

Oracle® Banking Liquidity Management Cloud Service Integration Guide



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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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Diversity and Inclusion

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.
<code>monospace</code>	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.

- [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 Service Providers

This topic provides the information about the Service Providers.

Oracle Banking Liquidity Management Service Providers.

Figure 1-1 Service Providers

Service Consumers		
OBLM		
Service Providers Consumer Services		
Add Import Search		
FCUBS_TermDeposit	OBPM-PMRftOutService	OBPM-PMSinglePayOutService
Version 14.5	Version 14.4	Version 14.4
Type EXTERNAL	Type EXTERNAL	Type EXTERNAL
Status ACTIVE	Status ACTIVE	Status ACTIVE
TEST_PRODUCT	FCUBS_IFSERVICE	FCUBSCAService
Version 123	Version 14.5	Version 14.5
Type INTERNAL	Type EXTERNAL	Type EXTERNAL
Status ACTIVE	Status ACTIVE	Status ACTIVE
TEST	FCUBS_IFSERVICE	FCUBS-CPGServicesBookTransfer
Version 11	Version 14.4	Version 14.4
Type INTERNAL	Type EXTERNAL	Type EXTERNAL
Status ACTIVE	Status ACTIVE	Status ACTIVE
OBTR_MoneyMarket		
Version 14.5		
Type EXTERNAL		
Status ACTIVE		

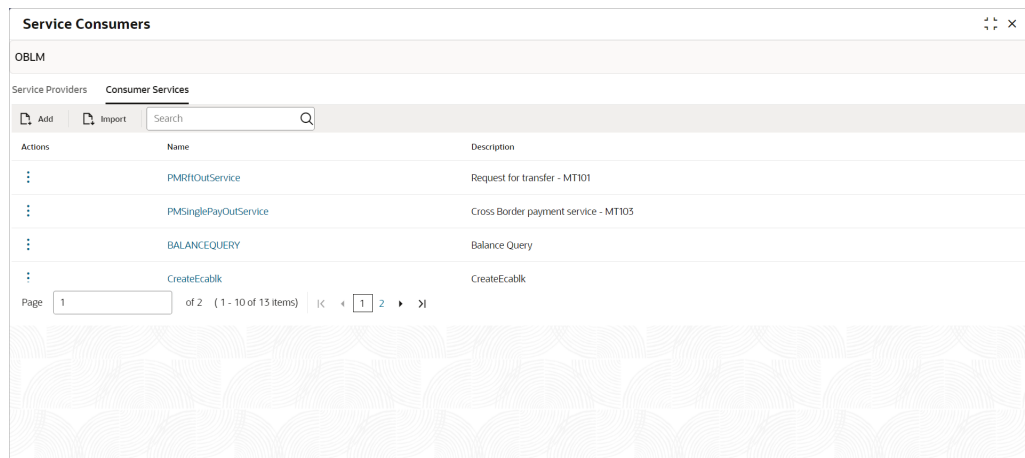
Page 1 of 2 (1 - 10 of 15 items) |< 1 2 >|

1.2 Consumer Services

This topic provides the information about the Consumer Services.

Oracle Banking Liquidity Management Consumer Services.

Figure 1-2 Consumer Service



The screenshot shows the 'Service Consumers' interface. At the top, there's a header 'Service Consumers' with a search icon. Below it, a tab 'Consumer Services' is selected. A search bar is present. The main area is a table with columns 'Actions', 'Name', and 'Description'. The table lists four services: PMRfOutService, PMSinglePayOutService, BALANCEQUERY, and CreateEscablk. Each row has a vertical ellipsis in the Actions column. At the bottom, there's a pagination bar showing 'Page 1 of 2 (1 - 10 of 13 items)' and navigation icons.

Actions	Name	Description
⋮	PMRfOutService	Request for transfer - MT101
⋮	PMSinglePayOutService	Cross Border payment service - MT103
⋮	BALANCEQUERY	Balance Query
⋮	CreateEscablk	CreateEscablk

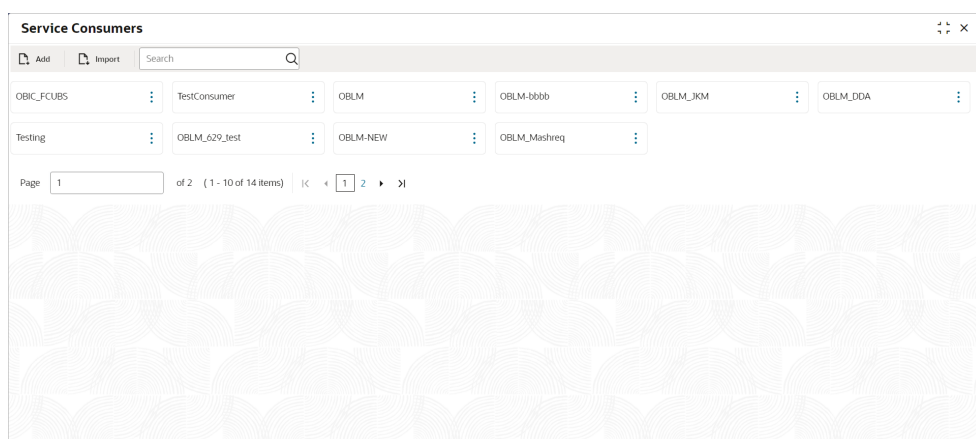
1.3 Configure Service Providers

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

1. Click on consumer **OBLM**.

The **Service Consumers** screen appears.

Figure 1-3 Consumer OBLM



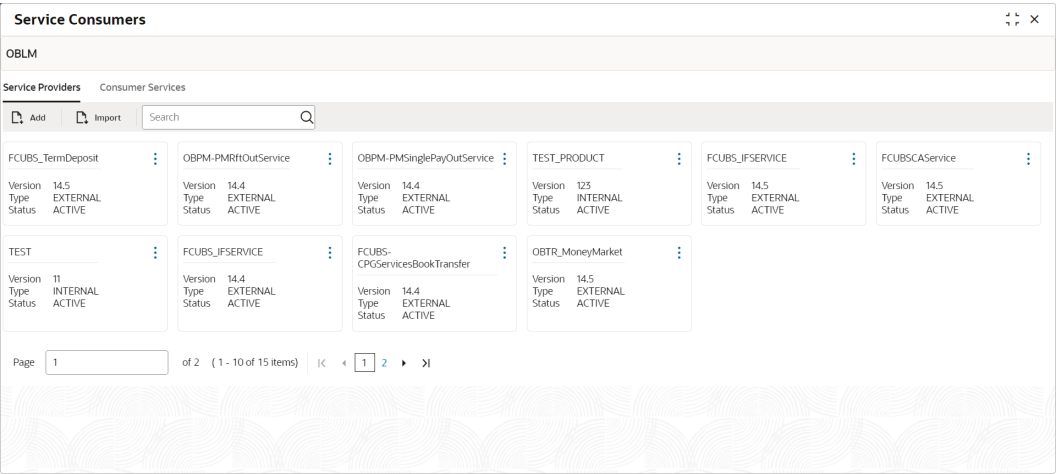
The screenshot shows the 'Service Consumers' interface with a grid of service providers. The grid has two rows and six columns. The first row contains: OBLM_FCUBS, TestConsumer, OBLM, OBLM-bbbb, OBLM_JKM, and OBLM_DDA. The second row contains: Testing, OBLM_629_test, OBLM-NEW, and OBLM_Mushreq. Each cell has a vertical ellipsis in its right corner. At the bottom, there's a pagination bar showing 'Page 1 of 2 (1 - 10 of 14 items)' and navigation icons.

OBLM_FCUBS	TestConsumer	OBLM	OBLM-bbbb	OBLM_JKM	OBLM_DDA
Testing	OBLM_629_test	OBLM-NEW	OBLM_Mushreq		

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

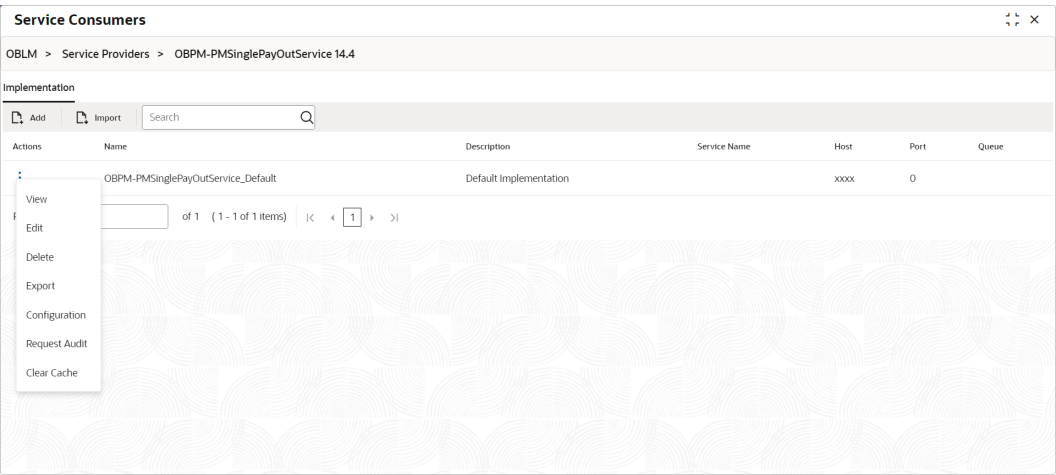
The **OBLM Service Provides** screen appears.

Figure 1-4 OBLM Service Providers



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..**

1.4 Configuring Consumer Services

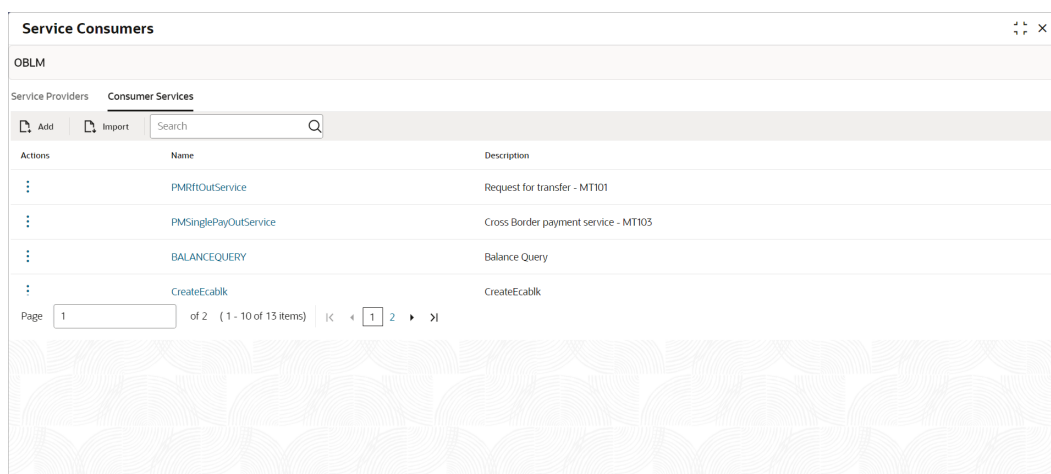
This topic describes the configure the Consumer Services for Oracle Banking Liquidity Management.

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

1.4.1 Oracle Banking Liquidity Management

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

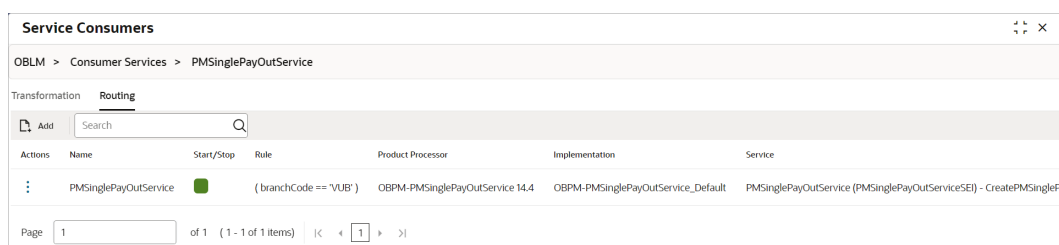
1. Select **BALANCEQUERY** from Consumer Services.
The **Consumers Service List** screen appears

Figure 1-7 Consumers Service List

Service Consumers		
OBLM		
Service Providers Consumer Services		
Add Import Search		
Actions	Name	Description
⋮	PMRTIOUService	Request for transfer - MT101
⋮	PMSinglePayOutService	Cross Border payment service - MT103
⋮	BALANCEQUERY	Balance Query
⋮	CreateEcablk	CreateEcablk

Page 1 of 2 (1 - 10 of 13 items) |< 1 2 >|

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

Figure 1-8 Routing Menu

Service Consumers						
OBLM > Consumer Services > PMSinglePayOutService						
Transformation Routing						
Add Search						
Actions	Name	Start/Stop	Rule	Product Processor	Implementation	Service
⋮	PMSinglePayOutService	■	(branchCode == 'VUB')	OBPM-PMSinglePayOutService 14.4	OBPM-PMSinglePayOutService_Default	PMSinglePayOutService (PMSinglePayOutServiceSEI) - CreatePMSingleP

Page 1 of 1 (1 - 1 of 1 items) |< 1 >|

- Under the **Transformation** tab, click **Action** icon of **OBVAM-BalanceService** and then click **Edit**.
The **Edit Route** screen appears.

Figure 1-9 Edit Route

Edit Route

Name: PMSinglePayOutService

Start/Stop: START STOP

Auto Shutdown: ☒

☒ Default Rule ☐ Custom Rule

Transformations

Add

Actions	Product Processor	Implementation	Transformation
⋮	OBPM-PMSinglePayOutService 14.4	OBPM-PMSinglePayOutService_Default	PMSinglePayC

Save

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

Figure 1-10 Edit Transformation

Edit Transformation

Name: PMSinglePayOutService

Active: ☒

Product Processor: OBPM-PMSinglePayOutService

Implementation: OBPM-PMSinglePayOutService

Service: PMSinglePayOutService (PMSir)

- > Service
- > Headers
- > Request Transformation
- > Response Headers
- > Response Transformation

Save

- 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

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
3	FCUBS	http://host:port/ FCUBSTDService/ FCUBSTDService?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	CreateRTLRe sponse	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	OBPayment s	http://host:port/ PMRftOutService / PMRftOutService?WSDL	Transfer Request-MT101	Service API which is used for MT101 Initiation Request
2	OBPayment s	http://host:port/ PMSinglePayOutService/ PMSinglePayOutService?WSDL	Payment Initiation-MT103	Service API which is used for MT103 Initiation Request
3	OBPayment s	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" : "COLD",	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

Vamlm 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 fromDt and toDt 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	CloseEcablk, CreateRTLResponse, CreateEcablk	Service API which is used for initiate Undo and Post RTL blocks.
3	OBRH	http://host:port/FCUBSTDService/FCUBSTDService?WSDL	CreateTDCustAcctFS	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	CreateMMContractFS	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>${fcubshheader.source}</SOURCE>
        <UBSCOMP>FCUBS</UBSCOMP>
        <USERID>${fcubshheader.userid}</USERID>
        <BRANCH>${fcubshheader.branch}</BRANCH>
        <MODULEID>PX</MODULEID>
        <SERVICE>PMRftOutService</SERVICE>
        <OPERATION>CreateRftOut</OPERATION>
        <DESTINATION>FCUBS</DESTINATION>
      </FCUBS_HEADER>
      <FCUBS_BODY>
        <Master-IO>
          <REFNO>${fcubtbody.masterIO.refno}</REFNO>
          #foreach($extSysAccountDetails in ${fcubtbody.masterIO.input})
            <Input>
              <ACCNO>$.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.drcrind</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.txnAmt</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>$fcubshheader.source</pms.SOURCE>
    <pms.UBSCOMP>FCUBS</pms.UBSCOMP>
    <pms.MSGID>$fcubshheader.msgid</pms.MSGID>
    <pms.CORRELID></pms.CORRELID>
    <pms.USERID>$fcubshheader.userid</pms.USERID>
    <pms.BRANCH>$fcubshheader.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>$fcubshheader.sourceuserid</
pms.SOURCE_USERID>
    <pms.DESTINATION>$fcubshheader.destination</pms.DESTINATION>
    <pms.MULTITRIPID>$fcubshheader.multitripid</pms.MULTITRIPID>
    <pms.FUNCTIONID>$fcubshheader.functionid</pms.FUNCTIONID>
    <pms.ACTION>$fcubshheader.action</pms.ACTION>
    <pms.PASSWORD>$fcubshheader.password</pms.PASSWORD>
  </FCUBS_HEADER>
<FCUBS_BODY>
  <pms:CstmrCdtTrfInitn>
    <pms:GrpHdr>
      <pms:MsgId>$fcubsbbody.cstmrCdtTrfInitn.grpHdr.msgId</pms:MsgId>
<pms:CreDtTm>$fcubsbbody.cstmrCdtTrfInitn.grpHdr.creDtTm</pms:CreDtTm>

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

<pms:NbOfTxes>$fcubsbbody.cstmrCdtTrfInitn.grpHdr.nbOfTxes</pms:NbOfTxes>

<pms:InitgPty>$fcubsbbody.cstmrCdtTrfInitn.grpHdr.initgPty</pms:InitgPty>
    </pms:GrpHdr>
    <pms:PmtInf>
<pms:PmtInfId>$fcubsbbody.cstmrCdtTrfInitn.pmtInf.pmtInfId</pms:PmtInfId>
    <pms:PmtMtd>$fcubsbbody.cstmrCdtTrfInitn.pmtInf.pmtMtd</
pms:PmtMtd>
    <pms:PmtTpInf>
<pms:InstrPrty>$fcubsbbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.instrPrty</
pms:InstrPrty>
    <pms:SvcLvl>
<pms:Cd>$fcubsbbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.svcLvl.cd</pms:Cd>
    </pms:SvcLvl>
    <pms:CtgyPurp>
<pms:Cd>$fcubsbbody.cstmrCdtTrfInitn.pmtInf.pmtTpInf.ctgyPurp.cd</pms:Cd>
    </pms:CtgyPurp>
    </pms:PmtTpInf>
<pms:ReqdExctnDt>$fcubsbbody.cstmrCdtTrfInitn.pmtInf.reqdExctnDt</
pms:ReqdExctnDt>
    <pms:Dbtr>
      <pms:Nm>$fcubsbbody.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:Othr>
        </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",
            "structurePriority": 25,
            "fxRatePickup": "Offline",
            "headerCurrency": "GBP",
            "reallocationMethod": "No Reallocation",
            "maxBackwardDays": 2,
            "LmmTmStructureDetailsDTO": [

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{
  "reverseSweepFrequency": null,
  "percentageShare": 0,
  "accountCurrency": "GBP",
  "bookingAccountCurrency": "GBP",
  "rateType": "STANDARD",
  "isTwoWay": "Y",
  "structureMasterId": "",
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  "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
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{
  "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": [
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            "frequencyId": "FM2341112",
            "structureInstructionId": "",
            "freqDesc": null
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    ],
    "instructionId": "TEST22"
}
],
"isExternal": "Internal",
"accountType": "Sweep",
"accountLevel": 1,
"branchCode": "HEL",
"isNotional": "N",
"reallocationMethod": null,
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"sweepPriority": 1,
"bookingAccountBranch": "HEL",
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"isNominatedAccount": "Y",
"accountNumber": "HEL0046400067",
"parentAccountNumber": "HEL0046400178",
"accCategory": "Sweep",
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"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Sweep 19721",
"systemAccountCurrency": null,
"systemAccountBranch": null,
"LmmTmStructureAccountsDTO": [
    {
        "isExternal": "Internal",
        "accountCurrency": "GBP",

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        "accountNumber": "HEL0046400178",
        "isNotional": "N",
        "isSelected": "Y",
        "accCategory": "Sweep",
        "accountBranch": "HEL"
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    {
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        "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"
}
]
}
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Modify Sweep Structure

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{
  "data": [
    {
      "keyId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
      "makerId": "OBDX02",
      "makerDateStamp": "2018-11-30T11:12:24.000+00:00",
      "checkerId": "OBDX02",
      "checkerDateStamp": "2018-11-30T11:12:24.000+00:00",
      "modNo": 1,
      "recordStatus": "O",
      "authStatus": "A",
      "onceAuth": "Y",
      "doerRemarks": null,
      "approverRemarks": null,
      "links": [],
      "structureId": "STG5MWB4PS39",
      "structureDescription": "Sweep 19721",
      "customerId": "000464",
      "customerName": "XXX XXXXXX",
      "numberOfAccountsLinked": 2,
      "structureType": "Sweep",
    }
  ]
}
```

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"struturePriority": 25,
"effectiveDate": "2018-07-19",
"endDate": "2022-07-01",
"headerAccountNumber": "HEL0046400178",
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"headerCurrency": "GBP",
"multiBankFlag": "N",
"crossBorderFlag": "N",
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"balanceType": "V",
"structureFrequency": null,
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"allowSweepOnCurrencyHol": "Y",
"interestMethod": "I",
"ratePickUp": "Previous Day Rate",
"nextRunDate": null,
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"reverseFrequency": null,
"instructionType": null,
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"holidayTreatment": "P",
"maxBackwardDays": 2,
"backwardTreatment": "N",
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"centralAccountBranch": null,
"centralAccountCurrency": null,
"nextRunDateReverse": null,
"prevRunDateReverse": null,
"structureStatus": "A",
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"limitTrackingFlag": null,
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"systemAccountNumber": null,
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"pauseEndDate": "2021-10-01",
"action": "NEW",
"versionNo": 1,
"isSimulation": "N",
"simulationId": null,
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"revFreqEodExecution": null,
"revFreqBodExecution": null,
"isDirty": "Y",
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    "id": "988509491913613315",
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        "structureMasterId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
        "structureId": "STG5MWB4PS39",
        "structurePriority": 1
    }
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        "accountNumber": "HEL0046400067",
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        "accountCurrency": "GBP",
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        "longitude": 151.1852,
        "isNotional": "N",
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        "parentAccountBranch": "HEL",
        "parentAccountCurrency": "GBP",
        "bookingAccountNumber": "HEL0046400067",
        "bookingAccountBranch": "HEL",
        "bookingAccountCurrency": "GBP",
        "rateType": "STANDARD",
        "accountType": "Sweep",
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        "isHold": null,
        "eodExecution": null,
        "ratePickUp": null,
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        "accountLevel": 1,
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        "centralAccountBranch": null,
        "centralAccountCurrency": null,
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        "holdEndDate": null,
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"oneWayAccountGroup": null,
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"entityName": "HEL_ENTITY_NAME",
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    "structureDetailsId": "1883ba34-0575-4177-8422-c52616c3bab4",
    "instructionId": "TEST22",
    "instrDesc": "Zero Balance Model",
    "instructionPriority": 1,
    "suspensionStartDate": null,
    "suspensionEndDate": null,
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        "structureInstructionId":
"2c83f188-240f-4e79-9fc6-452e00bf5f47",
        "frequencyId": "FM2341112",
        "freqDesc": "FM2341112"
      }
    ],
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        "paramValue": "100"
      },
      {
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        "paramValue": "10"
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        "paramValue": "4000"
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        "paramName": "Minimum",
        "paramValue": "1"
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  }
]

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],
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    "interfaceMasterId": "2b274af6-2f1f-4892-b1c5-
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            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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            "paramName": "LCYAMOUNT",
            "paramValue": "#TO_AMOUNT"
        },
        {
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            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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            "paramValue": "#FROM_ACC_LCY"
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            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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            "paramName": "MODULE",
            "paramValue": "DE"
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            "paramName": "AMOUNTTAG",
            "paramValue": "TXN_AMT1"
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        {
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            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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            "paramValue": "#FROM_ACC_BRANCH"
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            "id": "2683bbdb-20d2-41ba-b3ae-1b82abcce776",

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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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      "paramValue": "#TOAC_FCYAMT"
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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      "paramName": "EVENT",
      "paramValue": "INIT"
    },
    {
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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      "paramName": "TRNREFNO",
      "paramValue": "#EXT_TRANSACTION_NO"
    },
    {
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
      "paramName": "FROM_ACC_CCY",
      "paramValue": "#FROM_ACC_CCY"
    },
    {
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
      "paramName": "TO_ACC_CCY",
      "paramValue": "#TO_ACC_CCY"
    },
    {
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
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      "paramValue": "#TO_ACC_BRANCH"
    },
    {
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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      "paramName": "EVENTSRNO",
      "paramValue": "1"
    },
    {
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      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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      "paramName": "VALUEDT",
      "paramValue": "#VALUE_DT"
    },
    {
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        "paramValue": "#FROM_ACC"
    },
    {
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        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
        "paramName": "TOAC_LCYAMT",
        "paramValue": "#TOAC_LCYAMT"
    },
    {
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        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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        "paramName": "AVAILBALREQD",
        "paramValue": "#AVAILBALREQD"
    },
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d02cb56fc226",
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        "paramValue": "#ENTITY_ID"
    },
    {
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        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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        "paramName": "TRNDT",
        "paramValue": "#LOG_TIME"
    },
    {
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        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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        "paramName": "TO_ACC_LCY",
        "paramValue": "#TO_ACC_LCY"
    },
    {
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        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
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        "paramName": "FCYAMOUNT",
        "paramValue": "#TO_FCY_AMOUNT"
    },
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        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
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        "paramValue": "#FROMAC_FCYAMOUNT"
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    }
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d02cb56fc226",
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            "paramValue": "#FX_RATE"
        },
        {
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            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "TRNCODE",
            "paramValue": "000"
        },
        {
            "id": "d1646dcc-b60e-452c-9f22-3198ade9a63b",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "TO_ACC",
            "paramValue": "#TO_ACC"
        },
        {
            "id": "2cf58a66-2895-48c5-9474-34168e487190",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "FROMAC_LCYAMOUNT",
            "paramValue": "#FROMAC_LCYAMOUNT"
        }
    ]
},
{
    "id": "9df0c2e5-4667-4ef7-adb1-da89b940ffe9",
    "structureDetailsId": "1883ba34-0575-4177-8422-c52616c3bab4",
    "sweepDirection": "Oneway",
    "interfaceMasterId": "2b274af6-2f1f-4892-b1c5-bc0f3e75ea09",
    "LmmTmStructurePaymentDetailDTO": [
        {
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            "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
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            "paramName": "MODULE",
            "paramValue": "DE"
        },
        {
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            "paramName": "TOAC_FCYAMT",
            "paramValue": "#TOAC_FCYAMT"
        },
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            "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
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        "paramValue": "#FROMAC_LCYAMOUNT"
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da89b940ffe9",
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        "paramValue": "#FX_RATE"
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        "paramValue": "#VALUE_DT"
    },
    {
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        "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
        "paramName": "TRNREFNO",
        "paramValue": "#EXT_TRANSACTION_NO"
    },
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        "paramValue": "#FROM_ACC_CCY"
    },
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        "paramName": "TOAC_LCYAMT",
        "paramValue": "#TOAC_LCYAMT"
    },
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        "paramValue": "#TO_ACC"
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        "paramValue": "000"
    },
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        "paramValue": "#FROM_ACC_BRANCH"
    },
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        "paramValue": "INIT"
    },
    {
        "id": "1ff6d74f-8488-4da6-9a75-3c34d0b92614",
        "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
        "paramName": "TO_ACC_LCY",
        "paramValue": "#TO_ACC_LCY"
    },
    {
        "id": "722ba682-75db-40da-83d1-a498ed696682",
        "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
        "paramName": "AMOUNTTAG",
        "paramValue": "TXN_AMT1"
    },
    {
        "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": [],

```

```
    "ImmTmStructureIclDTO": []
  },
{
  "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",
  }
]
}

```

```
"struturePriority": 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",
      "struturePriority": 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,
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  }
}
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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:

- [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 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-Simulation-Sweep-Advice	Simulation Sweep Report.xsl
OBLM-Simulation-Pool-Advice	Simulation Pool Advice.xsl



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.

6.2 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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