

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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Preface

Introduction

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 Virtual Account 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 Virtual Account Management application.

This manual is organized as follows:

Table 1 List of Topics

| Topics | Description |
|--|--|
| Steps to configure Service Providers for Oracle Banking Liquidity Management | This topic helps you to configure Service Providers for Oracle Banking Liquidity Management. |
| Integration Services | This topic helps you to Integrate services with Oracle Banking Liquidity Management. |
| Inbound APIs | This topic provides the information about the Inbound Service APIs of Oracle Banking Liquidity Management. |
| Events | This topic provides the information about the Events of Oracle Banking Liquidity Management. |
| File Upload | This topic provides the information about the File Upload features supported by Oracle Banking Liquidity Management. |
| FOP Advices | This topic provides the information to configure the FOP template for Advices. |

Scope

Read Sections Completely

Each section should be read and understood completely. Instructions should never be blindly applied. Relevant discussion may occur immediately after instructions for an action, so be sure to read whole sections before beginning implementation.

Understand the Purpose of this Guidance

The purpose of the guidance is to provide necessary integration services for Oracle Banking Liquidity Management.

Limitations

This guide is limited in its scope to integrate services guidelines for developers.

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**.

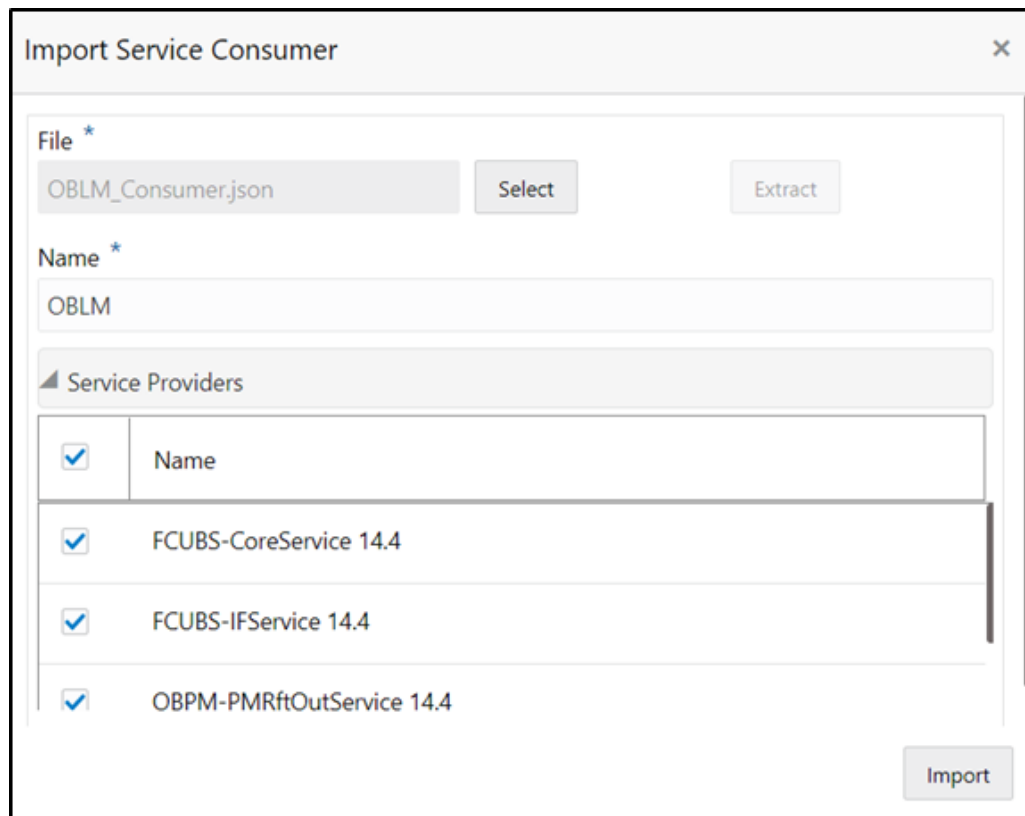
The **Service Consumers** screen displays.

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 Consumers

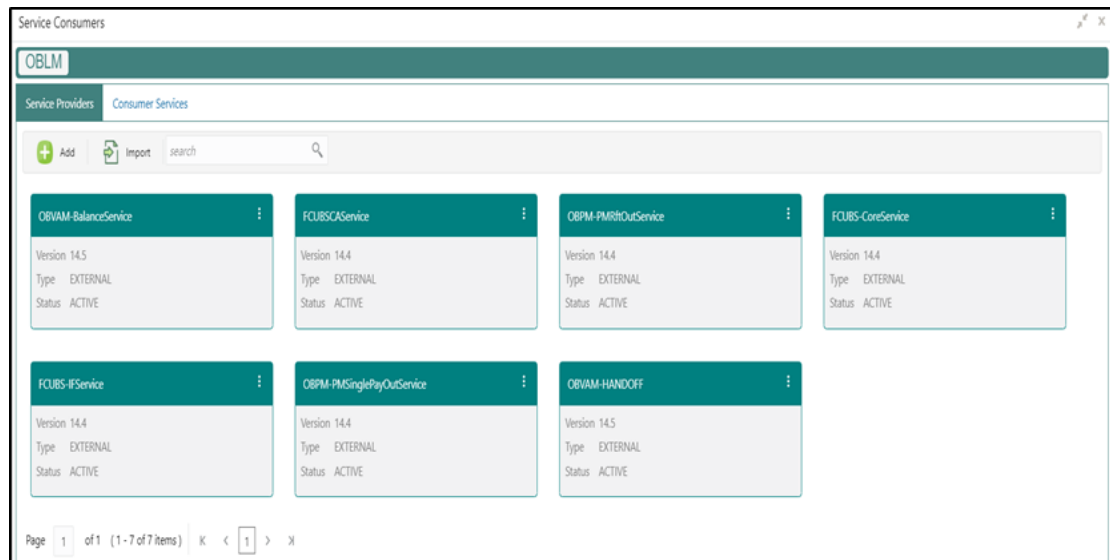


1.2 Service Providers

This topic provides the information about the Service Providers.

Oracle Banking Liquidity Management Service Providers.

Figure 1-3 Service Providers

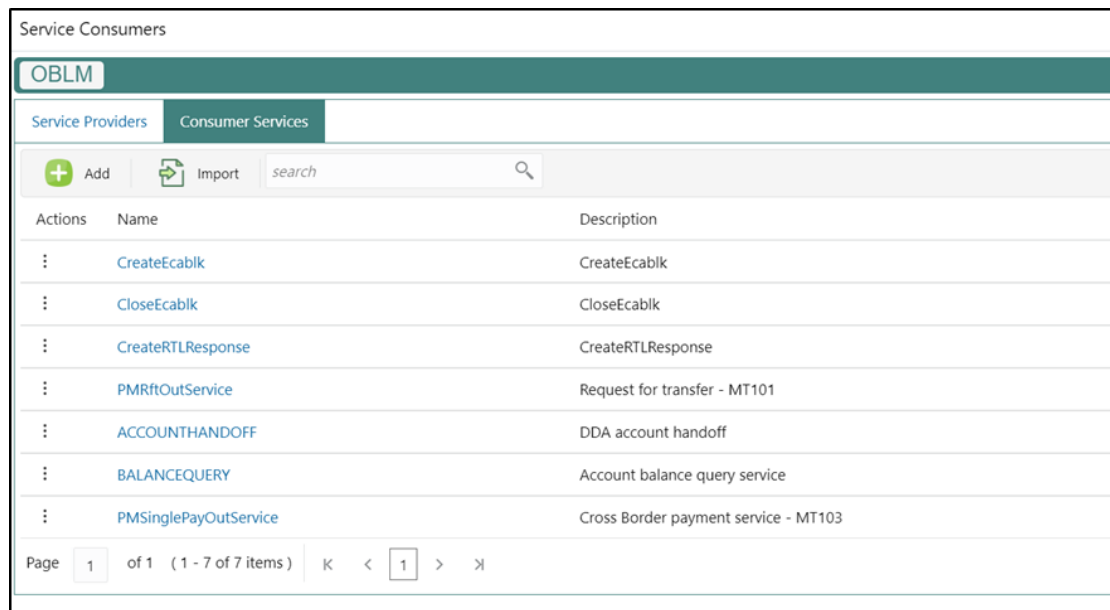


1.3 Consumer Services

This topic provides the information about the Consumer Services.

Oracle Banking Liquidity Management Consumer Services.

Figure 1-4 Consumer Service



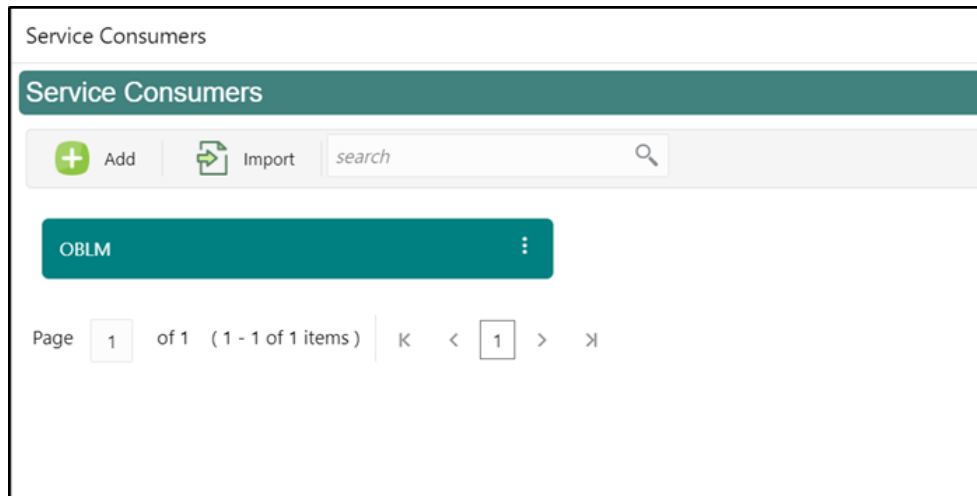
1.4 Configure Service Providers

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

1. Click on consumer **OBLM**.

The **Service Consumers** screen appears.

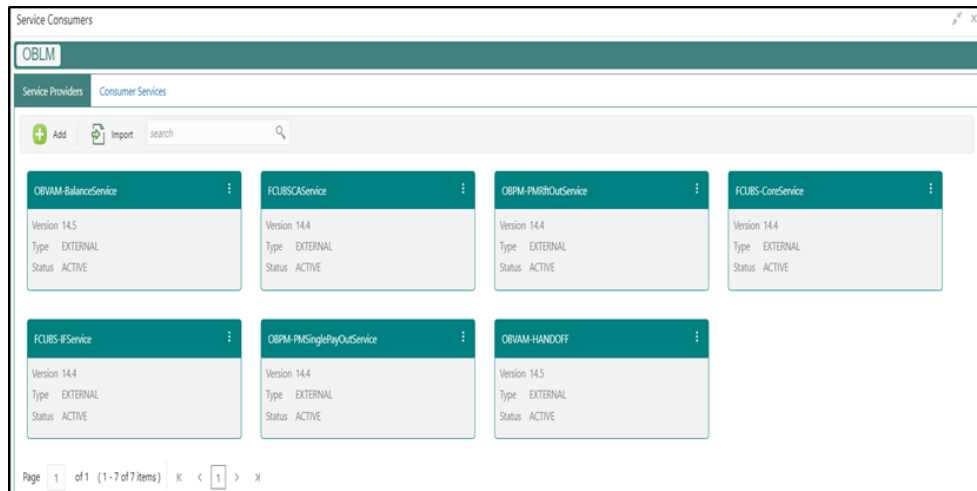
Figure 1-5 Consumer OBLM



2. Click on any service providers (For example **FCUBS-IFService**).

The **OBLM Service Provides** screen appears.

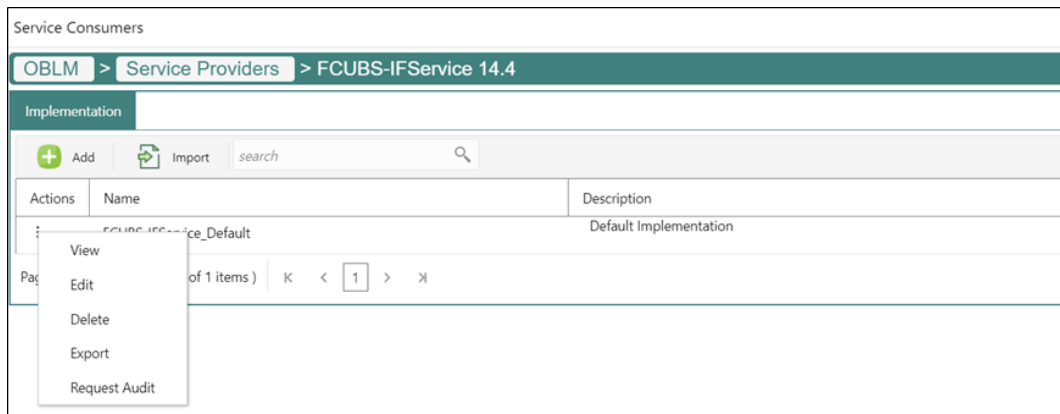
Figure 1-6 OBLM Service Providers



3. Click **Actions** icon and select **Edit**.

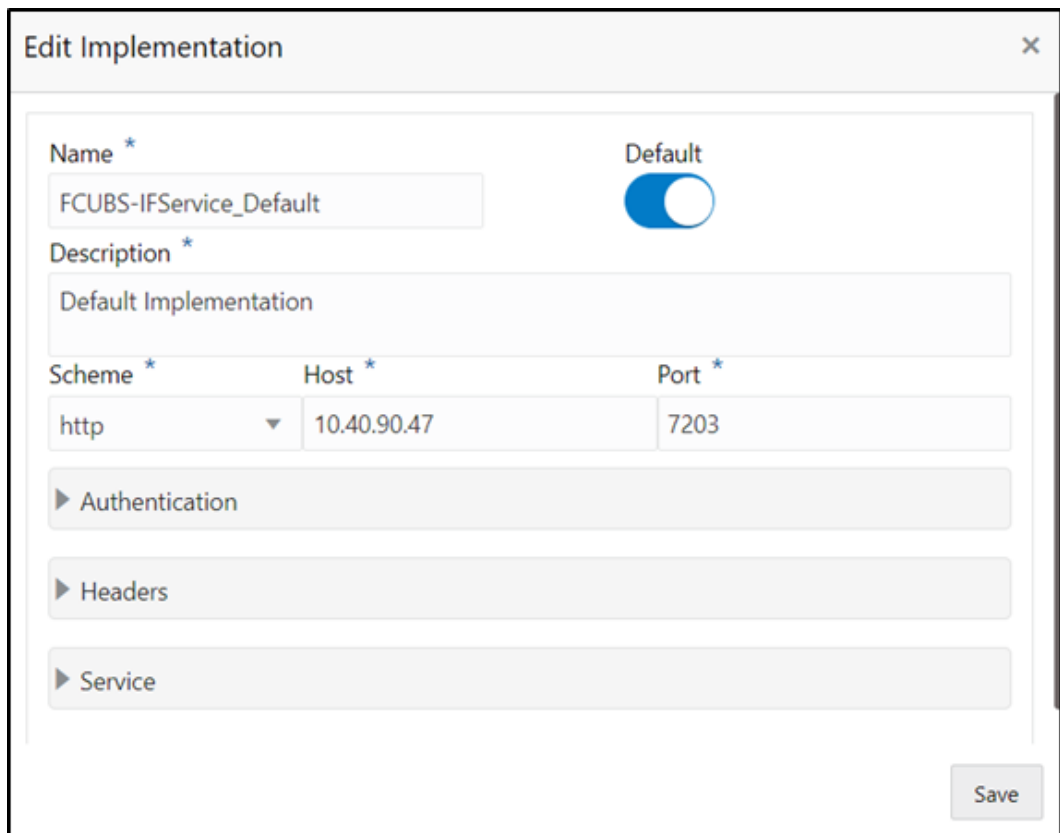
The **Service Consumer** screen appears.

Figure 1-7 Service Consumers Screen



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

Figure 1-8 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.

- [Oracle Banking Virtual Account Management](#)
This topic describes the configure of consumer service for Oracle Banking Virtual Account Management.

1.5.1 Oracle Banking Virtual Account Management

This topic describes the configure of consumer service for Oracle Banking Virtual Account Management.

1. Select **BALANCEQUERY** from Consumer Services.

The **Consumers Service List** screen appears

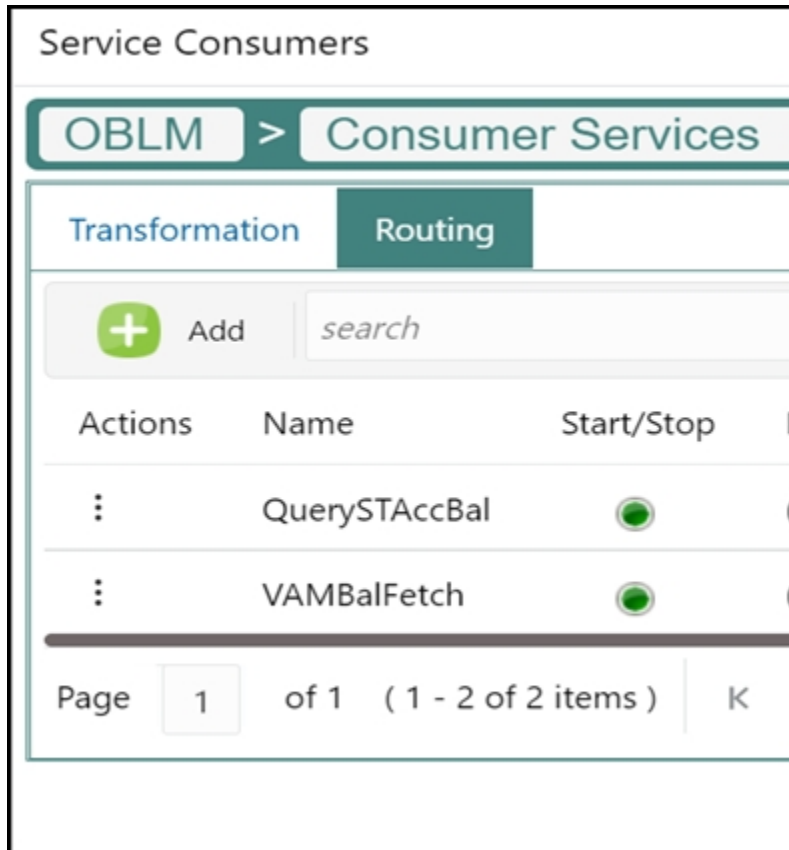
Figure 1-9 Consumers Service List

| Actions | Name | Description |
|---------|-----------------------|--------------------------------------|
| ⋮ | CreateEcablk | CreateEcablk |
| ⋮ | CloseEcablk | CloseEcablk |
| ⋮ | CreateRTLResponse | CreateRTLResponse |
| ⋮ | PMRftOutService | Request for transfer - MT101 |
| ⋮ | ACCOUNTHANDOFF | DDA account handoff |
| ⋮ | BALANCEQUERY | Account balance query service |
| ⋮ | PMSinglePayOutService | Cross Border payment service - MT103 |

Page 1 of 1 (1 - 7 of 7 items) | K < 1 > X

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

Figure 1-10 Routing Menu



3. Under the **Transformation** tab, click **Action** icon of **OBVAM-BalanceService** and then click **Edit**

The **Edit Route** screen appears.

Figure 1-11 Edit Route

Start/Stop
Auto Shutdown

Default Rule
 Custom Rule

Transformations

| Actions | Product Processor | Implementation | Transformation |
|---------|---------------------------|------------------------------|----------------|
| : | OBVAM-BalanceService 14.5 | OBVAM-BalanceService_Default | T2 |

- Click **Action** icon and Click **Edit** to edit the headers.
The **Edit Transformation** screen appears.

Figure 1-12 Edit Transformation

OBVAM-BalanceService 14.5
 OBVAM-BalanceService_Default

Transformation *

Headers

| Actions | Name | Value |
|---------|--------------|------------------|
| : | Content-Type | application/json |
| : | userId | SIVA01 |
| : | branchCode | 000 |
| : | entityId | DEFAULTENTITY |
| : | appld | VAM |

- Repeat the steps 2 to 4 to add headers for **OBVAM ACCOUNTIGHANDOFF**.

2

Integration Services

This topic describes about the integration services of 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 Oracle Banking Liquidity Management.
- [Oracle Banking Virtual Account Management Integration](#)
This topic provides the integration account management for Oracle Banking Virtual Account Management.
- [Oracle Banking Digital Experience Integration](#)
This topic provides the integration of digital experience for Oracle FLEXCUBE Universal Banking.
- [Oracle Banking Routing Hub - RTL Integration](#)
This topic provides the RTL integration for Oracle Banking Routing Hub.
- [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

| SI.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 |
| 3 | FCUBS | http://host:port/ FCUBSTDSservice/ FCUBSTDSservice?WSDL | TD Contract Hand-Off | Service API which is used for Investment Sweep - TD to FCUBS |

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

| Sl.No | Provider System | Service URL | Service Description | Remarks |
|-------|-----------------|---|-------------------------|--|
| 4 | FCUBS | http://host:port/ FCUBSMMSservice/ FCUBSMMSservice?WSDL | MM Contract Hand-Off | Service API which is used for Investment Sweep - MM to FCUBS |
| 5 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | CreateEcablK | Service API which is used for Create RTL blocks request |
| 6 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | CreateExtAcc EcaEntries | Service API which is used for Accounting Hand off to FCUBS RTL |
| 7 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | CreateRTLResponse | Service API which is used for RTL status update |
| 8 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | initiateRtlTxn | Service API which is used for Initiate RTL Block |
| 9 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | modifyRtlTxn | Service API which is used for Modify RTL Block |
| 10 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | undoRtl | Service API which is used for Undo RTL block |
| 11 | FCUBS | http://host:port/ FCUBSCASservice/ FCUBSCASservice?WSDL | postRtl | Service API which is used for Post RTL block |

2.2 Payments Integration

This topic describes about the payment integration Oracle Banking Liquidity Management.

Table 2-2 Payments Integration

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

| Sl.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 |
| 4 | "PmtInf_PmtTpInf_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_OrgId_Othr_Prtry" : "", | Debtor ID Organisation ID proprietary |
| 9 | "PmtInf_Dbtr_PstlAdr" : [], | Debtor postal address |
| 10 | "PmtInf_PmtTpInf_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_OrgId_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 |

Table 2-3 (Cont.) PMSinglePayOutService

| Sl.no | Tag Name | Tag Description |
|-------|--|--|
| 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_CustCrDtRflnitAddInf_BeneficiaryInst" : "", | Beneficiary Institution |
| 38 | "PmtInf_CustCrDtRflnitAddInf_BeneficiaryInst_BICFI" : null, | Beneficiary Institution BICFI |
| 39 | "PmtInf_CustCrDtRflnitAddInf_BeneficiaryInst_PstlAdr" : [], | BeneficiaryInst Institution Postal Address |
| 40 | "PmtInf_CustCrDtRflnitAddInf_BeneficiaryInstAcct_Id_Othr" : "", | Beneficiary Institution account ID |
| 41 | "PmtInf_CustCrDtRflnitAddInf_BeneficiaryInstAcct_Id_Othr_Id" : "", | Beneficiary institution account -> Other -> Identification |
| 42 | "PmtInf_CustCrDtRflnitAddInf_SndrToRcvrInfo" : [], | Sender to receiver Info |
| 43 | "PmtInf_CustCrDtRflnitAddInf_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

| Sl.no | Tag Name | Tag description |
|-------|---|------------------|
| 1 | "RftOutCreatelOType_referenceno" : "100770783", | Reference number |
| 2 | "RftOutCreatelOType_hostcode" : "DUBLIN_I", | Host code |
| 3 | "RftOutCreatelOType_branchcode" : "TEL", | branch code |

Table 2-4 (Cont.) PMRftOutService

| Sl.no | Tag Name | Tag description |
|-------|---|------------------------------|
| 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 |
| 13 | "RftOutCreateIOType_tag30" : "2021-09-21", | Requested Execution Date |
| 14 | "RftOutCreateIOType_tag25" : "12222321", | Authorisation |
| 15 | "RftOutCreateIOType_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

| Sl.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 Digital Experience Integration

This topic provides the integration of digital experience for Oracle FLEXCUBE Universal Banking.

Table 2-6 Oracle Banking Digital Experience Integration

| S.No | Consumer System | Service URL | Service Description | Remarks |
|------|-----------------|---|--|---|
| 1 | OBDX | http://host:port/api-gateway/oblm-maintenance-services/account?isNotional=N&customerId={customerId} | (GET) API to fetch Internal accounts | {customerId} – replace with actual customerId |
| 2 | OBDX | http://host:port/api-gateway/oblm-maintenance-services/branch | (GET) API to fetch Branch details | - |
| 3 | OBDX | http://host:port/api-gateway/oblm-cash-concentration-services/instruction | (GET) API to fetch Instruction Details | - |

Table 2-6 (Cont.) Oracle Banking Digital Experience Integration

| S.No | Consumer System | Service URL | Service Description | Remarks |
|------|-----------------|--|---|---|
| 4 | OBDX | http://host:port/api-gateway/oblm-maintenance-services/frequency | (GET) API to fetch Frequency Details | - |
| 5 | OBDX | http://host:port/api-gateway/oblm-maintenance-services/currency | (GET) API to fetch Currency details | - |
| 6 | OBDX | http://host:port/api-gateway/oblm-structure-services/structure?customerid={customerid} | (GET) API to fetch structure details | {customerid} – replace with actual customerid |
| 7 | OBDX | http://host:port/api-gateway/oblm-structure-services/structure/{id}?customerid={customerid}&version=latest | (GET) API to fetch latest version of structure based on keyID | {customerid} – replace with actual customerid {id} – ID of structure which needs to be fetched |
| 8 | OBDX | http://host:port/api-gateway/oblm-sweep-services/sweepmonitor?customerid={customerid}&bookDateTo={bookDateTo}&bookDateFrom={bookDateFrom}&structureid={structureid} | (GET) API to fetch Sweep Logs for structures | Date format for bookDateFrom and bookDateTo is YYYY-MM-DD {structureid} – Structureid for which sweep log is fetched |
| 9 | OBDX | http://host:port/api-gateway/oblm-dashboard-services/scheduledsweeps?fromDate={fromDt}&toDate={toDt}&customerid={customerid} | (GET) API to fetch Upcoming structures Sweep | Date format for fromDate and toDate is YYYY-MM-DD |
| 10 | OBDX | http://host:port/api-gateway/oblm-pool-services/pool/log?customerid={customerid}&bookDateTo={bookDateTo}&bookDateFrom={bookDateFrom}&structureid={structureid}&filterBy={status} | (GET) API to fetch Pool structure logs | - |
| 11 | OBDX | http://host:port/api-gateway/oblm-sweep-services/sweep-service/execute-sweep-obdx | (POST) API to execute structure sweep manually | Refer to Oracle Banking Digital Experience section in Request Payload Samples for sample request payload |

Table 2-6 (Cont.) Oracle Banking Digital Experience Integration

| S.No | Consumer System | Service URL | Service Description | Remarks |
|------|-----------------|--|--|---|
| 12 | OBDX | http://host:port/api-gateway/oblm-structure-services/structure/createExternal | (POST) API to create Structure | Refer to Oracle Banking Digital Experience section in Request Payload Samples for sample request payload |
| 13 | OBDX | http://host:port/api-gateway/oblm-structure-services/structure/modifyExternal | (POST) API to Modify Structure | Refer to Oracle Banking Digital Experience section in Request Payload Samples for sample request payload |
| 14 | OBDX | {{HOST}}/api-gateway/vamlm-charge-services/service/chargeInquiry?fromDate={{date}}&toDate={{date}}&applicationCode=LMCHG&realCustomerNo={{customernumber}} | (GET) API to fetch charge details | - |
| 15 | OBDX | {{HOST}}/api-gateway/vamlm-charge-services/service/chargedefinition | (GET) API to get all valid chargedefinition. This endpoint will be used to Get all valid chargedefinition maintenance records. | - |

2.5 Oracle Banking Routing Hub - RTL Integration

This topic provides the RTL integration for Oracle Banking Routing Hub.

Table 2-7 RTL Integration

| S.No | Provider System | Service URL | Service Description | Remarks |
|------|-----------------|---|--|--|
| 1 | OBRH | http://host:port/FCUBSIFService/FCUBSIFService?WSDL | CreateExtAccEcaEnteries | Service API which is used for Post RTL Blocks |
| 2 | OBRH | http://host:port/FCUBSCAService/FCUBSCAService?WSDL | CloseEcabl, CreateRTLResponse, CreateEcabl | Service API which is used for initiate Undo and Post RTL blocks. |
| 3 | OBRH | http://host:port/FCUBSTDSERVICE/FCUBSTDSERVICE?WSDL | CreateTDCustomerAcFS | Service API which is used to create term deposit customer account. |

Table 2-7 (Cont.) RTL Integration

| S.No | Provider System | Service URL | Service Description | Remarks |
|------|-----------------|---|------------------------|--|
| 4 | OBRH | http://host:port/ OBTRMMService/ OBTRMMService?WSDL | CreateMMContra ctFS | Service API which is used to create money market contract. |

 **Note:**

Update the configuration with required host and port to connect with the required Oracle FLEXCUBE Universal Banking environment.

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>$fcubheader.source</SOURCE>
        <UBSCOMP>FCUBS</UBSCOMP>
        <USERID>$fcubheader.userid</USERID>
        <BRANCH>$fcubheader.branch</BRANCH>
        <MODULEID>PX</MODULEID>
        <SERVICE>PMRftOutService</SERVICE>
        <OPERATION>CreateRftOut</OPERATION>
        <DESTINATION>FCUBS</DESTINATION>
      </FCUBS_HEADER>
      <FCUBS_BODY>
        <Master-IO>
          <REFNO>$fcubbody.masterIO.refno</REFNO>
          #foreach($extSysAccountDetails in $fcubbody.masterIO.input)
            <Input>
              <ACCNO>$.tag57AWIOPT</ACCNO>
              <TRNDT>$.tag57AWIBIC</TRNDT>
              <BALANCETYPE>$.tag59ACC</BALANCETYPE>
            </Input>
          #end
        </Master-IO>
      </FCUBS_BODY>
    </FCUBS_REQ_ENV>
  </soapenv:Body>
</soapenv:Envelope>
```

```

        </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.fcyamt</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>${fcubscopy.msgOut101IO.referenceno}</
REFERENCE_NO>
            <HOST_CODE>${fcubscopy.msgOut101IO.hostcode}</HOST_CODE>
            <BRANCH_CODE>${fcubscopy.msgOut101IO.branchcode}</BRANCH_CODE>
            <CUSTOMER_NO>${fcubscopy.msgOut101IO.customerno}</CUSTOMER_NO>
            <RECEIVER>${fcubscopy.msgOut101IO.receiver}</RECEIVER>
            <TAG28D_MSGINX>${fcubscopy.msgOut101IO.tag28DMSGINX}</
TAG28D_MSGINX>
            <TAG28D_MSGTOT>${fcubscopy.msgOut101IO.tag28DMSGTOT}</
TAG28D_MSGTOT>
            <TAG50_ORD_OPT>${fcubscopy.msgOut101IO.tag50ORDOPT}</
TAG50_ORD_OPT>
            <TAG50_ORD_ACC>${fcubscopy.msgOut101IO.tag50ORDACC}</
TAG50_ORD_ACC>
            <TAG50_ORD_ADD1>${fcubscopy.msgOut101IO.tag50ORDADD1/add1}</
TAG50_ORD_ADD1>
            <TAG50_ORD_ADD2>${fcubscopy.msgOut101IO.tag50ORDADD2}</
TAG50_ORD_ADD2>
            <TAG50_ORD_ADD3>${fcubscopy.msgOut101IO.tag50ORDADD3}</
TAG50_ORD_ADD3>
            <TAG30>${fcubscopy.msgOut101IO.tag30}</TAG30>
            <TAG25>${fcubscopy.msgOut101IO.tag25}</TAG25>
            <SOURCE_CODE>$.</SOURCE_CODE>
            #foreach($msgoutdetails in ${fcubscopy.msgOut101IO.msgOut101Detail})
            <Msg-Out101-Detail>
                <TAG57_AWI_OPT>${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:NbOfTxes>$fcubsbody.cstmrCdtTrfInitn.grpHdr.nbOfTxes</pms:NbOfTxes>

<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>$fcubsbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.svcLvl.cd</pms:Cd>
  </pms:SvcLvl>
  <pms:CtgyPurp>
<pms:Cd>$fcubsbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.ctgyPurp.cd</pms:Cd>
  </pms:CtgyPurp>
  </pms:PmtTpInf>
<pms:ReqdExctnDt>$fcubsbody.cstmrCdtTrfInitn.pmtInf.reqdExctnDt</
pms:ReqdExctnDt>
  <pms:Dbtr>
    <pms:Nm>$fcubsbody.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.c
d</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>${fcubscopybody.cstmrcdtTrfInitn.pmtInf.cdtTrfTxInf.pmtId.instr
Id</pms:InstrId>
<pms:EndToEndId>${fcubscopybody.cstmrcdtTrfInitn.pmtInf.cdtTrfTxInf.pmtId.en
dToEndId</pms:EndToEndId>
        </pms:PmtId>
        <pms:Amt>
        <pms:InstdAmt
Ccy="USD">${fcubscopybody.cstmrcdtTrfInitn.pmtInf.cdtTrfTxInf.amt.instdAmt</
pms:InstdAmt>
                <pms:EqvtAmt/>
        </pms:Amt>
        <pms:CdtrAgt/>
        <pms:CdtrAgtAcct>
        <pms:Id>
        <pms:Othr/>
        </pms:Id>
        </pms:CdtrAgtAcct>
        <pms:Cdtr>
<pms:Nm>${fcubscopybody.cstmrcdtTrfInitn.pmtInf.cdtTrfTxInf.cdtr.nm</pms:Nm>
        <pms:PstlAdr/>
        </pms:Cdtr>
        <pms:CdtrAcct>
        <pms:Id>
        <pms:Othr>
<pms:Id>${fcubscopybody.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",
    "allowMbccAccountPair": "N",
    "mode": "A",
    "structureList": [
        {
            "structureId": "ST202171674444516010503",
            "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",
      "structurePriority": 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,
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  "accountNumber": "HEL0046400178",
  "parentAccountNumber": null,
  "accCategory": "Sweep",
  "parentAccountCurrency": null
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  "accountCurrency": "GBP",
  "bookingAccountCurrency": "GBP",
  "rateType": "STANDARD",
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  "structureMasterId": "",
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      "structurePriority": 1
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    "LmmTmStructureInstructionDetDTO": [
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        "paramValue": "4000"
      },
      {
        "structureInstructionId": "",
        "paramName": "MaximumDeficit",
        "paramValue": "1000"
      }
    ]
  }
]

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            "paramName": "Minimum",
            "paramValue": "1"
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        "paramName": "MinimumDeficit",
        "paramValue": "100"
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        "paramName": "Multiple",
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"structureId": "STG5MWB4PS39",
"multiBankFlag": true,
"centralAccountBranch": null,
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"interestMethod": "I",
"effectiveDate": "2018-07-19"
}
]
}

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Modify Sweep Structure

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      "makerDateStamp": "2018-11-30T11:12:24.000+00:00",
      "checkerId": "OBDX02",
      "checkerDateStamp": "2018-11-30T11:12:24.000+00:00",
      "modNo": 1,
      "recordStatus": "O",
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      "doerRemarks": null,
      "approverRemarks": null,
      "links": [],
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      "structureDescription": "Sweep 19721",
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    "parentAccountCurrency": "GBP",
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        "paramValue": "#TO_AMOUNT"
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    "paramValue": "INIT"
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    "paramValue": "#EXT_TRANSACTION_NO"
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    "paramValue": "#TO_ACC_CCY"
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        "paramValue": "#FROM_ACC"
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        "paramValue": "#AVAILBALREQD"
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        "paramValue": "#TO_ACC_LCY"
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        "paramValue": "#TO_FCY_AMOUNT"
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      "paramValue": "000"
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      "paramValue": "#TO_ACC"
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      "paramValue": "#FROMAC_LCYAMOUNT"
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        "paramValue": "#FROM_ACC_CCY"
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        "paramValue": "INIT"
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        "paramValue": "#TO_ACC_LCY"
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    {
        "id": "4621dbd6-00f6-4159-8198-a4affc299d69",
        "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
        "paramName": "ENTITY_ID",
        "paramValue": "#ENTITY_ID"
    },
    {
        "id": "a1d7ebdd-62e4-4890-b4cc-847be38a84eb",
        "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
        "paramName": "AVAILBALREQD",
        "paramValue": "#AVAILBALREQD"
    },
    {
        "id": "6a4ae0c7-9459-44c5-905a-131d0f1d28fe",
        "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
```

```
da89b940ffe9",
    "paramName": "TRNDT",
    "paramValue": "#LOG_TIME"
  },
  {
    "id": "b772d21e-59ea-46aa-a162-ab16fae5dcd1",
    "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
    "paramName": "FROM_ACC",
    "paramValue": "#FROM_ACC"
  },
  {
    "id": "96549e49-65af-47b6-89a5-e13550d6ca43",
    "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
    "paramName": "EVENTSRNO",
    "paramValue": "1"
  },
  {
    "id": "1bf32b00-a7f7-4b78-be6a-51cb583653b9",
    "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
    "paramName": "FROM_ACC_LCY",
    "paramValue": "#FROM_ACC_LCY"
  },
  {
    "id": "bb4417ad-1ea0-47b5-8fee-be027bb9b962",
    "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
    "paramName": "TO_ACC_BRANCH",
    "paramValue": "#TO_ACC_BRANCH"
  },
  {
    "id": "ca076ed5-a313-4fce-90dd-99c8c93d59ca",
    "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
    "paramName": "LCYAMOUNT",
    "paramValue": "#TO_AMOUNT"
  },
  {
    "id": "b0bfba49-be88-456f-bc12-1948c031d210",
    "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
    "paramName": "FCYAMOUNT",
    "paramValue": "#TO_FCY_AMOUNT"
  }
]
}
],
"LmmTmStructureAccPriorityDTO": [],
"LmmTmStrRevSweepDetailsDTO": [],
```

```
    "LmmTmStructureIclDTO": []
  },
{
  "id": "87d8762d-7127-4064-8eca-17f70d25584a",
  "structureMasterId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
  "accountNumber": "HEL0046400178",
  "accountDescription": "HEL0046400178",
  "branchCode": "HEL",
  "accountCurrency": "GBP",
  "isExternal": "Internal",
  "acyAvailableBal": 1000000,
  "bankCode": "0020",
  "countryId": "AUS",
  "cityId": "Sydney",
  "region": "Australia/Adelaide",
  "latitude": -33.92,
  "longitude": 151.1852,
  "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 XXXXXX",
"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 XXXXXX",
        "LmmTmStructureInstructionDTO": [],
```

```
    "LmmTmStructurePaymentDTO": [],
    "LmmTmStructureAccPriorityDTO": [],
    "LmmTmStrRevSweepDetailsDTO": [],
    "LmmTmStructureIclDTO": []
  },
  {
    "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": [],
        "LmmTmStructureIclDTO": []
    }
],
"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 XXXXXX"
    },
    {
        "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 XXXXXX"
    }
  ]
}}
}

```

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"
},
"isActive": "Y",
"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.

Refer to the **REST API Documentation** for the inbound API details.

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 | structure-created | Event is generated when a structure is created | Structure Events |
| 6 | structure-created and Authorized | Event is generated when a structure is created and authorized | |
| 7 | structure-modified | Event is generated when a structure is modified | |
| 8 | structure-modified and Authorized | Event is generated when a structure is modified and authorized | |
| 9 | structure-closed | Event is generated when a structure is closed | |
| 10 | structure-closed and Authorized | Event is generated when a structure is closed and authorized | |
| 11 | structure-reopen | Event is generated when a structure is reopened | |
| 12 | structure-reopen and Authorized | Event is generated when a structure is reopened and authorized | |
| 13 | structure-expiry | Event is generated when a structure is expired | |
| 14 | vamlm.bankchargeeventrequest | Event is generated when Bank is authorized | Vamlm Account |
| 15 | vamlm.branchchargeeventrequest | Event is generated when Branch is authorized | |
| 16 | vamlm.structurechargesnotification | Event is generated when Structure is authorized | |
| 17 | vamlm.pricingmapnotification | Event is generated when Customer is authorized | |

Table 4-1 (Cont.) List of Events

| S.No | Topic | Purpose | Avro Schema |
|------|-----------------------------|---|-------------------------------|
| 18 | lm.accountnotification | Event is generated when account is authorized | |
| 19 | lm.vamlmaccountnotification | This is a consumer topic for LM to auto create customer/account, which consumes events published by VAM on creation of customer/account | |
| 20 | lmx_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 a facility to generate the advices using a template created in Apache FOP Oracle Banking Liquidity Management.

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 plato-config-deploy.env 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 Save in the directory: /scratch/oblm/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.xml |
| OBLM-Interest-Reallocation-Advice | Interest Reallocation Advice.xml |
| OBLM-Simulation-Sweep-Advice | Simulation Sweep Report.xml |
| OBLM-Simulation-Pool-Advice | Simulation Pool Advice.xml |



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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