

Oracle® Banking Liquidity Management 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.

Documentation Accessibility

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Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

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 user 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 user enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

1

Steps to configure Service Providers for Oracle Banking Liquidity Management

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

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

- [Initial Setup](#)
This topic describes the initial setup process for Configuring 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 explains how to set up the Consumer Services for Oracle Banking Liquidity Management.

1.1 Initial Setup

This topic describes the initial setup process for Configuring for Oracle Banking Liquidity Management Service Providers.

To set up the Oracle Banking Routing Hub, please adhere to the following steps:

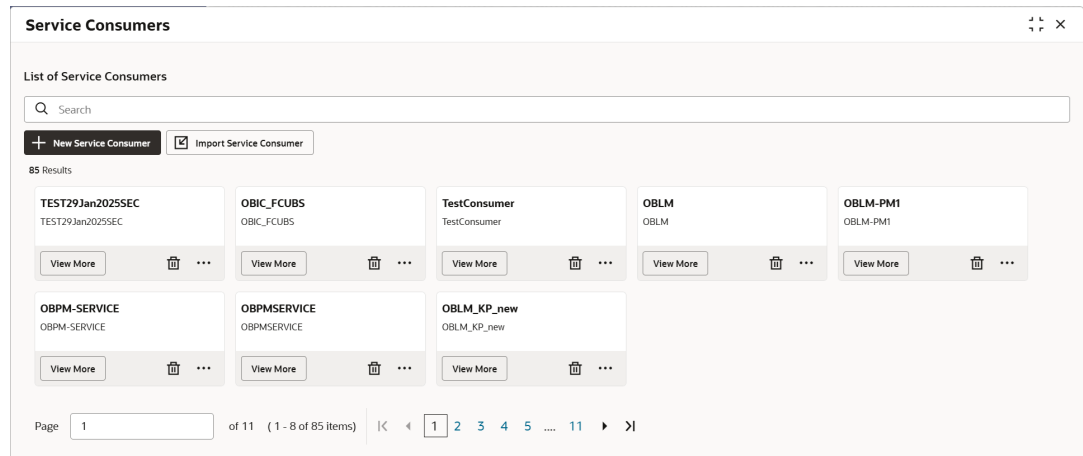
1. Download the [OBLM Consumer.json](#) configuration file in case it is not done during installation setup.

Note

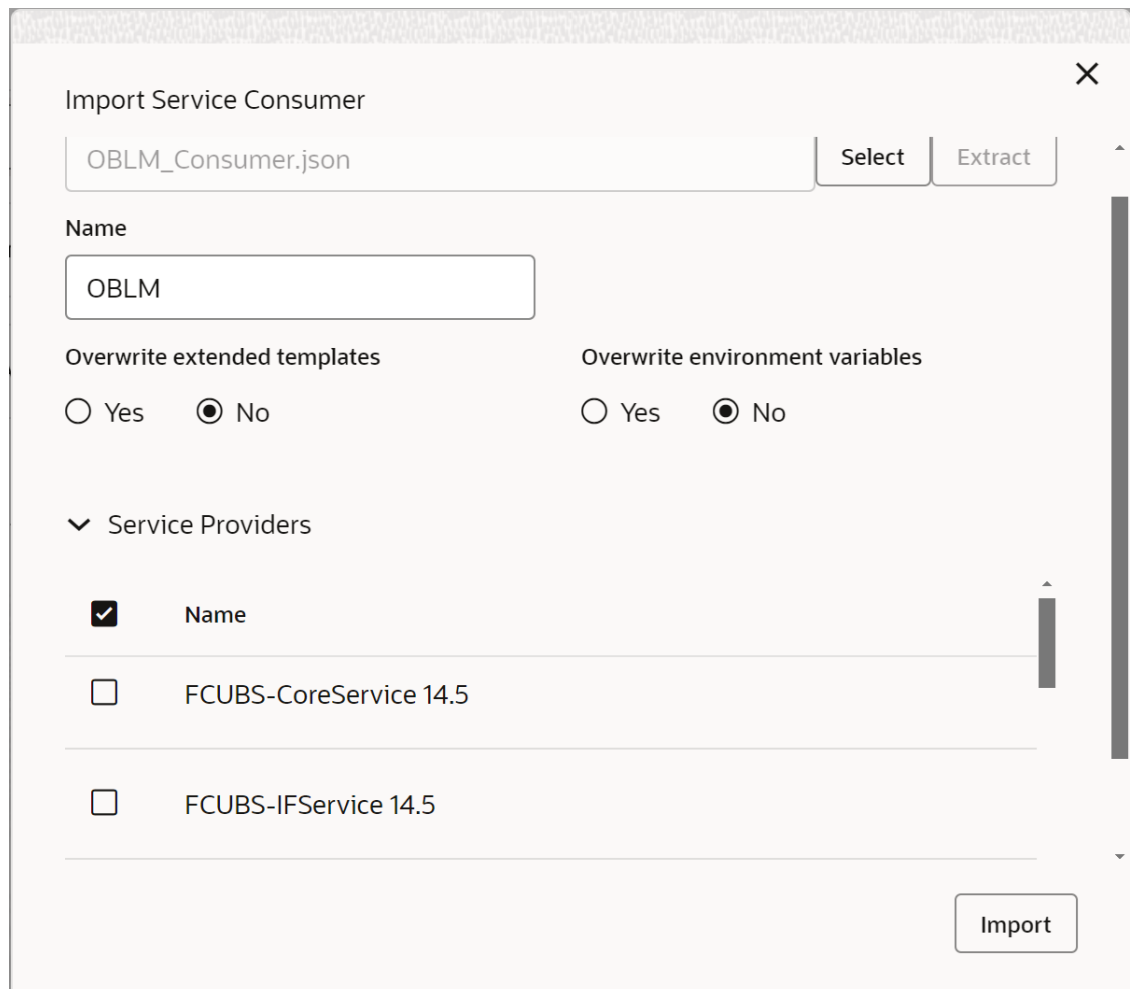
Ignore below steps 3 & 4 if the files that are already imported during installation.

2. On **Home** screen, click **Interconnect**. Under **Interconnect**, click **Routing Hub**
3. Under **Routing Hub**, click **Service Consumers**.

The **Service Consumers** screen displays.

Figure 1-1 Service Consumers

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

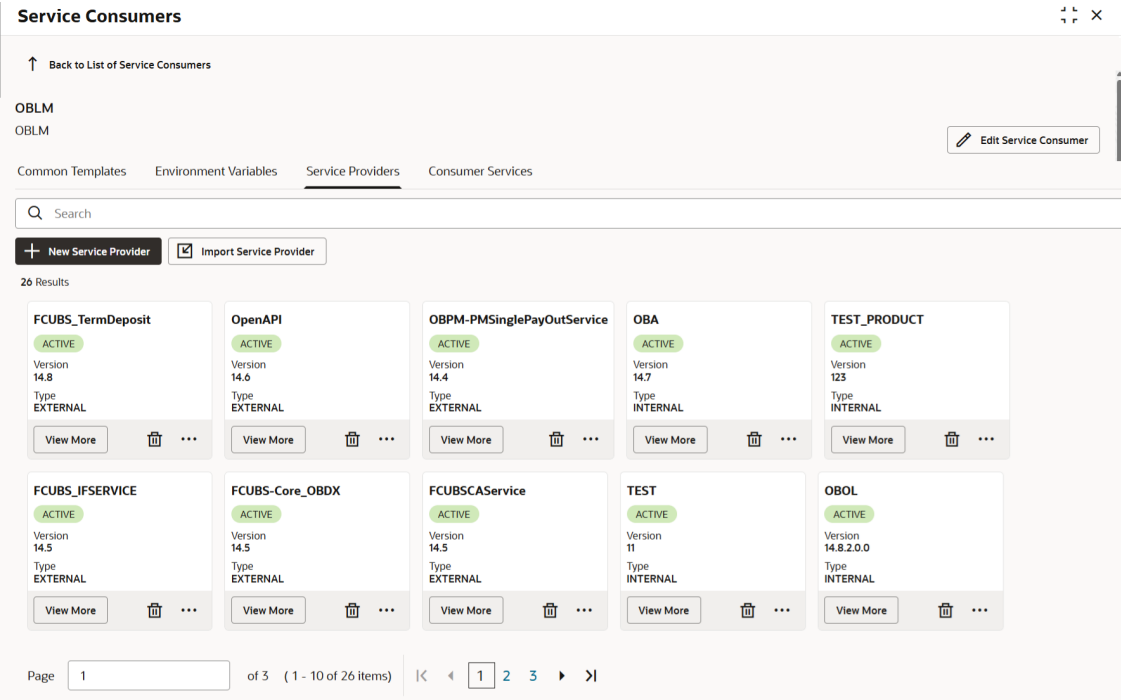
Figure 1-2 Import Service Consumer

1.2 Service Providers

This topic provides the information about the Service Providers.

Oracle Banking Liquidity Management Service Providers.

Figure 1-3 Service Providers

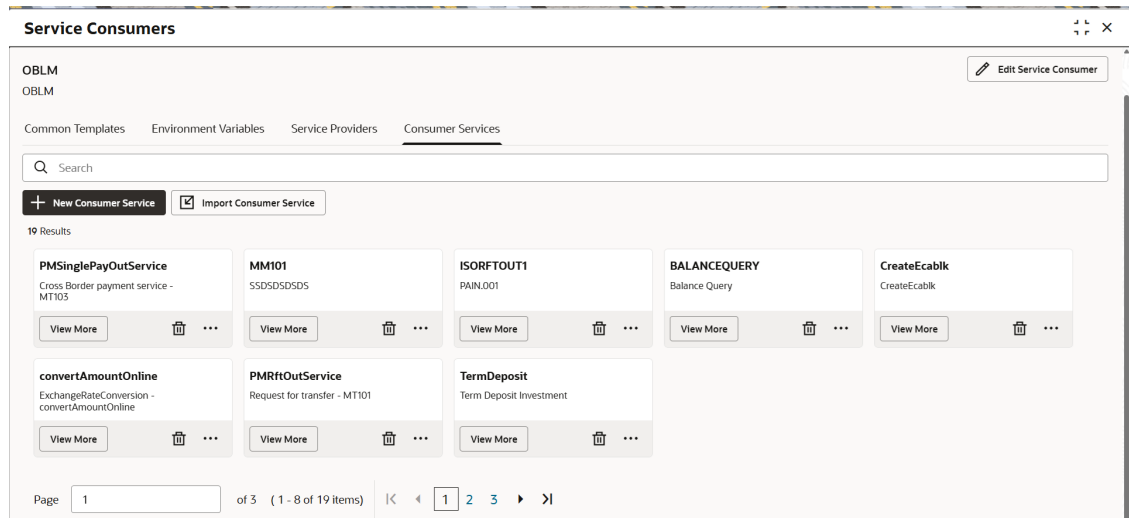


1.3 Consumer Services

This topic provides the information about the Consumer Services.

Oracle Banking Liquidity Management Consumer Services.

Figure 1-4 Consumer Service



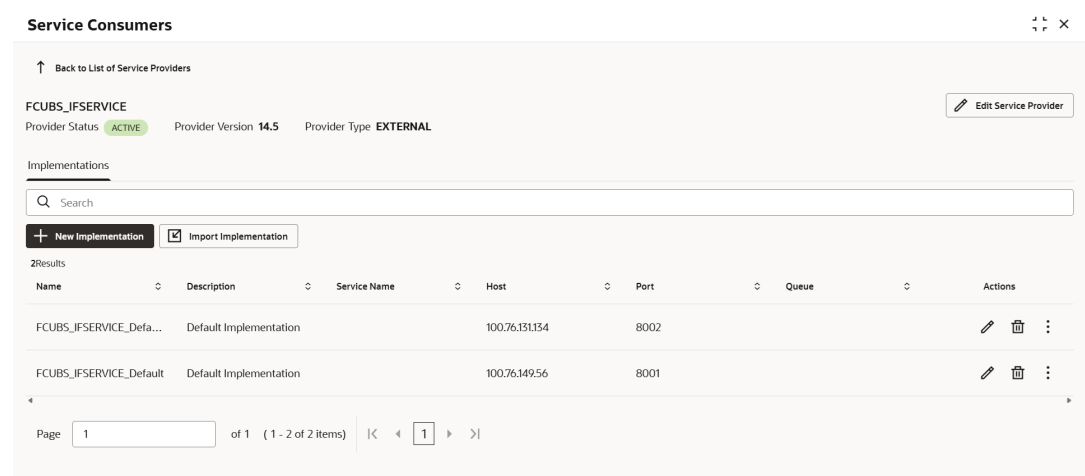
1.4 Configure Service Providers

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

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

The **Service Consumer** screen displays.

Figure 1-5 Service Consumers Screen



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

Figure 1-6 Edit Implementation

Service Consumers

↑ Back to List of Service Providers

FCUBS_IFSERVICE
Provider Status: **ACTIVE** Provider Version: **14.5** Provider Type: **EXTERNAL**

Implementations

Search

+ New Implementation ☒ Import Implementation

2 Results

Name	Description	Service Name	Host
FCUBS_IFSERVICE_Def...	Default Implementation		100.76.131.134
FCUBS_IFSERVICE_Default	Default Implementation		100.76.14

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

Edit Implementation

Implementation Details (1/4)

Implementation Name: FCUBS_IFSERVICE_Default_new12

Implementation Description: Default Implementation

Implementation Type: Default

Scheme: http

Host: 100.76.131.134

Port: 8002

URL Prefix To Strip:

Use WSDL details (scheme, host and port) for SOAP service invocation: ☐

Use Proxy: ☐

Next Step

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 explains how to set up the Consumer Services for Oracle Banking Liquidity Management.

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

The **Service Consumers - Transformation** screen displays.

Figure 1-7 Consumers Service List

Service Consumers

↑ Back to List of Consumer Services

BALANCEQUERY
Balance Query

Transformation Routing

Search

+ New Transformation Import Transformation

7 Results

Name	Product Processor	Implementation	Service	Actions
OpenAPI_Transformation	OpenAPI 14.6	OpenAPI_Default	http://openapi-service/fetch	
T2	FCUBS-core 14.4	FCUBS-core_Default	FCUBSCoreService (FCUBSCoreServi...	
OBABalanceFetch	OBA 14.7	OBA_Default	/obcdda-pp-transaction-balance-se...	
VAM	OBVAM 14.7	OBVAM_Default	/service/balance	
T3	FCUBS-Core 14.5	FCUBS-Core_Default	FCUBSCoreService (FCUBSCoreServi...	
OBABalanceQuery	OBA 14.7	OBA_Default	/obcdda-pp-transaction-batch-servi...	
FCUBSBalanceQuery-148	FCUBSCoreService148 14.8	FCUBSCoreService148_Default	FCUBSCoreService (FCUBSCoreServi...	

Page 1 of 1 (1 - 7 of 7 Items)

- In the **Service Consumers** screen, click **Routing** tab.
The **Routing Menu** screen displays.

Figure 1-8 Routing Menu

Service Consumers

↑ Back to List of Consumer Services

BALANCEQUERY
Balance Query

Transformation Routing

Search

+ New Route

5 Results

Name	Rule Expression	Product Processor	Implementation	Transformation	State	Actions
R1_NEW	(branchCode != 'MM2')...	FCUBS-Core 14.5	FCUBS-Core_Default	T3	START	
OpenAPI_Route	(source == 'OpenAPI')	OpenAPI 14.6	OpenAPI_Default	OpenAPI_Transformation	START	
BalanceFetchRoute	(source == 'CDDAP') &...	OBA 14.7	OBA_Default	OBABalanceFetch	START	
VAM_Route	(source == 'OBVAM')	OBVAM 14.7	OBVAM_Default	VAM	STOP	
BalanceQueryRoute	(source == 'CDDAP') &...	OBA 14.7	OBA_Default	OBABalanceQuery	STOP	

Page 1 of 1 (1 - 5 of 5 Items)

- In the **Action** column, click **Edit** icon.
The **Edit Route** screen displays.

Figure 1-9 Edit Route

✕

<

Routing Details (1/2)

>

Name

BalanceQueryRoute

State

Start

Stop

Auto Shutdown

☐

Rule

☐ Default
 ☒ Custom

Expression

(source == 'CDDAP') && (balanceType == 'VALUEDT')

+

✕

<input type="checkbox"/>	Attribute	Operator	Value	Condition Type	
<input type="checkbox"/>	source	==	'CDDAP'	&&	
<input type="checkbox"/>	balanceType	==	'VALUEDT'		

Page 1 of 1 (1-2 of 2 items)

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Next Step

6. In the **Edit Route** screen, click **Next Step** to edit the transformation.
The **Transformations** screen displays.
7. Select the record to edit the transformation.
The **Edit Route - Transformations** screen displays.

Figure 1-10 Edit Transformation

Edit Route

×

<

Transformations (2/2)

>

+

🗑

<input type="checkbox"/>	Product Processor	Implementation	Transformation
<input checked="" type="checkbox"/>	OBA 14.7	OBA_Default	OBABalanceQuery

Page 1 of 1 (1 of 1 items)

|<

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1

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>|

Product Processor

OBA 14.7

Implementation

OBA_Default

Transformation

OBABalanceQuery

Header Name	Header Value	
branchCode	\$env.OBA_GROUP.branchCode	✎
entityID	\$env.OBA_GROUP.entityID	✎
userId	\$env.OBA_GROUP.userId	✎
Content-Type	\$env.OBA_GROUP.ContentType	✎
appld	CDDAPPTBSAPP	✎

Page 1 of 1 (1-5 of 5 items)

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

2

Outbound API calls through Oracle Banking Routing Hub

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

This topic contains the following sub-topics:

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

2.1 Oracle FLEXCUBE Universal Banking Integration

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

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

Table 2-1 List of Integration Services

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

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

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

2.2 Payments Integration

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

Table 2-2 Payments Integration

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

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

2.2.1 Message Mapping for OBRH

This topic describes about the Messages mapped for OBRH.

Table 2-3 PMSinglePayOutService

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

Table 2-3 (Cont.) PMSinglePayOutService

Sl.no	Tag Name	Tag Description
4	"PmtInf_PmtTplnf_SvcLvl_Cd" : "SDVA",	Service level code
5	"CtgyPurp_Cd" : "INTC",	Category purpose code
6	"PmtInf_DbtrAgt_BICFI" : "ABPUNE12XB1",	Debtor Agent BICFI
7	"PmtInf_DbtrAgtAcct_Id_Othr_Id" : "7252",	Debtor agent Account ID
8	"PmtInf_Dbtr_Id_Orgld_Othr_Prtry" : "",	Debtor ID Organisation ID proprietary
9	"PmtInf_Dbtr_PstlAdr" : [],	Debtor postal address
10	"PmtInf_PmtTplnf_InstrPrty" : "HIGH",	Payment Type information- Instruction Priority
11	"PmtInf_DbtrAcct_Ccy" : "",	Debtor Account Currency
12	"PmtInf_DbtrAcct_Id_IBAN" : "AT483200000012345864",	Debtor IBAN
13	"PmtInf_DbtrAcct_Id_Othr_Id" : "MAXACC",	Debtor Details --> Debtor Account Number
14	"PmtInf_Dbtr_Id_Orgld_Othr_Id" : "ACHC0ID03",	Debtor ID ->Organisation-> other-> ID
15	"PmtInf_chrgBr_cd" : "OUR",	Main Tab --> Charge Bearer
16	"PmtInf_PmtMtd" : "TRF",	Payment Method
17	"PmtInf_Dbtr_Nm" : "MAXACC",	Main Tab --> Debtor Name
18	"CdtTrfTxInf_PmtId_InstrId" : "100770645",	Instruction Identification
19	"CdtTrfTxInf_Cdtr_PstlAdr_AdrLine3" : "",	Postal Address
20	"CdtTrfTxInf_Amt_InstdAmt_Ccy" : "GBP",	Instructed amount currency
21	"CdtTrfTxInf_Cdtr_Nm" : "OBS32412144",	Creditor name
22	"CdtTrfTxInf_Amt_InstdAmt_value" : 125,	Instructed amount
23	"CdtTrfTxInf_Cdtr_PstlAdr_AdrLine2" : "",	Postal Address
24	"CdtTrfTxInf_Amt_EqvtAmt_CcyOfTrf" : "",	Equivalent Amount Currency of Transfer
25	"CdtTrfTxInf_IntrMyagt1_BICFI" : null,	Intermediary Agent
26	"CdtTrfTxInf_IntrMyagt1_PstlAdr" : [],	Intermediary Agent Postal address
27	"CdtTrfTxInf_CdtrAgtAcct_BICFI" : "",	Creditor Agent Account Bank identifier code
28	"CdtTrfTxInf_CdtrAgtAcct_Id_Othr" : "",	Creditor Agent Account number
29	"CdtTrfTxInf_Amt_EqvtAmt_value" : "",	Equivalent amount value
30	"CdtTrfTxInf_CdtrAgt_BICFI" : "STRBIC00",	Creditor agent BICFI
31	"CdtTrfTxInf_CdtrAgt_PstlAdr" : [],	Creditor agent postal address
32	"CdtTrfTxInf_Cdtr_PstlAdr" : null,	Creditor Postal Address
33	"CdtTrfTxInf_PmtId_EndToEndId" : "100770645",	Payment Identification End to End Identification
34	"CdtTrfTxInf_Amt_EqvtAmt_Ccy" : "",	Equivalent amount currency
35	"CdtTrfTxInf_CdtrAcct_Id_Othr_Id" : "",	Creditor account identification
36	"CdtTrfTxInf_CdtrAgt_Nm" : "CdtrAgt Name Test",	Creditor Agent Name
37	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst" : "",	Beneficiary Institution
38	"PmtInf_CustCrDtRfInitAddInf_BeneficiaryInst_BICFI" : null,	Beneficiary Institution BICFI

Table 2-3 (Cont.) PMSinglePayOutService

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

Table 2-4 PMRftOutService

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

Table 2-4 (Cont.) PMRftOutService

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

Table 2-5 PMISORftOutService

Sl.no	Tag Name	Tag description
1	orderingcustaddress1 : #FROM_ADDR_LINE1	Ordering customer address line 1
2	orderingcustaddress2 : #FROM_ADDR_LINE2	Ordering customer address line 1
3	orderingcustaddress3 : #FROM_ADDR_LINE3	Ordering customer address line 1
4	orderingcustaddress4 : #FROM_ADDR_LINE4	Ordering customer address line 1
5	executiondate : #VALUE_DT	Transaction value date
6	OBLM_REF_NO : #OBLM_REF_NO	Unique sender reference no
7	beneficiaryname : #TO_CUSTOMER_NAME	Beneficiary name
8	beneficiaryaccount : #TO_ACC_IBAN	Beneficiary account
9	beneficiaryaddress1 : #TO_ADDR_LINE1	Beneficiary address line 1
10	beneficiaryaddress2 : #TO_ADDR_LINE2	Beneficiary address line 2
11	beneficiaryaddress3 : #TO_ADDR_LINE3	Beneficiary address line 3
12	beneficiaryaddress4 : #TO_ADDR_LINE4	Beneficiary address line 4
13	EXT_TRANSACTION_NO : #EXT_TRANSACTION_NO	Unique external transaction no
14	FROMAC_ENTRY_TYPE : #FROMAC_ENTRY_TYPE	Debit/Credit

Table 2-5 (Cont.) PMISORftOutService

Sl.no	Tag Name	Tag description
15	FROM_ACC_NO : #FROM_ACC_NO	Account no
16	FROM_ACC_IBAN : #FROM_ACC_IBAN	Account with Institution
17	FROM_BIC_CODE : #FROM_BIC_CODE	Bic code
18	FROM_ACC_BAL : #FROM_ACC_BAL	Child account balance
19	FROM_ACC_BRANCH : #FROM_ACC_BRANCH	Child account branch
20	FROM_ACC_DESC : #FROM_ACC_DESC	Child account description
21	FROM_ACC_CCY : #FROM_ACC_CCY	Child account currency
22	FROM_ACC_POST_BAL : #FROM_ACC_POST_BAL	Child account post sweep balance
23	FROM_AMOUNT : #FROM_AMOUNT	Child account sweep amount
24	FX_RATE : #FX_RATE	FxRate
25	IS_TWOWAY : #IS_TWOWAY	Sweep direction
26	LOG_TIME : #LOG_TIME	Sweep log time
27	TO_ACC : #TO_ACC	Parent account number
28	TO_ACC_NO : #TO_ACC_NO	Parent account number
29	TO_ACC_DESC : #TO_ACC_DESC	Parent account number description
30	TO_ACC_IBAN : #TO_ACC_IBAN	Iban account
31	TO_BIC_CODE : #TO_BIC_CODE	Bic code
32	TO_ACC_BAL : #TO_ACC_BAL	Sweep amount
33	TO_ACC_BRANCH : #TO_ACC_BRANCH	Parent account branch
34	TO_ACC_CCY : #TO_ACC_CCY	Parent account currency
35	TO_AMOUNT : #TO_AMOUNT	Sweep amount
36	TO_FCY_AMOUNT : #TO_FCY_AMOUNT	Sweep amount in account currency
37	FROM_ACC_LCY : #FROM_ACC_LCY	Sweep amount in local currency
38	TO_ACC_LCY : #TO_ACC_LCY	Sweep amount in local currency
39	FROMAC_FCYAMOUNT : #FROMAC_FCYAMOUNT	Sweep amount in child account currency
40	FROMAC_LCYAMOUNT : #FROMAC_LCYAMOUNT	Sweep amount in child account local currency
41	TOEXRATE : #TOEXRATE	Parent account exchange currency
42	FROMEXRATE : #FROMEXRATE	Child account exchange currency
43	FROM_HOST_CODE : #FROM_HOST_CODE	Host code
44	TO_HOST_CODE : #TO_HOST_CODE	Host code
45	FROM_CUSTOMER_NO : #FROM_CUSTOMER_NO	Child customer number
46	TO_CUSTOMER_NO : #TO_CUSTOMER_NO	Parent customer number
47	FROM_CUSTOMER_NAME : #FROM_CUSTOMER_NAME	Child customer name
48	TO_CUSTOMER_NAME : #TO_CUSTOMER_NAME	Parent customer name
49	CUSTOMER_NO : #CUSTOMER_NO	Customer number
50	TRNCODE : #TRNCODE	Transaction code

2.3 Oracle Banking Virtual Account Management Integration

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

Table 2-6 Oracle Banking Virtual Account Management Integration

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

VamIm Account Event:

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

2.4 Oracle Banking Accounts Integration

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

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

Table 2-7 List of Integration Services

SI.No	Provider System	Service URL	Service Description	Remarks
1	OBA	http://host:port/obcdda-pp-transaction-batch-services/service/v14.8.2.0.0/balancequery	Value Dated Balance Fetch	Service API which is used to Fetch Balance from OBA
2	OBA	http://host:port/obcdda-pp-transaction-balance-service/service/v14.8.1.0.0/transactions/accountings	Accounting Hand-off	Service API which is used for Accounting Hand off to OBA
3	OBA	http://host:port/obcdda-pp-transaction-balance-service/service/v14.8.1.0.0/transactions/amountBlocks	Amount Block	Service API which is used for amount blocks request
4	OBA	http://host:port/obcdda-pp-transaction-balance-service/service/v14.8.2.0.0/transactions/liquidity/response	Amount Block Status	Service API which is used for amount blocks status

Table 2-7 (Cont.) List of Integration Services

SI.No	Provider System	Service URL	Service Description	Remarks
5	OBA	http://host:port/obcdda-pp-transaction-balance-service/service/v14.8.2.0.0/transactions/amountBlocks/release	Undo Amount Block	Service API which is used to reverse the amount blocks request
6	OBA	http://host:port/obcdda-pp-transaction-balance-service/service/v14.8.2.0.0/balances/.search	Current Available Balance Fetch	Service API which is used to Fetch Balance from OBA
7	OBA	http://host:port/obcdda-pp-account-services/service/v14.8.2.0.0/accountservices/externalaccountvalidation	External Account Validation	Service API which is used to validate External Account

2.5 Oracle Banking Treasury Management Integration

This topic provides the integration for Oracle Banking Treasury Management.

Table 2-8 Oracle Banking Treasury Management Integration

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

2.6 Request Payload Samples

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

Oracle FLEXCUBE Universal Banking

Oracle FLEXCUBE Universal Banking Balance Fetch

```
<soapenv:Envelope
  xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'
  xmlns:fcub='http://fcubs.ofss.com/service/
FCUBSCoreService'><soapenv:Header/><soapenv:Body><QUERYSTACCBAL_IOFS_REQ
  xmlns='http://fcubs.ofss.com/service/FCUBSCoreService'>
  <FCUBS_HEADER>
  <SOURCE>OBLM</SOURCE>
  <UBSCOMP>FCUBS</UBSCOMP>
  <USERID>RAGHAV_AUTH</USERID>
  <BRANCH>$body.branchCode</BRANCH>
  <MODULEID>ST</MODULEID>
  <SERVICE>FCUBSCoreService</SERVICE>
  <OPERATION>QuerySTAccBal</OPERATION>
```

```

        <DESTINATION>FCUBS</DESTINATION>
    </FCUBS_HEADER>
    <FCUBS_BODY>
    <Master-IO>
    <REFNO>${body.refNo}</REFNO>
    #foreach($account in $body.accounts)
    <Input>
    <ACCNO>${account.accno}</ACCNO>
    <TRNDT>${account.trndt}</
TRNDT>
    #if(!$custom.isNull($account.balancetype))
    <BALANCETYPE>${account.balancetype}</
BALANCETYPE>
    #end
    <BRANCH>${account.branch}</BRANCH>
    </Input>
    #end
    </Master-IO>
    </FCUBS_BODY></QUERYSTACCBAL_IOFS_REQ></soapenv:Body></
soapenv:Envelope>

```

Oracle FLEXCUBE Universal Banking Accounting Handoff

```

<soapenv:Envelope
    xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'
    xmlns:fcub='http://fcubs.ofss.com/service/FCUBSCoreService'>
    <soapenv:Header/>
    <soapenv:Body>
    <CREATEEXTACCECAENTRIES_FSFS_REQ
    xmlns='http://fcubs.ofss.com/service/FCUBSIFService'>
    <FCUBS_HEADER>
    <SOURCE>EXTSYS</SOURCE>
    <UBSCOMP>FCUBS</UBSCOMP>
    <SYSTEM>FCUBS</SYSTEM>
    <MSGID>${body.messageId}</MSGID>
    <USERID>RAGHAV_AUTH</USERID>
    <BRANCH>${body.acentries[0].acBranch}</BRANCH>
    <MODULEID>IF</MODULEID>
    <SERVICE>FCUBSIFService</SERVICE>
    <OPERATION>CreateExtAccEcaEntries</OPERATION>
    <DESTINATION>FCUBS</DESTINATION>
    </FCUBS_HEADER>
    <FCUBS_BODY>
    <Acc-Entry-Master-Full>
    <UNIQUEEXTREFNO>${body.messageId}</UNIQUEEXTREFNO>
    <TRNREFNO>${body.messageId}</TRNREFNO>
    #foreach($acentry in $body.acentries)

    <Acc-Entry-Details>
    <DRCRIND>${acentry.drcrInd}</DRCRIND>
    <TRNREFNO>${body.messageId}</TRNREFNO>
    #if(!$custom.isNull($acentry.event))
    <EVENT>${acentry.event}</EVENT>
    #end
    <EXCHRATE>1</EXCHRATE>
    
```

```

<EVENTSRNO>${acentry.eventSrNo}</EVENTSRNO>
<VALUEDT>${acentry.valueDt}</VALUEDT>
#if (!$custom.isNull($acentry.module))
<MODULE>${acentry.module}</MODULE>
#end
#if (!$custom.isNull($acentry.amtTag))
<AMTTAG>${acentry.amtTag}</AMTTAG>
#end
<ACCCY>${acentry.acccy}</ACCCY>
#if (!$custom.isNull($acentry.fcyAmt))
<FCYAMT>${acentry.fcyAmt}</FCYAMT>
#end

<ACBRANCH>${acentry.acBranch}</ACBRANCH>
<ACNO>${acentry.acNo}</ACNO>
<LCYAMT>${acentry.lcyAmt}</LCYAMT>
<TRNCODE>000</TRNCODE>
</Acc-Entry-Details>
#end

<Acc-Mis/>
</Acc-Entry-Master-Full>
</FCUBS_BODY>
</CREATEEXTACCECAENTRIES_FSFS_REQ>
</soapenv:Body></soapenv:Envelope>

```

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>

```

```

        </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>
            </FCUBS_HEADER>

```

```

    <MSGSTAT>${body.msgStat}</MSGSTAT>
  </FCUBS_HEADER>
  <FCUBS_BODY>
    <Rtl-Queue-Full>
      <DDATXNREF>${body.ddaTxnRef}</DDATXNREF>
      <RTLREFERENCENO>${body.rtlReferenceNo}</RTLREFERENCENO>
      <TXNAMNT>${body.txnAmnt}</TXNAMNT>
      <TXNCCY>${body.txnCcy}</TXNCCY>
      <RTLSTATUS>${body.rtlStatus}</RTLSTATUS>
      <RTLSTATUSMESSAGE>${body.rtlStatusMessage}</RTLSTATUSMESSAGE>
    </Rtl-Queue-Full>
  </FCUBS_BODY>
</CREATERTLRESPONSE_FSFS_REQ>
</env:Body>
</env:Envelope>

```

Oracle Banking Virtual Account Management

Balance fetch

```

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

```

Handoff

```

{
  "sourceCode": "string",
  "sourceReferenceNo": "string",
  "vatRequestDetServiceDTO": [
    {
      "drCrInd": "string",
      "txnAccount": "string",
      "txnAccountBrn": "string",
      "txnCcy": "string",
      "txnAccountCcy": "string",
      "amtInTxnAccCcy": 0,
      "txnAmount": 0,
      "txnCode": "string",
      "valueDate": "string",
      "exchRate": 0,
      "reconRefNo": "string",
      "addlText": "string",
      "ecaOrBlockRefNo": "string",
      "ddaOffset": "string",
      "forceDebit": "N",
      "blkReleaseStatus": "string"
    }
  ]
}

```

Oracle Banking Payments**PMRftOutService - MT101**

```

<FCUBS_REQ_ENV>
  <FCUBS_HEADER>
    <SOURCE>$fcubsheader.source</SOURCE>
    <UBSCOMP>FCUBS</UBSCOMP>
    <MSGID>$fcubsheader.msgid</MSGID>
    <CORRELID></CORRELID>
    <USERID>$fcubsheader.userid</USERID>
    <BRANCH>$fcubsheader.branch</BRANCH>
    <MODULEID>PX</MODULEID>
    <SERVICE>PMRftOutService</SERVICE>
    <OPERATION>CreateRftOut</OPERATION>
    <SOURCE_OPERATION>NEW</SOURCE_OPERATION>
    <SOURCE_USERID></SOURCE_USERID>
    <DESTINATION></DESTINATION>
    <MULTITRIPID></MULTITRIPID>
    <FUNCTIONID></FUNCTIONID>
    <ACTION></ACTION>
    <PASSWORD></PASSWORD>
  </FCUBS_HEADER>
  <FCUBS_BODY>
    <Msg-Out101-Full>
      <REFERENCE_NO>$fcubsbody.msgOut101IO.referenceno</REFERENCE_NO>
      <HOST_CODE>$fcubsbody.msgOut101IO.hostcode</HOST_CODE>
      <BRANCH_CODE>$fcubsbody.msgOut101IO.branchcode</BRANCH_CODE>
      <CUSTOMER_NO>$fcubsbody.msgOut101IO.customerno</CUSTOMER_NO>
      <RECEIVER>$fcubsbody.msgOut101IO.receiver</RECEIVER>
      <TAG28D_MSGINX>$fcubsbody.msgOut101IO.tag28DMSGINX</TAG28D_MSGINX>
      <TAG28D_MSGTOT>$fcubsbody.msgOut101IO.tag28DMSGTOT</TAG28D_MSGTOT>
      <TAG50_ORD_OPT>$fcubsbody.msgOut101IO.tag50ORDOPT</TAG50_ORD_OPT>
      <TAG50_ORD_ACC>$fcubsbody.msgOut101IO.tag50ORDACC</TAG50_ORD_ACC>
      <TAG50_ORD_ADD1>$fcubsbody.msgOut101IO.tag50ORDADD1/add1</
TAG50_ORD_ADD1>
      <TAG50_ORD_ADD2>$fcubsbody.msgOut101IO.tag50ORDADD2</TAG50_ORD_ADD2>
      <TAG50_ORD_ADD3>$fcubsbody.msgOut101IO.tag50ORDADD3</TAG50_ORD_ADD3>
      <TAG30>$fcubsbody.msgOut101IO.tag30</TAG30>
      <TAG25>$fcubsbody.msgOut101IO.tag25</TAG25>
      <SOURCE_CODE>$fcubsbody.</SOURCE_CODE>
      #foreach($msgoutdetails in $fcubsbody.msgOut101IO.msgOut101Detail)
    <Msg-Out101-Detail>
      <TAG57_AWI_OPT>$msgoutdetails.tag57AWIOPT</TAG57_AWI_OPT>
      <TAG57_AWI_BIC>$msgoutdetails.tag57AWIBIC</TAG57_AWI_BIC>
      <TAG59_ACC>$msgoutdetails.tag59ACC</TAG59_ACC>
      <TAG59_ADD1>$msgoutdetails.tag59ADD1/add1</TAG59_ADD1>
      <TAG71A>$msgoutdetails.tag71A</TAG71A>
      <TAG23E_LINE1>$msgoutdetails.tag23ELINE1</TAG23E_LINE1>
      <TAG32B_CCY>$msgoutdetails.tag32BCCY</TAG32B_CCY>
      <TAG32B_AMOUNT>$msgoutdetails.tag32BAMOUNT</TAG32B_AMOUNT>
    </Msg-Out101-Detail>
      #end
    </Msg-Out101-Full>
  </FCUBS_BODY>
</FCUBS_REQ_ENV>

```

```

    </FCUBS_BODY>
  </FCUBS_REQ_ENV>

```

PMSinglePayOutService - MT103

```

<soapenv:Envelope
  xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:pms="http://pmts.ofss.com/ws/
PMSinglePayOutService"><soapenv:Header/
><soapenv:Body><pms:CreatePMSinglePayOut_FSFS_REQ
  xmlns:pms="http://pmts.ofss.com/ws/PMSinglePayOutService">
  <pms:FCUBS_HEADER>
  <pms:SOURCE>$body.source</pms:SOURCE>
  <pms:UBSCOMP>$body.ubscomp</pms:UBSCOMP>
  <pms:MSGID>$body.msgid</pms:MSGID>
  <pms:CORRELID>$body.correlid</pms:CORRELID>
  <pms:USERID>$body.userid</pms:USERID>
  <pms:BRANCH>$body.branch</pms:BRANCH>
  <pms:MODULEID>$body.moduleid</pms:MODULEID>
  <pms:SERVICE>PMSinglePayOutService</pms:SERVICE>
  <pms:OPERATION>CreatePMSinglePayOut</pms:OPERATION>
  <pms:SOURCE_OPERATION>NEW</pms:SOURCE_OPERATION>
  <pms:SOURCE_USERID></pms:SOURCE_USERID>
  <pms:DESTINATION></pms:DESTINATION>
  <pms:MULTITRIPID></pms:MULTITRIPID>
  <pms:FUNCTIONID></pms:FUNCTIONID>
  <pms:ACTION></pms:ACTION>
  <pms:PASSWORD></pms:PASSWORD>
  </pms:FCUBS_HEADER>
  <pms:FCUBS_BODY>
  <pms:CstmrCdtTrfInitn>
  <pms:GrpHdr>
  <pms:MsgId>$body.GrpHdr_MsgId</pms:MsgId>
  <pms:CreDtTm>$body.GrpHdr_CreDtTm</pms:CreDtTm>
  <pms:Authstn/>
  <pms:NbOfTxes>$body.GrpHdr_NbOfTxes</pms:NbOfTxes>
  <pms:InitgPty/>      </pms:GrpHdr>
  <pms:PmtInf>
  <pms:PmtInfId>$body.PmtInf_PmtInfId</pms:PmtInfId>
  <pms:PmtMtd>$body.PmtInf_PmtMtd</pms:PmtMtd>
  <pms:PmtTpInf>
  <pms:InstrPrty>$body.PmtInf_PmtTpInf_InstrPrty</
pms:InstrPrty>
  <pms:SvcLvl>
  <pms:Cd>$body.PmtInf_PmtTpInf_SvcLvl_Cd</pms:Cd>
  </pms:SvcLvl>
  <pms:CtgyPurp>
  <pms:Cd>$body.CtgyPurp_Cd</pms:Cd>
  </pms:CtgyPurp>
  </pms:PmtTpInf>
  <pms:ReqdExctnDt>$body.PmtInf_ReqdExctnDt</pms:ReqdExctnDt>
  <pms:Dbtr>
  <pms:Nm>$body.PmtInf_Dbtr_Nm</pms:Nm>
  <pms:PstlAdr/>
  <pms:Id>

```

```

        <pms:OrgId>
        <pms:ClrSysMmbId/>
        <pms:Othr>
        <pms:Id>$body.PmtInf_Dbtr_Id_OrgId_Othr_Id</
pms:Id>
        <pms:SchmeNm>
        <pms:Cd>$body.PmtInf_Dbtr_Id_OrgId_Othr_SchmeNm_Cd</
pms:Cd>
        </pms:SchmeNm>
        </pms:Othr>
        </pms:OrgId>
        </pms:Id>
        </pms:Dbtr>
        <pms:DbtrAcct>
        <pms:Id>
        <pms:Othr>
        <pms:Id>$body.PmtInf_DbtrAcct_Id_Othr_Id</pms:Id>
        </pms:Othr>
        </pms:Id>
        </pms:DbtrAcct>
        <pms:DbtrAgt>
        #if (!$custom.isNull($body.PmtInf_DbtrAgt_BICFI))
        <pms:BICFI>$body.PmtInf_DbtrAgt_BICFI</pms:BICFI>
        #end
        </pms:DbtrAgt>
        <pms:DbtrAgtAcct>
        <pms:Id>
        <pms:Othr>
        <pms:Id>$body.PmtInf_DbtrAgtAcct_Id_Othr_Id</pms:Id>
        </pms:Othr>
        </pms:Id>
        </pms:DbtrAgtAcct>
        <pms:ChrgBr>$body.PmtInf_chrgBr_cd</pms:ChrgBr>
        <pms:CdtTrfTxInf>
        <pms:PmtId>
        <pms:InstrId>$body.CdtTrfTxInf_PmtId_InstrId</
pms:InstrId>
        <pms:EndToEndId>$body.CdtTrfTxInf_PmtId_EndToEndId</
pms:EndToEndId>
        </pms:PmtId>
        <pms:Amt>
        <pms:InstdAmt
Ccy="$body.CdtTrfTxInf_Amt_InstdAmt_Ccy">$body.CdtTrfTxInf_Amt_InstdAmt_value<
/pms:InstdAmt>
        <pms:EqvtAmt/>
        </pms:Amt>
        <pms:IntrmyAgt1>
        <pms:PstlAdr/>
        </pms:IntrmyAgt1>
        <pms:CdtrAgt>
        #if (!$custom.isNull($body.CdtTrfTxInf_CdtrAgt_BICFI))
        <pms:BICFI>$body.CdtTrfTxInf_CdtrAgt_BICFI</
pms:BICFI>
        #end
        <pms:PstlAdr/>

```

```

        </pms:CdtrAgt>
        <pms:CdtrAgtAcct>
        <pms:Id>
        <pms:Othr/>
        </pms:Id>
        </pms:CdtrAgtAcct>
        <pms:Cdtr>
        <pms:Nm>$body.CdtTrfTxInf_Cdtr_Nm</pms:Nm>
        <pms:PstlAdr/>
        </pms:Cdtr>
        <pms:CdtrAcct>
        <pms:Id>
        <pms:Othr>
        <pms:Id>$body.CdtTrfTxInf_CdtrAcct_Id_Othr_Id</
pms:Id>
        </pms:Othr>
        </pms:Id>
        </pms:CdtrAcct>
        </pms:CdtTrfTxInf>
        <pms:CustcrdtrfinitAddinf>
        <pms:BeneficiaryInst/>
        <pms:BeneficiaryInstAcct>
            <pms:Id>
            <pms:Othr/>
            </pms:Id>
        </pms:BeneficiaryInstAcct>
        </pms:CustcrdtrfinitAddinf>
        <pms:Misdetails/>
        </pms:PmtInf>
        <pms:GrpTlr>
        <pms:TxnBranch>$body.GrpTlr_TxnBranch</pms:TxnBranch>
        <pms:HostCode>$body.GrpTlr_HostCode</pms:HostCode>
        <pms:SourceCode>$body.GrpTlr_SourceCode</pms:SourceCode>
        <pms:NetworkCode>$body.GrpTlr_NetworkCode</pms:NetworkCode>
        <pms:PrefundedPayments>$body.GrpTlr_PrefundedPayments</
pms:PrefundedPayments>
        <pms:TransferType>$body.GrpTlr_TransferType</pms:TransferType>
        </pms:GrpTlr>
        </pms:CstmrCdtTrfInitn>
        </pms:FCUBS_BODY></pms:CreatePMSinglePayOut_FSFS_REQ></soapenv:Body></
soapenv:Envelope>

```

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": [
        {
          "reverseSweepFrequency": null,
          "percentageShare": 0,
          "accountCurrency": "GBP",
          "bookingAccountCurrency": "GBP",
          "rateType": "STANDARD",
          "isTwoWay": "Y",
          "structureMasterId": "",
          "LmmTmStructureInstructionDTO": [],
          "isExternal": "Internal",
          "accountType": "Sweep",
          "accountLevel": 0,
          "branchCode": "HEL",
          "isNotional": "N",
          "reallocationMethod": null,
          "bookingAccountNumber": "HEL0046400178",
          "sweepPriority": null,
          "bookingAccountBranch": "HEL",
          "parentAccountBranch": null,
          "isNominatedAccount": "Y",
          "accountNumber": "HEL0046400178",
          "parentAccountNumber": null,
          "accCategory": "Sweep",
          "parentAccountCurrency": null
        },
        {
          "reverseSweepFrequency": "FM2341112",
          "percentageShare": 0,
          "accountCurrency": "GBP",
          "bookingAccountCurrency": "GBP",
          "rateType": "STANDARD",

```

```

        "isTwoWay": "Y",
        "structureMasterId": "",
        "LmmTmTempStructurePriorityDTO": [
            {
                "id": "",
                "structureMasterId": "",
                "structureId": "STG5MWB4PS39",
                "structurePriority": 1
            }
        ]

        "LmmTmStructureInstructionDTO": [
            {
                "structureDetailsId": "",
                "LmmTmStructureInstructionDetDTO": [
                    {
                        "structureInstructionId": "",
                        "paramName": "Maximum",
                        "paramValue": "4000"
                    },
                    {
                        "structureInstructionId": "",
                        "paramName": "MaximumDeficit",
                        "paramValue": "1000"
                    },
                    {
                        "structureInstructionId": "",
                        "paramName": "Minimum",
                        "paramValue": "1"
                    }
                ],
                {
                    "structureInstructionId": "",
                    "paramName": "MinimumDeficit",
                    "paramValue": "100"
                },
                {
                    "structureInstructionId": "",
                    "paramName": "Multiple",
                    "paramValue": "10"
                }
            },
            {
                "instrDesc": "Zero Balance Model",
                "instructionPriority": 1,
                "LmmTmStructureInstructionFrequencyDTO": [
                    {
                        "frequencyId": "FM2341112",
                        "structureInstructionId": "",
                        "freqDesc": null
                    }
                ],
                "instructionId": "TEST22"
            }
        ],
        "isExternal": "Internal",
        "accountType": "Sweep",
        "accountLevel": 1,

```

```

        "branchCode": "HEL",
        "isNotional": "N",
        "reallocationMethod": null,
        "bookingAccountNumber": "HEL0046400067",
        "sweepPriority": 1,
        "bookingAccountBranch": "HEL",
        "parentAccountBranch": "HEL",
        "isNominatedAccount": "Y",
        "accountNumber": "HEL0046400067",
        "parentAccountNumber": "HEL0046400178",
        "accCategory": "Sweep",
        "parentAccountCurrency": "GBP"
    }
],
"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Sweep 19721",
"systemAccountCurrency": null,
"systemAccountBranch": null,
"LmmTmStructureAccountsDTO": [
    {
        "isExternal": "Internal",
        "accountCurrency": "GBP",
        "accountNumber": "HEL0046400178",
        "isNotional": "N",
        "isSelected": "Y",
        "accCategory": "Sweep",
        "accountBranch": "HEL"
    },
    {
        "isExternal": "Internal",
        "accountCurrency": "GBP",
        "accountNumber": "HEL0046400067",
        "isNotional": "N",
        "isSelected": "Y",
        "accCategory": "Sweep",
        "accountBranch": "HEL"
    }
],
"customerId": "000464",
"systemAccountNumber": null,
"considerPostSweepBalance": "Y",
"ratePickUp": "Previous Day Rate",
"structureId": "STG5MWB4PS39",
"multiBankFlag": true,
"centralAccountBranch": null,
"structureType": "Sweep",
"headerBranchCode": "HEL",
"interestMethod": "I",
"effectiveDate": "2018-07-19"
}
]
}

```

Modify Sweep Structure

```

{
  "data": [
    {
      "keyId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
      "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",
      "structurePriority": 25,
      "effectiveDate": "2018-07-19",
      "endDate": "2022-07-01",
      "headerAccountNumber": "HEL0046400178",
      "headerBranchCode": "HEL",
      "headerCurrency": "GBP",
      "multiBankFlag": "N",
      "crossBorderFlag": "N",
      "crossCurrencyFlag": "N",
      "balanceType": "V",
      "structureFrequency": null,
      "currencyRateType": "STANDARD",
      "allowSweepOnCurrencyHol": "Y",
      "interestMethod": "I",
      "ratePickUp": "Previous Day Rate",
      "nextRunDate": null,
      "eodExecution": null,
      "reverseFrequency": null,
      "instructionType": null,
      "reallocationMethod": "No Reallocation",
      "holidayTreatment": "P",
      "maxBackwardDays": 2,
      "backwardTreatment": "N",
      "centralAccountNumber": null,
      "centralAccountBranch": null,
      "centralAccountCurrency": null,
      "nextRunDateReverse": null,
      "prevRunDateReverse": null,
      "structureStatus": "A",
      "investmentSweep": null,
      "considerPostSweepBalance": "Y",
      "fxRatePickup": "Offline",
      "limitTrackingFlag": null,
    }
  ]
}

```

```

"sourceSystem": "OBDX",
"systemAccountNumber": null,
"systemAccountBranch": null,
"systemAccountCurrency": null,
"pauseStartDate": "2021-07-01",
"pauseEndDate": "2021-10-01",
"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,
"LmmTmTempStructurePriorityDTO": [
  {
    "id": "988509491913613315",
    "structureMasterId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
    "structureId": "STG5MWB4PS39",
    "structurePriority": 1
  }
]
"LmmTmStructureDetailsDTO": [
  {
    "id": "1883ba34-0575-4177-8422-c52616c3bab4",
    "structureMasterId": "40e011ff-0ff7-4f8c-a70b-aa01fed8ca59",
    "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": "Sweep",
    "parentAccountNumber": "HEL0046400178",
    "parentAccountBranch": "HEL",
    "parentAccountCurrency": "GBP",
    "bookingAccountNumber": "HEL0046400067",
    "bookingAccountBranch": "HEL",
    "bookingAccountCurrency": "GBP",
    "rateType": "STANDARD",
    "accountType": "Sweep",
    "sweepPriority": 1,
    "isTwoWay": "Y",
    "reverseSweepFrequency": "FM2341112",
  }
]

```

```

        "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": [
            {
                "id": "2c83f188-240f-4e79-9fc6-452e00bf5f47",
                "structureDetailsId": "1883ba34-0575-4177-8422-c52616c3bab4",
                "instructionId": "TEST22",
                "instrDesc": "Zero Balance Model",
                "instructionPriority": 1,
                "suspensionStartDate": null,
                "suspensionEndDate": null,
                "LmmTmStructureInstructionFrequencyDTO": [
                    {
                        "id": "b38012af-9a09-49c0-90bb-3fa8f4d05368",
                        "structureInstructionId":
"2c83f188-240f-4e79-9fc6-452e00bf5f47",
                        "frequencyId": "FM2341112",
                        "freqDesc": "FM2341112"
                    }
                ],
                "LmmTmStructureInstructionDetDTO": [
                    {
                        "id": "70557117-7bd6-41c7-850f-2d634325b84b",
                        "structureInstructionId":
"2c83f188-240f-4e79-9fc6-452e00bf5f47",
                        "paramName": "MinimumDeficit",
                        "paramValue": "100"
                    }
                ],
                {
                    "id": "4465bf7e-4a64-42f9-b56a-d49c7b3185fe",
                    "structureInstructionId":

```

```

    "2c83f188-240f-4e79-9fc6-452e00bf5f47",
      "paramName": "Multiple",
      "paramValue": "10"
    },
    {
      "id": "591a3a02-fcac-4b92-bcd5-809f33eeacc5",
      "structureInstructionId":
    "2c83f188-240f-4e79-9fc6-452e00bf5f47",
      "paramName": "Maximum",
      "paramValue": "4000"
    },
    {
      "id": "3bb941c7-f55c-4a98-9b68-d14942c93b85",
      "structureInstructionId":
    "2c83f188-240f-4e79-9fc6-452e00bf5f47",
      "paramName": "Minimum",
      "paramValue": "1"
    },
    {
      "id": "b4d48a90-1cf3-49e9-a3ee-47508fa3d3e1",
      "structureInstructionId":
    "2c83f188-240f-4e79-9fc6-452e00bf5f47",
      "paramName": "MaximumDeficit",
      "paramValue": "1000"
    }
  ]
},
"LmmTmStructurePaymentDTO": [
  {
    "id": "b3278ecd-50f7-4b74-b314-d02cb56fc226",
    "structureDetailsId": "1883ba34-0575-4177-8422-c52616c3bab4",
    "sweepDirection": "Toway",
    "interfaceMasterId": "2b274af6-2f1f-4892-b1c5-bc0f3e75ea09",
    "LmmTmStructurePaymentDetailDTO": [
      {
        "id": "66ac2418-d1b2-4996-9746-ab36c63f4678",
        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
        "paramName": "LCYAMOUNT",
        "paramValue": "#TO_AMOUNT"
      },
      {
        "id": "4390fcca-e372-4172-bc8a-2990c20b5d47",
        "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
        "paramName": "FROM_ACC_LCY",
        "paramValue": "#FROM_ACC_LCY"
      }
    ],
    {
      "id": "9c25e848-12ba-4c9f-bcde-cfe5e2cf1163",
      "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
      "paramName": "MODULE",
      "paramValue": "DE"
    }
  ],

```

```

        {
            "id": "010f53ba-3293-4680-a32b-0e4e7a48425f",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "AMOUNTTAG",
            "paramValue": "TXN_AMT1"
        },
        {
            "id": "f7f5b999-ee59-4ffd-a5d3-b88618fb27f5",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "FROM_ACC_BRANCH",
            "paramValue": "#FROM_ACC_BRANCH"
        },
        {
            "id": "2683bbdb-20d2-41ba-b3ae-1b82abcce776",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "TOAC_FCYAMT",
            "paramValue": "#TOAC_FCYAMT"
        },
        {
            "id": "80aaa799-6448-4019-8acf-e3b71dee5829",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "EVENT",
            "paramValue": "INIT"
        },
        {
            "id": "ee5189b5-c654-420e-bf22-cafaaa3e9cdf",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "TRNREFNO",
            "paramValue": "#EXT_TRANSACTION_NO"
        },
        {
            "id": "87b117f2-5a94-481a-b530-50293c5a9018",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "FROM_ACC_CCY",
            "paramValue": "#FROM_ACC_CCY"
        },
        {
            "id": "57eb1ald-877b-4736-9091-46bcb5d2087f",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "TO_ACC_CCY",
            "paramValue": "#TO_ACC_CCY"
        },
        {
            "id": "ece41aef-1c6f-402b-8f4e-3c4859b28b87",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "TO_ACC_BRANCH",
            "paramValue": "#TO_ACC_BRANCH"
        },
    },

```

```

{
    "id": "82ddb23c-bc1a-473c-9b3f-bdaa135bb1e4",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "EVENTSRNO",
    "paramValue": "1"
},
{
    "id": "9c52db58-b94a-4e08-b91a-9ae66f715bfc",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "VALUEDT",
    "paramValue": "#VALUE_DT"
},
{
    "id": "6fd645ed-e1d6-4059-ae13-c7b7b5bc7349",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "FROM_ACC",
    "paramValue": "#FROM_ACC"
},
{
    "id": "84c27c7c-9b81-43c8-b20b-855cbe2e51b2",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "TOAC_LCYAMT",
    "paramValue": "#TOAC_LCYAMT"
},
{
    "id": "e26ed62d-e0c5-4a33-b936-8b79d34d8b94",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "AVAILBALREQD",
    "paramValue": "#AVAILBALREQD"
},
{
    "id": "d334ab6d-9314-453f-afb9-af75612bfbb2",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "ENTITY_ID",
    "paramValue": "#ENTITY_ID"
},
{
    "id": "91912e01-67ca-4170-ab8d-110afdda94cf",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "TRNDT",
    "paramValue": "#LOG_TIME"
},
{
    "id": "1ba49b02-2d74-42d7-9eee-f94272f73880",
    "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
    "paramName": "TO_ACC_LCY",
    "paramValue": "#TO_ACC_LCY"
},
}

```

```

        {
            "id": "33857b79-f596-441d-b96f-1d920a4983f6",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "FCYAMOUNT",
            "paramValue": "#TO_FCY_AMOUNT"
        },
        {
            "id": "9323458b-8659-48f9-87f3-015551734bf6",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "FROMAC_FCYAMOUNT",
            "paramValue": "#FROMAC_FCYAMOUNT"
        },
        {
            "id": "fb31738c-0bbb-4a49-aal6-050ab60ffd0f",
            "structurePaymentId": "b3278ecd-50f7-4b74-b314-
d02cb56fc226",
            "paramName": "EXCHRATE",
            "paramValue": "#FX_RATE"
        },
        {
            "id": "4b03f4dc-08e9-48c6-aa76-1c7f5bf1fd06",
            "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": [
        {
            "id": "d0154169-9f45-40cb-9fc3-eee4d5f631a9",
            "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
            "paramName": "MODULE",
            "paramValue": "DE"
        }
    ]
}

```

```

    },
    {
      "id": "743a71c8-791d-4ae1-9359-b4e0ddb04e78",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "TOAC_FCYAMT",
      "paramValue": "#TOAC_FCYAMT"
    },
    {
      "id": "9f93b945-4020-44f6-8096-18db67e4af5e",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "FROMAC_LCYAMOUNT",
      "paramValue": "#FROMAC_LCYAMOUNT"
    },
    {
      "id": "151b61a9-06ed-46aa-aaae-0939c3cf39cc",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "EXCHRATE",
      "paramValue": "#FX_RATE"
    },
    {
      "id": "bb8f0079-e8e6-4ece-b977-644aaa82f662",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "FROMAC_FCYAMOUNT",
      "paramValue": "#FROMAC_FCYAMOUNT"
    },
    {
      "id": "21432c65-ce9e-488e-8f10-41f4240bb8cc",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "VALUEDT",
      "paramValue": "#VALUE_DT"
    },
    {
      "id": "81b7ce68-03d6-46be-b500-274517325485",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "TRNREFNO",
      "paramValue": "#EXT_TRANSACTION_NO"
    },
    {
      "id": "5561f633-a93f-4fa4-bd7b-b2ecb0b787c9",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "FROM_ACC_CCY",
      "paramValue": "#FROM_ACC_CCY"
    },
    {
      "id": "67babc1d-6853-40b2-915e-aa3f104aed2f",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "TOAC_LCYAMT",
      "paramValue": "#TOAC_LCYAMT"
    }
  ],
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "TOAC_FCYAMT",
  "paramValue": "#TOAC_FCYAMT"
},
{
  "id": "9f93b945-4020-44f6-8096-18db67e4af5e",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "FROMAC_LCYAMOUNT",
  "paramValue": "#FROMAC_LCYAMOUNT"
},
{
  "id": "151b61a9-06ed-46aa-aaae-0939c3cf39cc",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "EXCHRATE",
  "paramValue": "#FX_RATE"
},
{
  "id": "bb8f0079-e8e6-4ece-b977-644aaa82f662",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "FROMAC_FCYAMOUNT",
  "paramValue": "#FROMAC_FCYAMOUNT"
},
{
  "id": "21432c65-ce9e-488e-8f10-41f4240bb8cc",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "VALUEDT",
  "paramValue": "#VALUE_DT"
},
{
  "id": "81b7ce68-03d6-46be-b500-274517325485",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "TRNREFNO",
  "paramValue": "#EXT_TRANSACTION_NO"
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  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "FROM_ACC_CCY",
  "paramValue": "#FROM_ACC_CCY"
},
{
  "id": "67babc1d-6853-40b2-915e-aa3f104aed2f",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
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  "paramName": "TOAC_LCYAMT",
  "paramValue": "#TOAC_LCYAMT"
}

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    },
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      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "TO_ACC",
      "paramValue": "#TO_ACC"
    },
    {
      "id": "0777f8a2-6827-4d0a-84e7-1c0ac17e04e1",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "TO_ACC_CCY",
      "paramValue": "#TO_ACC_CCY"
    },
    {
      "id": "245aec61-63ae-41c8-9991-6438d774b7dc",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "TRNCODE",
      "paramValue": "000"
    },
    {
      "id": "42c546fd-87de-4a75-ba4c-ddd2181e0e84",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "FROM_ACC_BRANCH",
      "paramValue": "#FROM_ACC_BRANCH"
    },
    {
      "id": "3196a5b4-afd9-4e47-af13-1b0be0e34bbc",
      "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
      "paramName": "EVENT",
      "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"
    }
  ],
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
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  "paramName": "TO_ACC",
  "paramValue": "#TO_ACC"
},
{
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  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
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  "paramName": "TO_ACC_CCY",
  "paramValue": "#TO_ACC_CCY"
},
{
  "id": "245aec61-63ae-41c8-9991-6438d774b7dc",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "TRNCODE",
  "paramValue": "000"
},
{
  "id": "42c546fd-87de-4a75-ba4c-ddd2181e0e84",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "FROM_ACC_BRANCH",
  "paramValue": "#FROM_ACC_BRANCH"
},
{
  "id": "3196a5b4-afd9-4e47-af13-1b0be0e34bbc",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "EVENT",
  "paramValue": "INIT"
},
{
  "id": "1ff6d74f-8488-4da6-9a75-3c34d0b92614",
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
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  "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"
}

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    },
    {
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      "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"
    }
  ],
  "structurePaymentId": "9df0c2e5-4667-4ef7-adb1-
da89b940ffe9",
  "paramName": "FCYAMOUNT",
  "paramValue": "#TO_FCY_AMOUNT"
}

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        }
      ]
    }
  ],
  "LmmTmStructureAccPriorityDTO": [],
  "LmmTmStrRevSweepDetailsDTO": [],
  "LmmTmStructureIcdDTO": []
},

{
  "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,

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        "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"
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        "id": "386a0140-1a7e-4d62-a421-7eae57bb98e1",
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        "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,

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        "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": [
            {

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    "id": "4c0499a6-32a6-406f-b31d-0b96d044d325",
    "structureMasterId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
    "accountNumber": "OBDX_SYSACC_7153",
    "accountDescription": "OBDX_SYSACC_7153 Notional Account",
    "branchCode": "HEL",
    "accountCurrency": "GBP",
    "isExternal": "External",
    "acyAvailableBal": null,
    "bankCode": "0020",
    "countryId": "AUS",
    "cityId": "Sydney",
    "region": "Australia/Adelaide",
    "latitude": -33.92,
    "longitude": 151.1852,
    "isNotional": "Y",
    "accCategory": "Pool",
    "parentAccountNumber": null,
    "parentAccountBranch": null,
    "parentAccountCurrency": null,
    "bookingAccountNumber": "OBDX_SYSACC_7153",
    "bookingAccountBranch": "HEL",
    "bookingAccountCurrency": "GBP",
    "rateType": null,
    "accountType": "Notional",
    "sweepPriority": 1,
    "isTwoWay": null,
    "reverseSweepFrequency": null,
    "twowaySweepPriority": null,
    "onlineBalanceFetch": null,
    "partialReverseSweep": null,
    "isHold": "N",
    "eodExecution": "N",
    "ratePickUp": null,
    "reallocationRequired": null,
    "reallocationMethod": null,
    "allowReverseSweep": "N",
    "isNominatedAccount": null,
    "accountLevel": 0,
    "centralAccountNumber": null,
    "centralAccountBranch": null,
    "centralAccountCurrency": null,
    "percentageShare": null,
    "percentageChildShare": null,
    "partialTransferAllowed": null,
    "holdStartDate": null,
    "holdEndDate": null,
    "isVirtual": null,
    "oneWayAccountGroup": null,
    "twoWayAccountGroup": null,
    "isRegulatedDebits": "N",
    "entityID": "HEL_ENTITY",
    "entityName": "HEL_ENTITY_NAME",
    "iban": null,
    "customerName": "XXX XXXXXXX",
    "LmmTmStructureInstructionDTO": [],
    "LmmTmStructurePaymentDTO": [],

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```

    "LmmTmStructureAccPriorityDTO": [],
    "LmmTmStrRevSweepDetailsDTO": [],
    "LmmTmStructureIcdDTO": []
  },
  {
    "id": "bf46f936-elf0-4ec9-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",
  }

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```

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        "iban": null,
        "customerName": "XXX XXXXXX",
        "LmmTmStructureInstructionDTO": [],
        "LmmTmStructurePaymentDTO": [],
        "LmmTmStructureAccPriorityDTO": [],
        "LmmTmStrRevSweepDetailsDTO": [],
        "LmmTmStructureIcdDTO": []
    }
},
"LmmTmStructureAccountsDTO": [
    {
        "id": "851563de-855a-412a-b8fe-0bac5b5df735",
        "structureMasterId": "f8996b15-ca0d-4933-977c-5a3d4d29cd3d",
        "accountNumber": "OBDX_SYSACC_7153",
        "accountDescription": "OBDX_SYSACC_7153 Notional Account",
        "accountBranch": "HEL",
        "accountCurrency": "GBP",
        "isExternal": "External",
        "isNotional": "Y",
        "accCategory": "Pool",
        "accountType": "Notional",
        "acyAvailableBal": null,
        "bankCode": "0020",
        "countryId": "AUS",
        "cityId": "Sydney",
        "region": "Australia/Adelaide",
        "isSelected": "Y",
        "isRegulatedDebits": "N",
        "entityID": "HEL_ENTITY",
        "entityName": "HEL_ENTITY_NAME",
        "iban": null,
        "customerName": "XXX 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"
  }
],
"isExternal": "Internal",
"accountType": "Sweep",
"accountLevel": 2,
"branchCode": "HEL",
"isNotional": "N",
"reallocationMethod": null,
"bookingAccountNumber": "HEL0046400178",
"sweepPriority": 1,
"bookingAccountBranch": "HEL",
"parentAccountBranch": "HEL",
"isNominatedAccount": "Y",
"accountNumber": "HEL0046400178",
"parentAccountNumber": "HEL0046400067",
"accCategory": "Sweep",
"parentAccountCurrency": "GBP"
}
],
"centralAccountCurrency": null,
"sourceSystem": "OBDX",
"structureDescription": "Hybrid 19721",
"systemAccountCurrency": "GBP",
"systemAccountBranch": "HEL",
"LmmTmStructureAccountsDTO": [
  {

```

```

        "isExternal": "Internal",
        "accountCurrency": "GBP",
        "accountNumber": "HEL0046400067",
        "isNotional": "N",
        "isSelected": "Y",
        "accCategory": "Pool",
        "accountBranch": "HEL"
    },
    {
        "isExternal": "Internal",
        "accountCurrency": "GBP",
        "accountNumber": "HEL0046400178",
        "isNotional": "N",
        "isSelected": "Y",
        "accCategory": "Sweep",
        "accountBranch": "HEL"
    }
],
"customerId": "000464",
"systemAccountNumber": null,
"considerPostSweepBalance": "Y",
"ratePickUp": "Past 5 day Average Rate",
"structureId": "STUY82QJW4SH",
"multiBankFlag": true,
"centralAccountBranch": null,
"structureType": "Hybrid",
"headerBranchCode": null,
"interestMethod": "I",
"effectiveDate": "2018-07-19"
}
]
}

```

3

Inbound APIs

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

Table 3-1 Oracle Banking Liquidity Management Inbound APIs

SI.No	Consumer System	SERVICE NAME	Service URL
1	OBDX	fetchLMInstruction	http://host:port/api-gateway/oblm-cash-concentration-services/service/v14.8.2.0.0/instructions
2	OBDX	fetchUpcomingSweepLogs	http://host:port/api-gateway/oblm-dashboard-services/service/v14.8.2.0.0/scheduledSweeps
3	OBDX	editLendLimit	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/customers/{id}
4	OBDX	closeLendLimit	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/customers/{id}/close
5	OBDX	readLMLendLimit	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/customers
6	OBDX	createlendlimit	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/customers
7	OBDX	readLMInterCompanyLoan	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/loans/{id}
8	OBDX	fetchICLTransactions	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/loans/{loanId}/transactions
9	OBDX	listLMInterCompanyLoans	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/loans
10	OBDX	initiateICLSettlement	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/loans/initiateSettlement
11	OBDX	listIntercompanyLoanSummary	http://host:port/api-gateway/oblm-icl-services/service/v14.8.2.0.0/loans/summary
12	OBDX	fetchLMSimulationAccounts	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0.0/accounts/commonCoreAccountfetch
13	OBDX	fetchLMAccountsByPartyId	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0.0/accounts
14	OBDX	fetchLMAccounts	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0.0/accounts/getLinkedAccounts

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

SI.No	Consumer System	SERVICE NAME	Service URL
15	OBDX	fetchLMBranches	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0/imm/branches
16	OBDX	fetchLMCurrency	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0/currencies
17	OBDX	getLMGroupCustomerID	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0/customers/getGroupCustomerId
18	OBDX	partyHierarchyList	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0/customers/getAllCustomers
19	OBDX	fetchLMFrequencies	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0/frequencies
20	OBDX	fetchPoolLogs	http://host:port/api-gateway/oblm-pool-services/service/v14.8.2.0/pools/logs
21	OBDX	fetchReallocationMonitorLogs	http://host:port/api-gateway/oblm-pool-services/service/v14.8.2.0/reallocations/logs
22	OBDX	downloadLMSimulationPDFReport	http://host:port/api-gateway/oblm-report-services/service/v14.8.2.0/simulations/download
23	OBDX	fetchLMStructures	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/structures
24	OBDX	fetchLMSimulation	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/structures
25	OBDX	readLMSimulation	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/structures/{id}
26	OBDX	readLMStructurePdfDownload	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/structures/{id}
27	OBDX	fetchLMAccountsWithStructure	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/structures/priorities/accountNumbers/{accountNumbers}
28	OBDX	readLMStructure	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/lite/structures/{id}
29	OBDX	editLMStructure	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/lite/structures/{id}
30	OBDX	getChildAccountsForLMStructure	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0/structures/childAccounts

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

SI.No	Consumer System	SERVICE NAME	Service URL
31	OBDX	editLMSimulation	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0.0/structures/modifyExternal
32	OBDX	createLMStructure	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0.0/structures/createExternal
33	OBDX	createLMSimulation	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0.0/structures/createExternal
34	OBDX	fetchLMAccountsWithlinkedStructure	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0.0/structures/having-common-accounts
35	OBDX	listStructurePriorities	http://host:port/api-gateway/oblm-structure-services/service/v14.8.2.0.0/structure-priority/{customerId}
36	OBDX	executeLMSweepStructure	http://host:port/api-gateway/oblm-sweep-services/service/v14.8.2.0.0/sweeps/channel
37	OBDX	fetchSweepLogs	http://host:port/api-gateway/oblm-sweep-services/service/v14.8.2.0.0/sweeps/logs
38	OBDX	executeSweepAccountPairs	http://host:port/api-gateway/oblm-sweep-services/service/v14.8.2.0.0/sweeps/adhoc/initiate
39	OBDX	getSegregatedBalancesByIdentifier	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/CMAccounts/balances/{groupingIdentifier}/{identifierValue}
40	OBDX	getIdentifiers	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/CMAccounts/balances/identifiers
41	OBDX	getBalancesByIdentifier	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/CMAccounts/balances/{groupingIdentifier}
42	OBDX	getAll	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/CMAccounts/balances
43	OBDX	getAccountNumbers	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/CMAccounts/balances/getAccountNumbers
44	OBCM	fetchCMBalances	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/CMAccounts/balances
45	OBCM	fetchLMAccounts	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0.0/accounts
46	OBA	initiateRtlTxn	http://host:port/api-gateway/oblm-rtl-services/service/v14.8.2.0.0/rtlTransactions/initiate

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

SI.No	Consumer System	SERVICE NAME	Service URL
47	OBA	postRtl	http://host:port/api-gateway/oblm-rtl-services/service/v14.8.2.0.0/rtlTransactions/post
48	OBA	undoRtl	http://host:port/api-gateway/oblm-rtl-services/service/v14.8.2.0.0/rtlTransactions/undo
49	OBPM	processAckNack	http://host:port/api-gateway/oblm-integration-services/service/v14.8.2.0.0/externalSystemLogs/processAckNack
50	OBVAM	getLMAccount	http://host:port/api-gateway/oblm-maintenance-services/service/v14.8.2.0.0/accounts

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

4

Events

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

Oracle Banking Liquidity Management provides the below-listed events.

Table 4-1 List of Events

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

Table 4-1 (Cont.) List of Events

S.No	Topic	Purpose	Avro Schema
19	Im.accountnotification	Event is generated when account is authorized	
20	Im.vamImaccountnotification	This is a consumer topic for LM to auto create customer/ account, which consumes events published by VAM on creation of customer/account	
21	Imm-account	Event is generated for LM accounts	LM Account

Note

Click on the links to download the avro files.

5

File Upload

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

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

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

Note

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

6

FOP Advices

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

This topic contains the following sub-topics:

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

6.1 Prerequisites

This topic provides the information of Prerequisites.

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

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

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

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

Note

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

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

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

- ERTB_MSGS
 - OBMA_DOCUMENT_STORE
 - OBMA_EXTRACTOR_CONFIG
 - OBMA_REPORT_LOG
 - OBMA_TEMPLATE_IMAGE
 - OBMA_TM_REPORT_METADATA
 - OBMA_TM_TEMPLATE_IMAGE
 - OBMA_TM_TEMPLATE_METADATA
 - OBMA_TW_REPORT_METADATA
 - OBMA_TW_TEMPLATE_IMAGE
 - OBMA_TW_TEMPLATE_METADATA
8. Deploy oblm-report-services.
 9. Once the oblm-report-services is deployed, ensure the below table is added in LMR schema.
 - LMR_TB_ADVICE

6.2 Template Upload Process

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

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

Table 6-1 Naming Convention - Report Template

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

Note

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

Note

Click on the link to download the report template.

6.3 Generate Advices

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

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

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

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