
  "data": [
    {
      "headerAccountNumber": null,

```

```
"endDate": "2022-07-01",
"currencyRateType": "STANDARD",
"backwardTreatment": "H",
"balanceType": "V",
"versionNo": 1,
"centralAccountNumber": null,
"allowSweepOnCurrencyHol": "Y",
"holidayTreatment": "P",
"structureStatus": "A",
"structurePriority": 55,
"fxRatePickup": "Offline",
"headerCurrency": null,
"reallocationMethod": "Even Direct Distribution",
"maxBackwardDays": 2,
"LmmTmStructureDetailsDTO": [
  {
    "reverseSweepFrequency": null,
    "percentageShare": 0,
    "accountCurrency": "GBP",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmStructureInstructionDTO": [],
    "isExternal": "Internal",
    "accountType": "Pool",
    "accountLevel": 1,
    "branchCode": "HEL",
    "isNotional": "N",
    "reallocationMethod": null,
    "bookingAccountNumber": "HEL0046400067",
    "sweepPriority": null,
    "bookingAccountBranch": "HEL",
    "parentAccountBranch": null,
    "isNominatedAccount": "Y",
    "accountNumber": "HEL0046400067",
    "parentAccountNumber": null,
    "accCategory": "Pool",
    "parentAccountCurrency": null
  }
],
"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Pool 19721",
"systemAccountCurrency": "GBP",
"systemAccountBranch": "HEL",
"LmmTmStructureAccountsDTO": [
  {
    "isExternal": "Internal",
    "accountCurrency": "GBP",
    "accountNumber": "HEL0046400067",
    "isNotional": "N",
    "isSelected": "Y",
    "accCategory": "Pool",
    "accountBranch": "HEL"
  }
]
```

```

    ],
    "customerId": "000464",
    "systemAccountNumber": null,
    "considerPostSweepBalance": "N",
    "ratePickUp": "Past 5 day Average Rate",
    "structureId": "ST98TZE860XD",
    "multiBankFlag": true,
    "centralAccountBranch": null,
    "structureType": "Pool",
    "headerBranchCode": null,
    "interestMethod": "I",
    "effectiveDate": "2018-07-19"
  }
]
}

```

Modify Pool Structure

```

{
  "data": [{
    "keyId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
    "makerId": "OBDX02",
    "makerDateStamp": "2018-11-30T10:48:10.000+00:00",
    "checkerId": "OBDX02",
    "checkerDateStamp": "2018-11-30T10:48:10.000+00:00",
    "modNo": 1,
    "recordStatus": "O",
    "authStatus": "A",
    "onceAuth": "Y",
    "doerRemarks": null,
    "approverRemarks": null,
    "links": [],
    "structureId": "ST98TZE860XD",
    "structureDescription": "Pool 19721",
    "customerId": "000464",
    "customerName": "XXX XXXXXX",
    "numberOfAccountsLinked": 2,
    "structureType": "Pool",
    "structurePriority": 55,
    "effectiveDate": "2018-07-19",
    "endDate": "2022-07-01",
    "headerAccountNumber": "OBDX_SYSACC_7153",
    "headerBranchCode": "HEL",
    "headerCurrency": "GBP",
    "multiBankFlag": "N",
    "crossBorderFlag": "N",
    "crossCurrencyFlag": "N",
    "balanceType": "V",
    "structureFrequency": null,
    "currencyRateType": "STANDARD",
    "allowSweepOnCurrencyHol": "Y",
    "interestMethod": "I",
    "ratePickUp": "Past 5 day Average Rate",
    "nextRunDate": null,
    "eodExecution": null,
  }
]
}

```

```
"reverseFrequency": null,
"instructionType": null,
"reallocationMethod": "Even Direct Distribution",
"holidayTreatment": "P",
"maxBackwardDays": 2,
"backwardTreatment": "H",
"centralAccountNumber": null,
"centralAccountBranch": null,
"centralAccountCurrency": null,
"nextRunDateReverse": null,
"prevRunDateReverse": null,
"structureStatus": "A",
"investmentSweep": null,
"considerPostSweepBalance": "N",
"fxRatePickup": "Offline",
"limitTrackingFlag": null,
"sourceSystem": "OBDX",
"systemAccountNumber": null,
"systemAccountBranch": null,
"systemAccountCurrency": null,
"pauseStartDate": null,
"pauseEndDate": null,
"action": "NEW",
"versionNo": 1,
"isSimulation": "N",
"simulationId": null,
"exStrId": null,
"callFromValidate": false,
"bodExecution": null,
"revFreqEodExecution": null,
"revFreqBodExecution": null,
"isDirty": "Y",
"lastSuccessfulSweepDate": null,
"batchStatus": null,
"trackIcl": null,
"LmmTmStructureDetailsDTO": [
  {
    "id": "4c0499a6-32a6-406f-b31d-0b96d044d325",
    "structureMasterId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
    "accountNumber": "OBDX_SYSACC_7153",
"accountDescription": "OBDX_SYSACC_7153 Notional Account",
    "branchCode": "HEL",
    "accountCurrency": "GBP",
    "isExternal": "External",
    "acyAvailableBal": null,
    "bankCode": "0020",
    "countryId": "AUS",
    "cityId": "Sydney",
    "region": "Australia/Adelaide",
    "latitude": -33.92,
    "longitude": 151.1852,
    "isNotional": "Y",
    "accCategory": "Pool",
    "parentAccountNumber": null,
    "parentAccountBranch": null,
    "parentAccountCurrency": null,
```

```
    "bookingAccountNumber": "OBDX_SYSACC_7153",
    "bookingAccountBranch": "HEL",
    "bookingAccountCurrency": "GBP",
    "rateType": null,
    "accountType": "Notional",
    "sweepPriority": 1,
    "isTwoWay": null,
    "reverseSweepFrequency": null,
    "twowaySweepPriority": null,
    "onlineBalanceFetch": null,
    "partialReverseSweep": null,
    "isHold": "N",
    "eodExecution": "N",
    "ratePickUp": null,
    "reallocationRequired": null,
    "reallocationMethod": null,
    "allowReverseSweep": "N",
    "isNominatedAccount": null,
    "accountLevel": 0,
    "centralAccountNumber": null,
    "centralAccountBranch": null,
    "centralAccountCurrency": null,
    "percentageShare": null,
    "percentageChildShare": null,
    "partialTransferAllowed": null,
    "holdStartDate": null,
    "holdEndDate": null,
    "isVirtual": null,
    "oneWayAccountGroup": null,
    "twoWayAccountGroup": null,
    "isRegulatedDebits": "N",
    "entityID": "HEL_ENTITY",
    "entityName": "HEL_ENTITY_NAME",
    "iban": null,
    "customerName": "XXX XXXXXXX",
    "LmmTmStructureInstructionDTO": [],
    "LmmTmStructurePaymentDTO": [],
    "LmmTmStructureAccPriorityDTO": [],
    "LmmTmStrRevSweepDetailsDTO": [],
    "LmmTmStructureIcdDTO": []
  },
  {
    "id": "bf46f936-e1f0-4ec9-a3e7-a9036f2bd7b6",
    "structureMasterId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
    "accountNumber": "HEL0046400067",
    "accountDescription": "ALL SPORTS",
    "branchCode": "HEL",
    "accountCurrency": "GBP",
    "isExternal": "Internal",
    "acyAvailableBal": 2500,
    "bankCode": "0020",
    "countryId": "AUS",
    "cityId": "Sydney",
    "region": "America/Detroit",
    "latitude": -33.92,
    "longitude": 151.1852,
```

```
    "isNotional": "N",
    "accCategory": "Pool",
    "parentAccountNumber": "OBDX_SYSACC_7153",
    "parentAccountBranch": "HEL",
    "parentAccountCurrency": "GBP",
    "bookingAccountNumber": "HEL0046400067",
    "bookingAccountBranch": "HEL",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "accountType": "Pool",
    "sweepPriority": null,
    "isTwoWay": "Y",
    "reverseSweepFrequency": null,
    "twowaySweepPriority": null,
    "onlineBalanceFetch": null,
    "partialReverseSweep": null,
    "isHold": null,
    "eodExecution": null,
    "ratePickUp": null,
    "reallocationRequired": null,
    "reallocationMethod": null,
    "allowReverseSweep": null,
    "isNominatedAccount": "Y",
    "accountLevel": 1,
    "centralAccountNumber": null,
    "centralAccountBranch": null,
    "centralAccountCurrency": null,
    "percentageShare": 0,
    "percentageChildShare": null,
    "partialTransferAllowed": null,
    "holdStartDate": null,
    "holdEndDate": null,
    "isVirtual": "N",
    "oneWayAccountGroup": null,
    "twoWayAccountGroup": null,
    "isRegulatedDebits": "N",
    "entityID": "HEL_ENTITY",
    "entityName": "HEL_ENTITY_NAME",
    "iban": null,
    "customerName": "XXX XXXXXX",
    "LmmTmStructureInstructionDTO": [],
    "LmmTmStructurePaymentDTO": [],
    "LmmTmStructureAccPriorityDTO": [],
    "LmmTmStrRevSweepDetailsDTO": [],
    "LmmTmStructureIcdDTO": []
  }
],
"LmmTmStructureAccountsDTO": [
  {
    "id": "851563de-855a-412a-b8fe-0bac5b5df735",
    "structureMasterId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
    "accountNumber": "OBDX_SYSACC_7153",
    "accountDescription": "OBDX_SYSACC_7153 Notional Account",
    "accountBranch": "HEL",
    "accountCurrency": "GBP",
    "isExternal": "External",
```



```

        "isNotional": "Y",
        "accCategory": "Pool",
        "accountType": "Notional",
        "acyAvailableBal": null,
        "bankCode": "0020",
        "countryId": "AUS",
        "cityId": "Sydney",
        "region": "Australia/Adelaide",
        "isSelected": "Y",
        "isRegulatedDebits": "N",
        "entityID": "HEL_ENTITY",
        "entityName": "HEL_ENTITY_NAME",
        "iban": null,
        "customerName": "XXX XXXXXXX"
    },
}

    {
        "id": "52a00e2f-394c-4b70-8b27-29b39ed4a5fb",
        "structureMasterId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
        "accountNumber": "HEL0046400067",
        "accountDescription": "ALL SPORTS",
        "accountBranch": "HEL",
        "accountCurrency": "GBP",
        "isExternal": "Internal",
        "isNotional": "N",
        "accCategory": "Pool",
        "accountType": null,
        "acyAvailableBal": 2500,
        "bankCode": "0020",
        "countryId": "AUS",
        "cityId": "Sydney",
        "region": "America/Detroit",
        "isSelected": "Y",
        "isRegulatedDebits": "N",
        "entityID": "HEL_ENTITY",
        "entityName": "HEL_ENTITY_NAME",
        "iban": null,
        "customerName": "XXX XXXXXXX"
    }
}
    ]
}
}
}

```

Create Hybrid Structure

```

{
  "data": [
    {
      "headerAccountNumber": null,
      "endDate": "2022-07-01",
      "currencyRateType": "STANDARD",
      "backwardTreatment": "H",
      "balanceType": "V",
      "versionNo": 1,
      "centralAccountNumber": null,
      "allowSweepOnCurrencyHol": "Y",
    }
  ]
}

```

```
"holidayTreatment": "P",
"structureStatus": "A",
"structurePriority": 57,
"fxRatePickup": "Offline",
"headerCurrency": null,
"reallocationMethod": "Absolute Pro-Rata Distribution",
"maxBackwardDays": 2,
"LmmTmStructureDetailsDTO": [
{
    "reverseSweepFrequency": null,
    "percentageShare": 0,
    "accountCurrency": "GBP",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmStructureInstructionDTO": [],
    "isExternal": "Internal",
    "accountType": "Pool",
    "accountLevel": 1,
    "branchCode": "HEL",
    "isNotional": "N",
    "reallocationMethod": null,
    "bookingAccountNumber": "HEL0046400067",
    "sweepPriority": null,
    "bookingAccountBranch": "HEL",
    "parentAccountBranch": null,
    "isNominatedAccount": "Y",
    "accountNumber": "HEL0046400067",
    "parentAccountNumber": null,
    "accCategory": "Pool",
    "parentAccountCurrency": null
},
{
    "reverseSweepFrequency": "FM2341112",
    "percentageShare": 0,
    "accountCurrency": "GBP",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmStructureInstructionDTO": [
        {
            "structureDetailsId": "",
            "LmmTmStructureInstructionDetDTO": [
                {
                    "structureInstructionId": "",
                    "paramName": "Maximum",
                    "paramValue": "4000"
                },
                {
                    "structureInstructionId": "",
                    "paramName": "MaximumDeficit",
                    "paramValue": "1000"
                }
            ]
        }
    ]
}
```

```
        "structureInstructionId": "",
        "paramName": "Minimum",
        "paramValue": "1"
    },
    {
        "structureInstructionId": "",
        "paramName": "MinimumDeficit",
        "paramValue": "100"
    },
    {
        "structureInstructionId": "",
        "paramName": "Multiple",
        "paramValue": "10"
    }
],
"instrDesc": "Zero Balance Model",
"instructionPriority": 1,
"LmmTmStructureInstructionFrequencyDTO": [
    {
        "frequencyId": "FM2341112",
        "structureInstructionId": "",
        "freqDesc": null
    }
],
"instructionId": "TEST22"
}
],
"isExternal": "Internal",
"accountType": "Sweep",
"accountLevel": 2,
"branchCode": "HEL",
"isNotional": "N",
"reallocationMethod": null,
"bookingAccountNumber": "HEL0046400178",
"sweepPriority": 1,
"bookingAccountBranch": "HEL",
"parentAccountBranch": "HEL",
"isNominatedAccount": "Y",
"accountNumber": "HEL0046400178",
"parentAccountNumber": "HEL0046400067",
"accCategory": "Sweep",
"parentAccountCurrency": "GBP"
}
],
"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Hybrid 19721",
"systemAccountCurrency": "GBP",
"systemAccountBranch": "HEL",
"LmmTmStructureAccountsDTO": [
    {
        "isExternal": "Internal",
        "accountCurrency": "GBP",
        "accountNumber": "HEL0046400067",
        "isNotional": "N",
        "isSelected": "Y",
```

```

        "accCategory": "Pool",
        "accountBranch": "HEL"
    },
    {
        "isExternal": "Internal",
        "accountCurrency": "GBP",
        "accountNumber": "HEL0046400178",
        "isNotional": "N",
        "isSelected": "Y",
        "accCategory": "Sweep",
        "accountBranch": "HEL"
    }
],
"customerId": "000464",
"systemAccountNumber": null,
"considerPostSweepBalance": "Y",
"ratePickUp": "Past 5 day Average Rate",
"structureId": "STUY82QJW4SH",
"multiBankFlag": true,
"centralAccountBranch": null,
"structureType": "Hybrid",
"headerBranchCode": null,
"interestMethod": "I",
"effectiveDate": "2018-07-19"
}
]
}

```

Modify Hybrid Structure

```

{
  "data": [
    {
      "headerAccountNumber": null,
      "endDate": "2022-07-01",
      "currencyRateType": "STANDARD",
      "backwardTreatment": "H",
      "balanceType": "V",
      "versionNo": 1,
      "centralAccountNumber": null,
      "allowSweepOnCurrencyHol": "Y",
      "holidayTreatment": "P",
      "structureStatus": "A",
      "structurePriority": 57,
      "fxRatePickup": "Offline",
      "headerCurrency": null,
      "reallocationMethod": "Absolute Pro-Rata Distribution",
      "maxBackwardDays": 2,
      "LmmTmStructureDetailsDTO": [
        {
          "reverseSweepFrequency": null,
          "percentageShare": 0,
          "accountCurrency": "GBP",
          "bookingAccountCurrency": "GBP",
          "rateType": "STANDARD",

```

```
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmStructureInstructionDTO": [],
    "isExternal": "Internal",
    "accountType": "Pool",
    "accountLevel": 1,
    "branchCode": "HEL",
    "isNotional": "N",
    "reallocationMethod": null,
    "bookingAccountNumber": "HEL0046400067",
    "sweepPriority": null,
    "bookingAccountBranch": "HEL",
    "parentAccountBranch": null,
    "isNominatedAccount": "Y",
    "accountNumber": "HEL0046400067",
    "parentAccountNumber": null,
    "accCategory": "Pool",
    "parentAccountCurrency": null
  },
  {
    "reverseSweepFrequency": "FM2341112",
    "percentageShare": 0,
    "accountCurrency": "GBP",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "isTwoWay": "Y",
    "structureMasterId": "",
    "LmmTmStructureInstructionDTO": [
      {
        "structureDetailsId": "",
        "LmmTmStructureInstructionDetDTO": [
          {
            "structureInstructionId": "",
            "paramName": "Maximum",
            "paramValue": "4000"
          },
          {
            "structureInstructionId": "",
            "paramName": "MaximumDeficit",
            "paramValue": "1000"
          },
          {
            "structureInstructionId": "",
            "paramName": "Minimum",
            "paramValue": "1"
          },
          {
            "structureInstructionId": "",
            "paramName": "MinimumDeficit",
            "paramValue": "100"
          },
          {
            "structureInstructionId": "",
            "paramName": "Multiple",
            "paramValue": "10"
          }
        ]
      }
    ]
  }
}
```

```
    ],
    "instrDesc": "Zero Balance Model",
    "instructionPriority": 1,
    "LmmTmStructureInstructionFrequencyDTO": [
      {
        "frequencyId": "FM2341112",
        "structureInstructionId": "",
        "freqDesc": null
      }
    ],
    "instructionId": "TEST22"
  }
],
"isExternal": "Internal",
"accountType": "Sweep",
"accountLevel": 2,
"branchCode": "HEL",
"isNotional": "N",
"reallocationMethod": null,
"bookingAccountNumber": "HEL0046400178",
"sweepPriority": 1,
"bookingAccountBranch": "HEL",
"parentAccountBranch": "HEL",
"isNominatedAccount": "Y",
"accountNumber": "HEL0046400178",
"parentAccountNumber": "HEL0046400067",
"accCategory": "Sweep",
"parentAccountCurrency": "GBP"
}
],
"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Hybrid 19721",
"systemAccountCurrency": "GBP",
"systemAccountBranch": "HEL",
"LmmTmStructureAccountsDTO": [
  {
    "isExternal": "Internal",
    "accountCurrency": "GBP",
    "accountNumber": "HEL0046400067",
    "isNotional": "N",
    "isSelected": "Y",
    "accCategory": "Pool",
    "accountBranch": "HEL"
  },
  {
    "isExternal": "Internal",
    "accountCurrency": "GBP",
    "accountNumber": "HEL0046400178",
    "isNotional": "N",
    "isSelected": "Y",
    "accCategory": "Sweep",
    "accountBranch": "HEL"
  }
],
"customerId": "000464",
```

```
        "systemAccountNumber": null,  
        "considerPostSweepBalance": "Y",  
        "ratePickUp": "Past 5 day Average Rate",  
        "structureId": "STUY82QJW4SH",  
        "multiBankFlag": true,  
        "centralAccountBranch": null,  
        "structureType": "Hybrid",  
        "headerBranchCode": null,  
        "interestMethod": "I",  
        "effectiveDate": "2018-07-19"  
    }  
]  
}
```

3

Inbound APIs

This topic provides the information on the set of inbound APIs provided by Oracle Banking Liquidity Management.

Table 3-1 Oracle Banking Liquidity Management Inbound APIs

SI.No	Consumer System	SERVICE NAME	Service URL
1	OBDX	closeLendLimit	http://host:port/api-gateway/oblm-icl-services /service/icl/customer/{id}/close
2	OBDX	createLMSimulation	http://host:port/api-gateway/oblm-structure-services /structure/createExternal
3	OBDX	createLMStructure	http://host:port/api-gateway/oblm-structure-services /structure/createExternal
4	OBDX	createlendlimit	http://host:port/api-gateway/oblm-icl-services /service/icl/customer
5	OBDX	downloadLMSimulationPDFReport	http://host:port/api-gateway/oblm-report-services /simulation/downloadReport
6	OBDX	editLMSimulation	http://host:port/api-gateway/oblm-structure-services /structure/modifyExternal
7	OBDX	editLMStructure	http://host:port/api-gateway/oblm-structure-services /service/lma/structure/v1/{id}
8	OBDX	editLendLimit	http://host:port/api-gateway/oblm-icl-services /service/icl/customer/{id}
9	OBDX	executeLMPoolStructure	http://host:port/api-gateway/oblm-pool-services /pool
10	OBDX	executeLMSweepStructure	http://host:port/api-gateway/oblm-sweep-services /sweepservice/executesweepobdx
11	OBDX	fetchICLTransactions	http://host:port/api-gateway/oblm-icl-services /service/icl/loan/{loanId}/transactions
12	OBDX	fetchLMAccounts	http://host:port/api-gateway/oblm-maintenance-services /service/lmma/account/getLinkedAccounts
13	OBDX	fetchLMAccountsByPartyId	http://host:port/api-gateway/oblm-maintenance-services /service/account
14	OBDX	fetchLMAccountsWithStructure	http://host:port/api-gateway/oblm-structure-services /service/lma/structure/priorities/accountNumbers/{accountNumbers}
15	OBDX	fetchLMAccountsWithlinkedStructure	http://host:port/api-gateway/oblm-structure-services /structure/v1/having-common-accounts

Table 3-1 (Cont.) Oracle Banking Liquidity Management Inbound APIs

SI.No	Consumer System	SERVICE NAME	Service URL
16	OBDX	fetchLMBranches	http://host:port/api-gateway/oblm-maintenance-services /service/lmm/branch
17	OBDX	fetchLMChargeDefinitionList	http://host:port/api-gateway/vamlm-charge-services /service/chargedefinition
18	OBDX	fetchLMChargeList	http://host:port/api-gateway/vamlm-charge-services /service/chargeInquiry
19	OBDX	fetchLMCurrency	http://host:port/api-gateway/oblm-maintenance-services /service/lmm/currency
20	OBDX	fetchLMFrequencies	http://host:port/api-gateway/oblm-maintenance-services /service/lmm/frequency
21	OBDX	fetchLMInstruction	http://host:port/api-gateway/oblm-cash-concentration-services /service/lmc/instruction
22	OBDX	fetchLMSimulation	http://host:port/api-gateway/oblm-structure-services /service/lma/structure
23	OBDX	fetchLMSimulationAccounts	http://host:port/api-gateway/oblm-maintenance-services /service/lmm/account/commonCoreAccountfetch
24	OBDX	fetchLMStructures	http://host:port/api-gateway/oblm-structure-services /service/lma/structure
25	OBDX	fetchPoolLogs	http://host:port/api-gateway/oblm-pool-services /service/lmp/pool/log
26	OBDX	fetchSweepLogs	http://host:port/api-gateway/oblm-sweep-services /sweepmonitor
27	OBDX	fetchUpcomingSweepLogs	http://host:port/api-gateway/oblm-dashboard-services /service/lmd/scheduledsweeps
28	OBDX	getChildAccountsForLMStructure	http://host:port/api-gateway/oblm-structure-services /service/lma/structure/v1/childAccounts
29	OBDX	getLMGroupCustomerID	http://host:port/api-gateway/oblm-icl-services /service/icl/loan/getGroupCustId
30	OBDX	initiateICLSettlement	http://host:port/api-gateway/oblm-icl-services /service/icl/loan/initiateSettlement
31	OBDX	listIntercompanyLoanSummary	http://host:port/api-gateway/oblm-icl-services /service/icl/loan/summary
32	OBDX	listLMInterCompanyLoans	http://host:port/api-gateway/oblm-icl-services /service/icl/loan
33	OBDX	listStructurePriorities	http://host:port/api-gateway/oblm-structure-services /service/lma/structure-priority/{customerId}
34	OBDX	partyHierarchyList	http://host:port/api-gateway/oblm-maintenance-services /customer/getAllCustomers

Table 3-1 (Cont.) Oracle Banking Liquidity Management Inbound APIs

SI.No	Consumer System	SERVICE NAME	Service URL
35	OBDX	readLMInterCompanyLoan	http://host:port/api-gateway/oblm-icl-services /service/icl/loan/{id}
36	OBDX	readLMLendLimit	http://host:port/api-gateway/oblm-icl-services /service/icl/customer
37	OBDX	readLMSimulation	http://host:port/api-gateway/oblm-structure-services /service/lma/structure/{id}
38	OBDX	readLMStructure	http://host:port/api-gateway/oblm-structure-services /service/lma/structure/v1/{id}
39	OBDX	readLMStructurePdfDownload	http://host:port/api-gateway/oblm-structure-services /service/lma/structure/{id}
40	OBDX	validateLMStructure	http://host:port/api-gateway/oblm-structure-services /structure/validate
41	OBDX	executeSweepAccountPair	http://host:port/api-gateway/oblm-sweep-services/sweepservice/adhoc/initiateSweep
42	OBDX	fetchReallocationMonitor	http://host:port/api-gateway/oblm-pool-services/poolRealloc
43	OBVAM	getLMAccount	http://host:port/api-gateway/oblm-maintenance-services/account?recordStat=O&accountNumber=xxxxx"
44	OBPM	processAckNack	http://host:port/api-gateway/oblm-integration-services/externalSystemLog/processAckNack
45	OBA	initiateRtlTxn	http://host:port/oblm-rtl- services/RtlTransaction/ initiateRtlTxn
46	OBA	postRtl	http://host:port/oblm-rtl- services/RtlTransaction/ postRtl
47	OBA	undoRtl	http://host:port/oblm-rtl- services/RtlTransaction/ undoRtl

For more information on the inbound API details, refer to the **REST API for Oracle Banking Liquidity Management**.

4 Events

This topic provides list of events in Oracle Banking Liquidity Management.

Oracle Banking Liquidity Management provides the below-listed events.

Table 4-1 List of Events

S.No	Topic	Purpose	Avro Schema
1	sweep-success (S)	Event is generated when a sweep is successful	Sweep Events
2	sweep-error (E)	Event is generated when a sweep has error	
3	sweep-pending (P)	Event is generated when a sweep is pending	
4	sweep-handOff (H)	Event is generated when a sweep is hand off	
5	sweep-count	Event is generated to count the sweep notification	
6	structure-created	Event is generated when a structure is created	Structure Events
7	structure-created and Authorized	Event is generated when a structure is created and authorized	
8	structure-modified	Event is generated when a structure is modified	
9	structure-modified and Authorized	Event is generated when a structure is modified and authorized	
10	structure-closed	Event is generated when a structure is closed	
11	structure-closed and Authorized	Event is generated when a structure is closed and authorized	
12	structure-reopen	Event is generated when a structure is reopened	
13	structure-reopen and Authorized	Event is generated when a structure is reopened and authorized	
14	structure-expiry	Event is generated when a structure is expired	
15	vamIm.bankchargeeventrequest	Event is generated when Bank is authorized	VamIm Account
16	vamIm.branchchargeeventrequest	Event is generated when Branch is authorized	
17	vamIm.structurechargesnotification	Event is generated when Structure is authorized	
18	vamIm.pricingmapnotification	Event is generated when Customer is authorized	

Table 4-1 (Cont.) List of Events

S.No	Topic	Purpose	Avro Schema
19	Im.accountnotification	Event is generated when account is authorized	
20	Im.vamImaccountnotification	This is a consumer topic for LM to auto create customer/ account, which consumes events published by VAM on creation of customer/account	
21	Imm-account	Event is generated for LM accounts	LM Account
22	Imx_tb_events_log	All the above events that needs to be published from the oblm-services will be stored in this event log	Event Message

**Note:**

Click on the links to download the avro files.

5

File Upload

This topic describes about the File Upload features for Oracle Banking Liquidity Management.

Oracle Banking Liquidity Management provides a facility for bulk upload of the below features.

- Account Setup File Upload
- VD Balance File Upload
- Bank Setup File Upload
- Branch Setup File Upload
- Country Definition File Upload
- Currency Cutoff File Upload
- Currency Definition File Upload
- Customer Setup File Upload
- Interface Setup File Upload
- Sweep Instruction File Upload



Note:

Refer to the **File Upload User Guide** for the more details.

6

FOP Advices

This topic provides the information to configure and generate liquidity management advice using a template created in Apache FOP.

This topic contains the following subtopics:

- [Prerequisites](#)
This topic provides the information of Prerequisites.
- [Template Upload Process](#)
This topic describes about process of uploading the report template for Oracle Banking Liquidity Management.
- [Generate Advices](#)
This topic describes about generating advices for Oracle Banking Liquidity Management.

6.1 Prerequisites

This topic provides the information of Prerequisites.

1. Create a new schema for PLATO-REPORT-SERVICE in your domain.
2. Ensure that the datasource is created in weblogic server:

Data Source	Weblogic Server	Schema
PLATOCMC	Jdbc/CMNCORE	Plato Common Core Server
PLATOSMS	jdbc/sms	Plato-SMS-Server
REPORTSERVICE	jdbc/REPORTSERVICE	Plato-Report-Service-Server

3. Enter the below properties in the setuseroverrides.sh file:

```
flyway.domain.placeholders.report-service.hostname= <http://  
<REPORT_SERVICE_HOSTNAME>:<REPORT_SERVICE_PORT>  
  
flyway.domain.placeholders.report-service.server.port=<REPORT_SERVICE_PORT>  
  
flyway.domain.placeholders.report-service.domain.jndi=jdbc/REPORTSERVICE  
  
flyway.domain.placeholders.report-service.template-metadata-directory=/  
scratch/OBMA/report-service/template_metadata  
  
flyway.domain.placeholders.report-service.output-directory=/scratch/OBMA/  
report-service/output/  
  
flyway.domain.placeholders.report-service.fop-config-file=/scratch/OBMA/  
report-service/fop.xconf
```

Note:

Refer to **Oracle Banking Microservices Platform Foundation Installation Guide** for a detailed explanation.

4. Create the folder structure mentioned in Step 3.
5. Download [fop.xconf](#) file and place in the directory: /scratch/OBMA/report-service.
6. Restart plato-config-service.
7. Deploy plato-report-services.

Once the plato-report-service deployed successfully, make sure that the below tables created in the PLATO-REPORT-SERVICE schema.

- ERTB_MSGS
- flyway_schema_history
- OBMA_DOCUMENT_STORE
- OBMA_EXTRACTOR_CONFIG
- OBMA_REPORT_LOG
- OBMA_TEMPLATE_IMAGE
- OBMA_TM_REPORT_METADATA
- OBMA_TM_TEMPLATE_IMAGE
- OBMA_TM_TEMPLATE_METADATA
- OBMA_TW_REPORT_METADATA
- OBMA_TW_TEMPLATE_IMAGE
- OBMA_TW_TEMPLATE_METADATA

8. Deploy oblm-report-services.
9. Once the oblm-report-services is deployed, ensure the below table is added in LMR schema.
 - LMR_TB_ADVICE

6.2 Template Upload Process

This topic describes about process of uploading the report template for Oracle Banking Liquidity Management.

For Template Upload process, refer to **Report Template** in *Oracle Banking Microservices Platform Foundation User Guide*.

Table 6-1 Naming Convention - Report Template

Report Name	Report Template
OBLM-Interest-Paid-Advice	Interest Paid Advice.xsl
OBLM-Interest-Reallocation-Advice	Interest Reallocation Advice.xsl
OBLM-Sweep-Structure-Advice	Sweep Structure Advice.xsl
OBLM-Simulation-Sweep-Advice	Simulation Sweep Report.xsl
OBLM-Simulation-Pool-Advice	Simulation Pool Advice.xsl
OBLM-Cash-Management-Sweep-Advice	Sweep Report Advice
OBLM-What-If-Simulation-Advice	WhatIF Simulation Advice



Note:

For Naming convention of Report names refer to **Create Report Linkage** in *Oracle Banking Microservices Platform Foundation User Guide*.



Note:

Click on the link to download the report template.

6.3 Generate Advices

This topic describes about generating advices for Oracle Banking Liquidity Management.

User can generate the Interest Paid Advice and Interest Reallocation Advice in **Advices** screen of Oracle Banking Liquidity Management.

Simulation Sweep Advice and **Simulation Pool Advice** is generated in **Simulation Summary** screen under Simulation menu in Oracle Banking Liquidity Management.

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