

OBRH - OBVAM Integration Guide
Oracle Banking Virtual Account Management

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OBRH - OBVAM Integration Guide

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1. About this Manual

1.1 Purpose

This manual is to help with Integration of Oracle Banking Virtual Account Management with Oracle Banking Routing Hub Product.

1.2 Audience

This guide is primarily intended for the following user/user roles:

Role	Function
Implementation and IT Staff	Implementation and maintenance of the software

1.3 List of Chapters

Role	Function
Chapter 1	Provides information on the intended audience. It also lists the various chapters covered in this manual.
Chapter 2	This chapter helps you to Integrate Oracle Banking Digital Experience with Oracle Banking Routing Hub product.

1.4 Acronym and Abbreviation

Following are some of the acronyms and abbreviations you are likely to find in the manual:

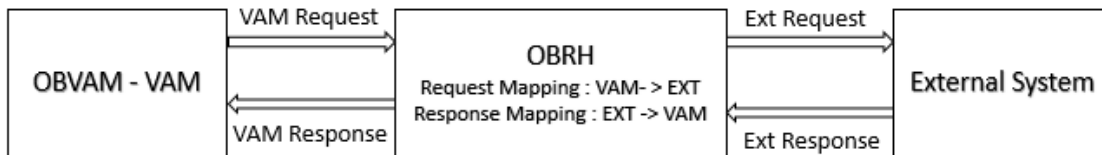
Abbreviation	Description
OBRH	Oracle Banking Routing Hub
OBVAM	Oracle Banking Virtual Account Management

2. Integration Guide

2.1 Introduction

This document briefs you about APIs that are configured in OBVAM via Oracle Banking Routing Hub (OBRH). These APIs were earlier configured to use the jars directly for the endpoint for different APIs like amount block, transaction journaling etc.

OBRH Enables seamless & standardised integrations between FSGBU Banking Products using configurations provided as part of the product Infrastructure.



For more details on OBRH configuration, refer to the OBRH documentation.

2.2 APIs configured using OBRH

2.2.1 OBVAM DDA Implementation

Following are the APIs which are configured using OBRH:

1. closeECA

Host: FCUBS

Version: 14.1 / 14.4

2. EAC

Host: FCUBS

Version: 14.1 / 14.4

3. createECA

Host: FCUBS

Version: 14.1 / 14.4

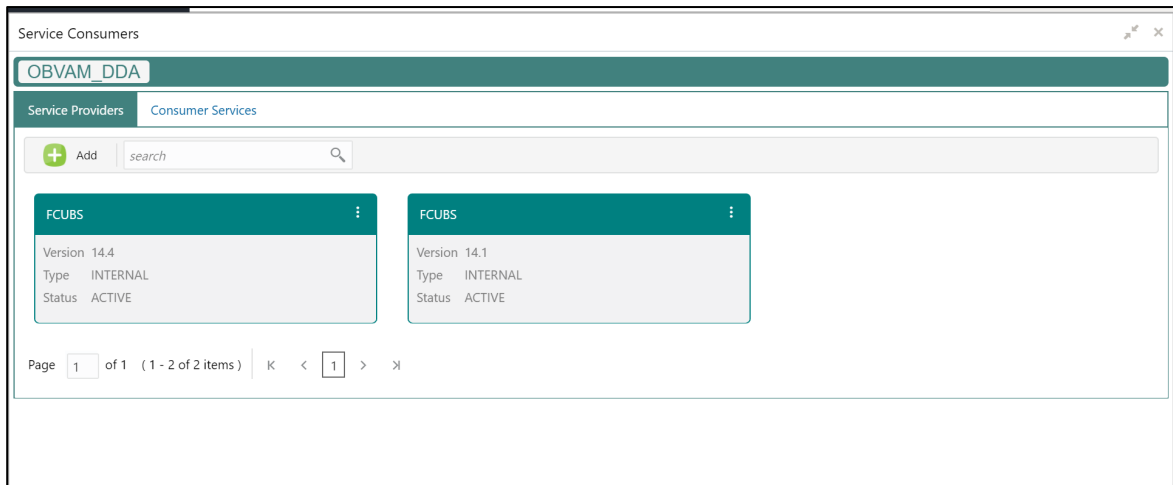
4. handofftoDDA

Host: FCUBS

Version: 14.1 / 14.4

2.2.1.1 Configured Service Providers in OBRH

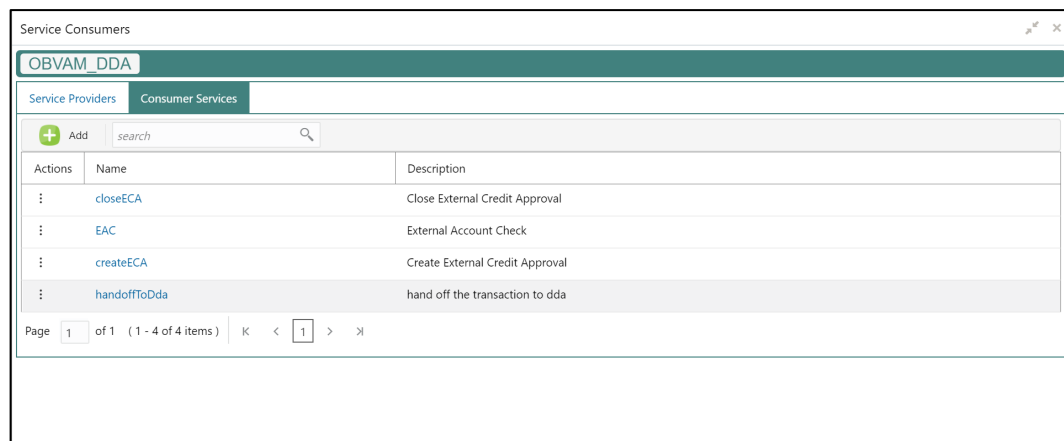
Multiple DDA providers are added to configure FCUBS 14.1 and FCUBS 14.4. They use SOAP APIs for request/response.



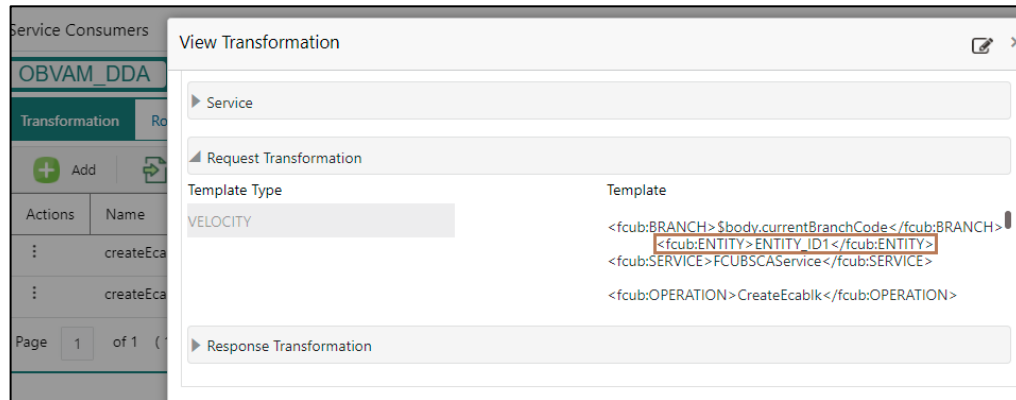
2.2.1.2 Consumer Services

Following 4 endpoints are required for 'Consumer Services' to be configured in OBRH:

1. Create an amount block (createECA)
2. Close/release amount block (closeECA)
3. External account check (EAC)
4. Create a transection (handofftoDDA)



As part of Multi-Entity changes, add the EntityId of DDA System under <fcub:ENTITY> </fcub:ENTITY> tags in velocity template for each operation as shown below.



2.2.1.2.1 closeECA

14.1 Request / Response

SERVICE-CONSUMER = "OBVAM_DDA"
SERVICE-CONSUMER-SERVICE="closeECA"

Request:

```
{
  "userID": "",
  "currentBranchCode": "",
  "ddaSystem": "",
  "ecaReferenceNo": "",
  "ddaReferenceNo": "",
  "createextRefNo": "",
  "source": "",
  "ecaCloseDetailsDTO": [
    {
      "accountNo": "",
      "accCurreny": "",
      "accountbranch": "",
      "blockStatus": ""
    }
  ]
}
```

Response:

```
{
  "MSGSTAT": ""
}
```

14.4 Request / Response

Same as above

2.2.1.2.2 EAC

14.1 Request / Response

SERVICE-CONSUMER = "OBVAM_DDA"
SERVICE-CONSUMER-SERVICE="EAC"

Request:

```
{  
  "userID": "",  
  "currentBranchCode": "",  
  "ddaSystem": "",  
  "realAccountNo": "",  
  "drCrIndicator": "",  
  "externalRefNo": "",  
  "mcyFlag": "",  
  "customerBranchCode": "",  
  "ccy": ""  
}
```

Response:

```
{  
  
  "isValidAccount": ""  
}
```

14.4 Request / Response

Same as above

2.2.1.2.3 CreateECA

14.1 Request / Response

SERVICE-CONSUMER = "OBVAM_DDA"
SERVICE-CONSUMER-SERVICE="handoffToDda"

Request:

```
{
  {
    "userID": "",
    "currentBranchCode": "",
    "ddaSystem": "",
    "transactionrefNo": "",
    "creatEextRefNo": "",
    "ecaReferenceNo": "",
    "source": "",
    "effectiveDate": "",
    "ecaBlockDetailsDTO": [
      {
        "accountNo": "",
        "accCurrency": "",
        "accountbranch": "",
        "blockStatus": "",
        "drCrIndicator": "",
        "sweepRequired": "",
        "partialBlkReqd": "",
        "remarks": "",
        "requestBlkAmount": "",
        "approvedBlkAmount": "",
        "outstandingBlkAmount": "",
        "partialReleaseAllowed": ""
      }
    ]
  }
}
```

Response:

```
{
  "MSGSTAT":"" ( SUCCESS/FAILUER)
  "{ERROR_CODE}":"{ERROR_DESC}" (if MSGSTAT = FAILUER)}
}
```

14.4 Request / Response

Same as above

2.2.1.2.4 handoffToDda

14.1 Request / Response

SERVICE-CONSUMER = "OBVAM_DDA"
SERVICE-CONSUMER-SERVICE="handoffToDda"

Request:

```
{
{
  "userID": "",
  "currentBranchCode": "",
  "ddaSystem": "",
  "externalReferenceNo": "",
  "sourceCode": "",
  "ecaEntriesDetailsDTO": [
    {
      "module": "",
      "transactionRefNo": "",
      "eventserialNo": "",
      "event": "",
      "accBranch": "",
      "accountNumber": "",
      "accCCY": "",
      "drCrIndicator": "",
      "amttag": "",
      "lcyAmt": 0,
      "trnDate": "",
      "valueDate": "",
      "ecaRefernceNo": "",
      "blockReleaseStatus": "",
      "chequeMandatory": "",
      "availBalReqd": "",
      "intraDayRelease": "",
      "availInfo": "",
      "salaryCredit": "",
      "sweepRequried": "",
      "escrow": "",
      "AMLMontoring": "",
      "considerForAccActivity": "",
      "balUpdThruPC": "",
      "txnNarrative": "",
      "txnCode": "",
      "relatedCustomer": "",
      "fcyAmount": 0,
      "exchrte": 0
    }
  ]
}
```

Response:

```
{  
  "MSGSTAT": ""  
}
```

14.4 Request / Response

Same as above

2.2.2 OBVAM-EXTERNAL-ACCOUNT Implementation

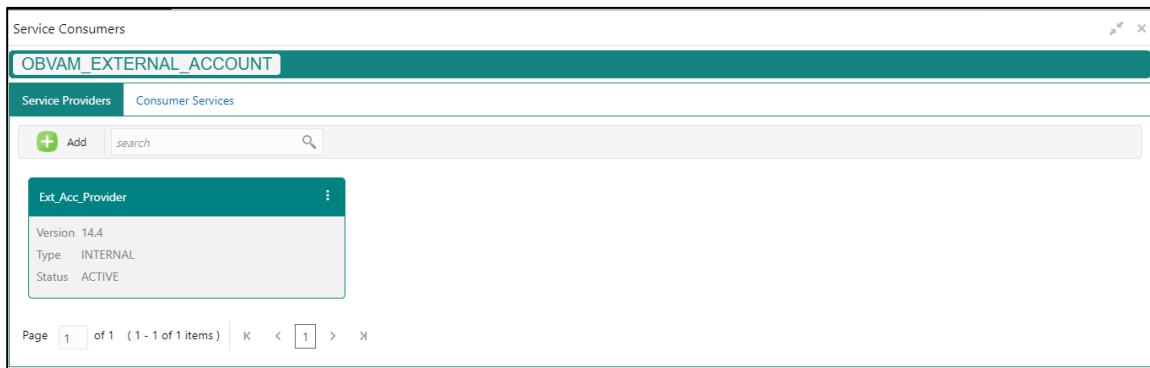
This is used when the account number needs to be generated externally. OBVAM's account number generation will be suppressed and externally generated account number will be assigned.

- OBVAM_EXTERNAL_ACCOUNT - ext_acc 14.4 (Consumer Service)
- API - /api-gateway/cmc-obrh-services/route/dispatch
- Headers –
 - SERVICE-CONSUMER - OBVAM_EXTERNAL_ACCOUNT
 - SERVICE-CONSUMER-SERVICE - ext_acc
 - REQUIRED_ACTION - VA / IBAN / VA_IBAN

NOTE: VA / IBAN / VA_IBAN – Choose of the option based on Branch Parameter configuration.

2.2.2.1 Configured Service Providers in OBRH

To configure the external system in OBRH, import WSDL / Swagger provided by external system.



Edit Service Provider

No data to display.

Service

Type
URL

WSDL

WSDL
SWAGGER

Operation

Import

No data to display.

Save

2.2.2.2 Consumer Services

2.2.2.2.1 ext_acc

Service Consumers		
OBVAM_EXTERNAL_ACCOUNT		
Service Providers Consumer Services		
Add search		
Actions	Name	Description
⋮	ext_acc	ext acc gen
Page 1 of 1 (1 - 1 of 1 items)		

Request:

```

{
  "branchCode": "",
  "virtualEntityId": "",
  "virtualEntityName": "",
  "realCustomerNo": "",
  "defaultAccCcy": "",
  "virtualAccProduct": "",
  "virtualAccountNo": "",
  "ibanRequired": "",
  "ibanAccNo": "",
  "realAccountNo": "",
  "virtualAccountName": "",
  "addressLine1": "",
  "addressLine2": "",
  "addressLine3": "",
  "addressLine4": "",
  "pincode": "",
  "countryCode": "",
  "accountPurpose": "",
  "interestCalcReq": "",
  "accountFrozen": "",
  "balChkForDebits": ""
}

```

```
"balAvailabilityOptions": "",
"fixedAmtFromPool": "",
"overdraftAllowed": "",
"fixedAmount": "",
"creditTxnsAllowed": "",
"debitTxnsAllowed": "",
"status": "",
"realAccLinkage": "",
"realAccountCcy": "",
"realAccountBrn": "",
"accOpenDate": "",
"accClosureDate": "",
"lastActivityDate": "",
"odStartDate": "",
"odEndDate": "",
"additionalFields": "",
"StructuredAddressDTO": [],
"sanctionChkStatus": ""
}
```

Response:

```
{

"virtualAccountNo": "",
"ibanAccNo": ""

}
```

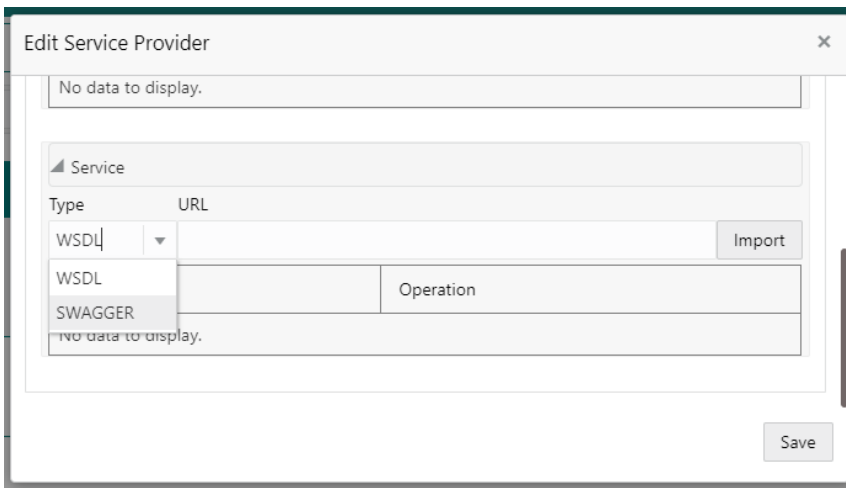
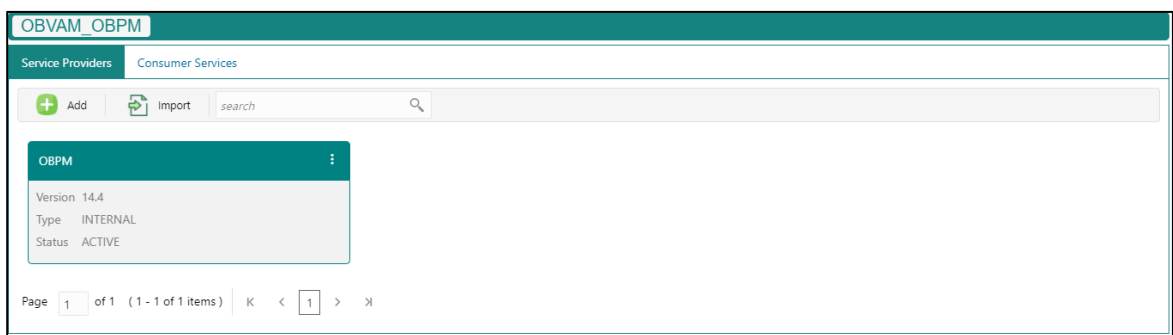
2.2.3 OBVAM-OBPM Implementation

This is used to query OBPM system for pending payments during account closure.

- OBVAM_OBPM - PendingPaymentQuery (Consumer Service)
- API - /api-gateway/cmc-obrh-services/route/dispatch
- Headers –
 - SERVICE-CONSUMER - OBVAM_OBPM
 - SERVICE-CONSUMER-SERVICE - PendingPaymentQuery

2.2.3.1 Configured Service Providers in OBRH

To configure the external system in OBRH, import WSDL / Swagger provided by external system.



2.2.3.2 Consumer Services

Service Consumers					
OBVAM_OBPM > Consumer Services > PendingPaymentQuery					
Transformation Routing					
Add Import search					
Actions	Name	Status	Product Processor	Implementation	Service
	obpm_PendingPaymentQuery	ACTIVE	OBPM 14.4	OBPM_Default	postPendingPaymentQuery - /payments/PendingPaymentQuery
Page 1 of 1 (1 - 1 of 1 items) K < 1 > X					

Request:

```
{
  "txnDet": {
    "customerAccount": ""
  },
  "header": {
    "functionId": "PMDPENDP",
    "action": "EXECUTEQUERY",
    "channel": "REST",
    "source": "MANL",
    "moduleId": "PM",
    "userId": "USER02", ** this user needs to be update as per OBPM user
    "userBranch": "HEL", ** this branch needs to be updated as per OBPM user's branch
    "transactionId": ""
  }
}
```

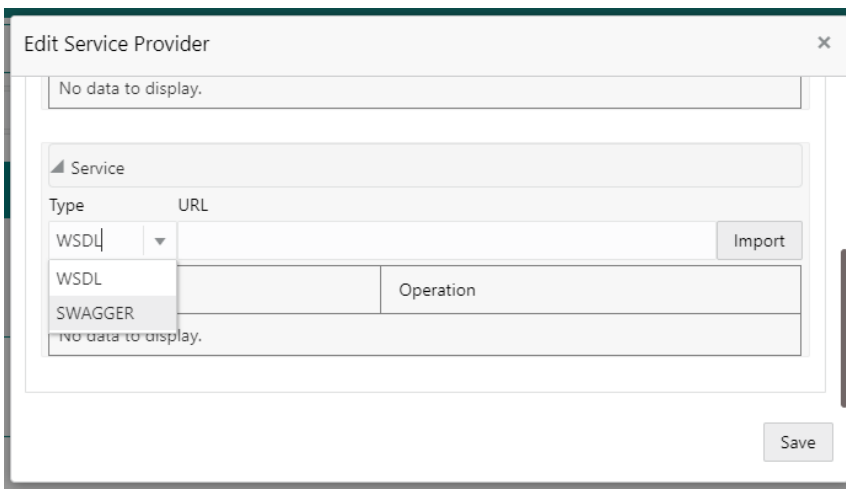
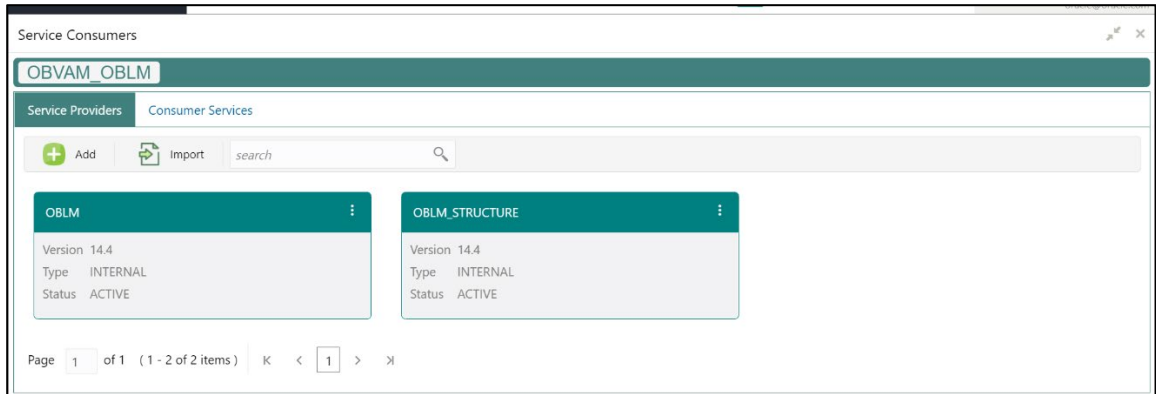
Response:

```
{
  "status": "",
  "errorDTOList": [{
    "errorCode": "",
    "errorMessage": "",
    "additionalInfo": ""
  }]
}
```

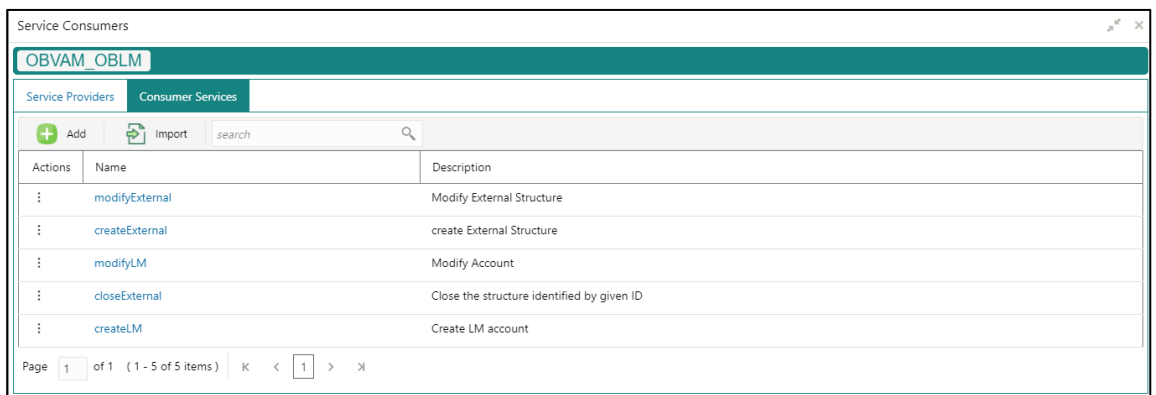
2.2.4 OBVAM-OBLM Implementation

Following are the OBLM APIs which are configured using OBRH:

2.2.4.1 Configured Service Providers in OBRH



2.2.4.2 Consumer Services



2.2.4.2.1 createExternal

Request:

```
{
  "data": [
    {
      "modNo": int,
      "versionNo": int,
      "structureId": "string",
      "structureDescription": "string",
      "customerId": "string",
      "customerName": "string",
      "structureType": "string",
      "structurePriority": 0,
      "effectiveDate": "string",
      "endDate": "string",
      "headerCurrency": "string",
      "multiBankFlag": "string",
      "crossBorderFlag": "string",
      "crossCurrencyFlag": "string",
      "balanceType": "string",
      "structureFrequency": "string",
      "currencyRateType": "string",
      "allowSweepOnCurrencyHol": "string",
      "interestMethod": "string",
      "ratePickUp": "string",
      "nextRunDate": "string",
      "eodExecution": "string",
      "reverseFrequency": "string",
      "instructionType": "string",
      "reallocationMethod": "string",
      "holidayTreatment": "string",
      "maxBackwardDays": "string",
      "backwardTreatment": "string",
      "centralAccountNumber": "string",
      "centralAccountBranch": "string",
      "centralAccountCurrency": "string",
      "nextRunDateReverse": "string",
      "prevRunDateReverse": "string",
      "structureStatus": "string",
      "investmentSweep": "string",
      "considerPostSweepBalance": "string",
      "fxRatePickup": "string",
      "limitTrackingFlag": "string",
      "sourceSystem": "string",
      "systemAccountNumber": "string",
      "systemAccountBranch": "string",
      "systemAccountCurrency": "string",
      "LmmTmStructureDetailsDTO": [
        {
          "id": "string",
          "structureMasterId": "string",
```

```

"accountNumber": "string",
"branchCode": "string",
"accountCurrency": "string",
"accCategory": "string",
"isExternal": "string",
"acyAvailableBal": "string",
"bankCode": "string",
"countryId": "string",
"cityId": "string",
"parentAccountNumber": "string",
"parentAccountBranch": "string",
"parentAccountCurrency": "string",
"bookingAccountNumber": "string",
"bookingAccountBranch": "string",
"bookingAccountCurrency": "string",
"rateType": "string",
"accountType": "string",
"sweepPriority": "string",
"isTwoWay": "string",
"reverseSweepFrequency": "string",
"twowaySweepPriority": "string",
"onlineBalanceFetch": "string",
"partialReverseSweep": "string",
"isHold": "string",
"eodExecution": "string",
"ratePickUp": "string",
"reallocationMethod": "string",
"allowReverseSweep": "string",
"isNominatedAccount": "string",
"accountLevel": 1,
"centralAccountNumber": "string",
"centralAccountBranch": "string",
"centralAccountCurrency": "string",
"percentageShare": "string",
"percentageChildShare": "string",
"partialTransferAllowed": "string",
"LmmTmStructureInstructionDTO": "string",
"isNotional": "string"
}
],
"LmmTmStructureAccountsDTO": [
{
"id": "string",
"structureMasterId": "string",
"accountNumber": "string",
"accountBranch": "string",
"accountCurrency": "string",
"isSelected": "string",
"accCategory": "string",
"accountType": "string",
"isExternal": "string",
"isNotional": "string"
}
]

```

```

    ]
  }
]
}

```

Response:

```

{
  "data": {
    "messages": {
      "keyId": "string",
      "status": "String",
      "codes": [
        {
          "args": [{}],
          "arg": "string",
          "information": boolean,
          "override": boolean,
          "error": boolean,
          "overrideAuthLevelsReqd": "string",
          "code": "string",
          "language": "string",
          "desc": "string",
          "type": "string"
        }
      ],
      "requestId": "string",
      "httpStatusCode": "string",
      "overrideAuthLevelsReqd": "string"
    },
    "data": {}
  },
  "messages": {
    "keyId": "string",
    "status": "string",
    "codes": [],
    "requestId": "string",
    "httpStatusCode": "string",
    "overrideAuthLevelsReqd": "string"
  }
}

```

2.2.4.2.2 modifyExternal

Request:

```
{
  "data": [
    {
      "modNo": int,
      "versionNo": int,
      "structureId": "string",
      "structureDescription": "string",
      "customerId": "string",
      "customerName": "string",
      "structureType": "string",
      "structurePriority": 0,
      "effectiveDate": "string",
      "endDate": "string",
      "headerCurrency": "string",
      "multiBankFlag": "string",
      "crossBorderFlag": "string",
      "crossCurrencyFlag": "string",
      "balanceType": "string",
      "structureFrequency": "string",
      "currencyRateType": "string",
      "allowSweepOnCurrencyHol": "string",
      "interestMethod": "string",
      "ratePickUp": "string",
      "nextRunDate": "string",
      "eodExecution": "string",
      "reverseFrequency": "string",
      "instructionType": "string",
      "reallocationMethod": "string",
      "holidayTreatment": "string",
      "maxBackwardDays": "string",
      "backwardTreatment": "string",
      "centralAccountNumber": "string",
      "centralAccountBranch": "string",
      "centralAccountCurrency": "string",
      "nextRunDateReverse": "string",
      "prevRunDateReverse": "string",
      "structureStatus": "string",
      "investmentSweep": "string",
      "considerPostSweepBalance": "string",
      "fxRatePickup": "string",
      "limitTrackingFlag": "string",
      "sourceSystem": "string",
      "systemAccountNumber": "string",
      "systemAccountBranch": "string",
      "systemAccountCurrency": "string",
      "LmmTmStructureDetailsDTO": [
        {
          "id": "string",
          "structureMasterId": "string",
          "accountNumber": "string",

```

```

        "branchCode": "string",
        "accountCurrency": "string",
        "accCategory": "string",
        "isExternal": "string",
        "acyAvailableBal": "string",
        "bankCode": "string",
        "countryId": "string",
        "cityId": "string",
        "parentAccountNumber": "string",
        "parentAccountBranch": "string",
        "parentAccountCurrency": "string",
        "bookingAccountNumber": "string",
        "bookingAccountBranch": "string",
        "bookingAccountCurrency": "string",
        "rateType": "string",
        "accountType": "string",
        "sweepPriority": "string",
        "isTwoWay": "string",
        "reverseSweepFrequency": "string",
        "twowaySweepPriority": "string",
        "onlineBalanceFetch": "string",
        "partialReverseSweep": "string",
        "isHold": "string",
        "eodExecution": "string",
        "ratePickUp": "string",
        "reallocationMethod": "string",
        "allowReverseSweep": "string",
        "isNominatedAccount": "string",
        "accountLevel": 1,
        "centralAccountNumber": "string",
        "centralAccountBranch": "string",
        "centralAccountCurrency": "string",
        "percentageShare": "string",
        "percentageChildShare": "string",
        "partialTransferAllowed": "string",
        "LmmTmStructureInstructionDTO": "string",
        "isNotional": "string"
    },
    "LmmTmStructureAccountsDTO": [
        {
            "id": "string",
            "structureMasterId": "string",
            "accountNumber": "string",
            "accountBranch": "string",
            "accountCurrency": "string",
            "isSelected": "string",
            "accCategory": "string",
            "accountType": "string",
            "isExternal": "string",
            "isNotional": "string"
        }
    ]
}

```

```
]
}
```

Response:

```
{
  "data": {
    "messages": {
      "keyId": "string",
      "status": "String",
      "codes": [
        {
          "args": [{}],
          "arg": "string",
          "information": boolean,
          "override": boolean,
          "error": boolean,
          "overrideAuthLevelsReqd": "string",
          "code": "string",
          "language": "string",
          "desc": "string",
          "type": "string"
        }
      ],
      "requestId": "string",
      "httpStatusCode": "string",
      "overrideAuthLevelsReqd": "string"
    },
    "data": {}
  },
  "messages": {
    "keyId": "string",
    "status": "string",
    "codes": [],
    "requestId": "string",
    "httpStatusCode": "string",
    "overrideAuthLevelsReqd": "string"
  }
}
```

2.2.4.2.3 closeExternal

Request:

```
{
  "mod":int,
  "remarks":"string",
  "keyId":int
}
```

Response:

```
{
  "data": {
    "messages": {
      "keyId": "string",
      "status": "String",
      "codes": [
        {
          "args": [{}],
          "arg": "string",
          "information": boolean,
          "override": boolean,
          "error": boolean,
          "overrideAuthLevelsReqd": "string",
          "code": "string",
          "language": "string",
          "desc": "string",
          "type": "string"
        }
      ],
      "requestId": "string",
      "httpStatusCode": "string",
      "overrideAuthLevelsReqd": "string"
    },
    "data": {}
  },
  "messages": {
    "keyId": "string",
    "status": "string",
    "codes": [],
    "requestId": "string",
    "httpStatusCode": "string",
    "overrideAuthLevelsReqd": "string"
  }
}
```

2.2.4.2.4 createLM

Request:

```
{
  "mod":int
  "sourceSystem": "string",
  "sourceSystemAccNo": "string",
  "iban": "string",
  "logCode": "string",
  "accountNumber": "string",
  "accountDescription": "string",
  "branchCode": "string",
  "bankCode": "string",
  "cityId": "string",
  "countryId": "string",
  "currency": "string",
  "customerId": "string",
  "customerName": "string",
  "accCreatedDate": "yyyy-mm-dd",
  "accOpenDate": "string",
  "accClosedDate": "yyyy-mm-dd",
  "acyAvailableBal": 0,
  "acyCurrentBal": 0,
  "lastBalUpdateTime": "yyyy-mm-dd",
  "isActive": "string",
  "isExternal": "string",
  "isResident": "string",
  "isNotional": "string",
  "acyCasaBlockedAmt": 0,
  "accCategory": "string",
  "drLimit": 0,
  "crLimit": 0,
  "ilRouteCode": "string",
  "lineId": "string",
  "limitCcy": "string",
  "region": "string",
  "uncollFundsLimit": 0,
  "uncollAvailable": 0,
  "balCompParticipation": "string",
  "odLimit": 0,
  "isDebitUnlimited": "string",
  "groupCode": "string",
  "groupDescription": "string",
  "isNoCredit": "string",
  "isNoDebit": "string",
  "isFrozen": "string",
  "isBlocked": "string",
  "countryCode": "string",
  "address4": "string",
  "address3": "string",
  "address2": "string",
  "address1": "string",
  "isDormant": "string",
}
```

```

"isProspect": "string",
"isVirtual": "string",
"isICRequired": "string",
"isMultiCurrencyAccount": "string",
"multiCcyAccountNumber": "string",
"LmmTmMultiCcyAccountDTO": [
  {
    "linkedAccountNumber": "string",
    "linkedAccountBranch": "string",
    "linkedAccountCurrency": "string",
    "isPrimary": "string",
    "multiCcyAccountNumber": "string"
  }
]
}

```

Response:

```

{
  "data": {
    "messages": {
      "keyId": "string",
      "status": "String",
      "codes": [
        {
          "args": [{}],
          "arg": "string",
          "information": boolean,
          "override": boolean,
          "error": boolean,
          "overrideAuthLevelsReqd": "string",
          "code": "string",
          "language": "string",
          "desc": "string",
          "type": "string"
        }
      ],
      "requestId": "string",
      "httpStatusCode": "string",
      "overrideAuthLevelsReqd": "string"
    },
    "data": {}
  },
  "messages": {
    "keyId": "string",
    "status": "string",
    "codes": [],
    "requestId": "string",
    "httpStatusCode": "string",
    "overrideAuthLevelsReqd": "string"
  }
}

```

2.2.4.2.5 modifyLM

Request:

```
{
  "mod":int
  "sourceSystem": "string",
  "sourceSystemAccNo": "string",
  "iban": "string",
  "logCode": "string",
  "accountNumber": "string",
  "accountDescription": "string",
  "branchCode": "string",
  "bankCode": "string",
  "cityId": "string",
  "countryId": "string",
  "currency": "string",
  "customerId": "string",
  "customerName": "string",
  "accCreatedDate": "yyyy-mm-dd",
  "accOpenDate": "string",
  "accClosedDate": "yyyy-mm-dd",
  "acyAvailableBal": 0,
  "acyCurrentBal": 0,
  "lastBalUpdateTime": "yyyy-mm-dd",
  "isActive": "string",
  "isExternal": "string",
  "isResident": "string",
  "isNotional": "string",
  "acyCasaBlockedAmt": 0,
  "accCategory": "string",
  "drLimit": 0,
  "crLimit": 0,
  "ilRouteCode": "string",
  "lineId": "string",
  "limitCcy": "string",
  "region": "string",
  "uncollFundsLimit": 0,
  "uncollAvailable": 0,
  "balCompParticipation": "string",
  "odLimit": 0,
  "isDebitUnlimited": "string",
  "groupCode": "string",
  "groupDescription": "string",
  "isNoCredit": "string",
  "isNoDebit": "string",
  "isFrozen": "string",
  "isBlocked": "string",
  "countryCode": "string",
  "address4": "string",
  "address3": "string",
  "address2": "string",
  "address1": "string",
  "isDormant": "string",
}
```

```

"isProspect": "string",
"isVirtual": "string",
"isICRequired": "string",
"isMultiCurrencyAccount": "string",
"multiCcyAccountNumber": "string",
"LmmTmMultiCcyAccountDTO": [
  {
    "linkedAccountNumber": "string",
    "linkedAccountBranch": "string",
    "linkedAccountCurrency": "string",
    "isPrimary": "string",
    "multiCcyAccountNumber": "string"
  }
]
}

```

Response:

```

{
  "data": {
    "messages": {
      "keyId": "string",
      "status": "String",
      "codes": [
        {
          "args": [{}],
          "arg": "string",
          "information": boolean,
          "override": boolean,
          "error": boolean,
          "overrideAuthLevelsReqd": "string",
          "code": "string",
          "language": "string",
          "desc": "string",
          "type": "string"
        }
      ],
      "requestId": "string",
      "httpStatusCode": "string",
      "overrideAuthLevelsReqd": "string"
    },
    "data": {}
  },
  "messages": {
    "keyId": "string",
    "status": "string",
    "codes": [],
    "requestId": "string",
    "httpStatusCode": "string",
    "overrideAuthLevelsReqd": "string"
  }
}

```