

OBRH - OBVAM Integration Guide
Oracle Banking Virtual Account Management

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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:

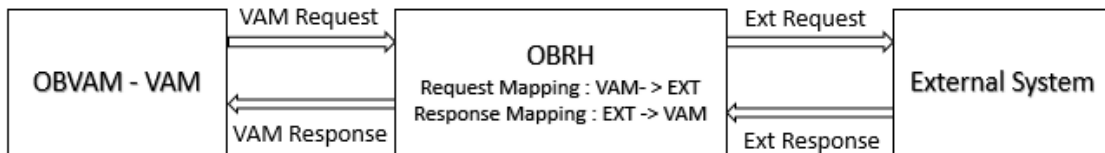
Abbreviation	Description
OBRH	Oracle Banking Routing Hub
OBVAM	Oracle Banking Virtual Account Management

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

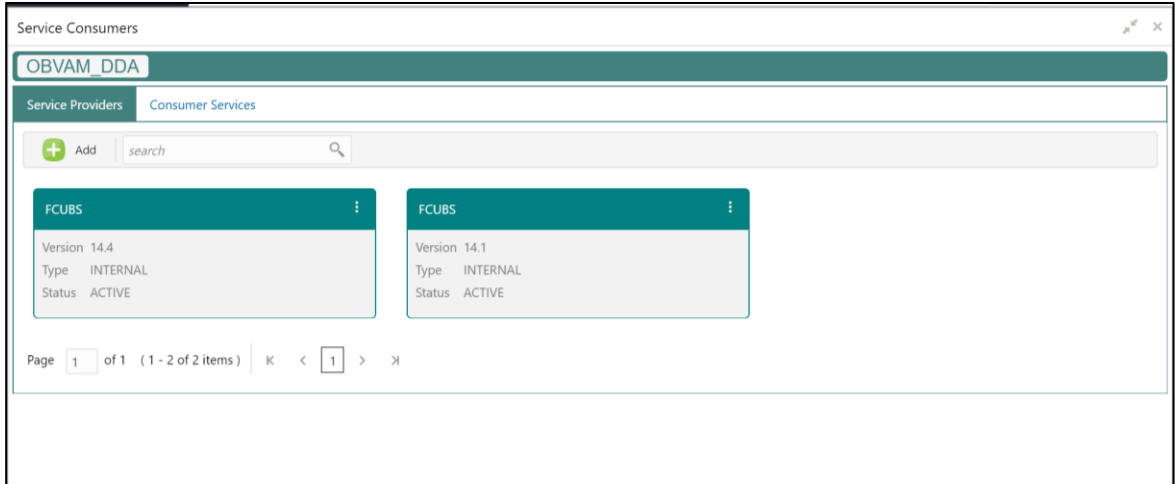
4. handofftoDDA

Host: FCUBS

Version: 14.1 / 14.4

2.2.1.1 Configured Service Providers in OBRH

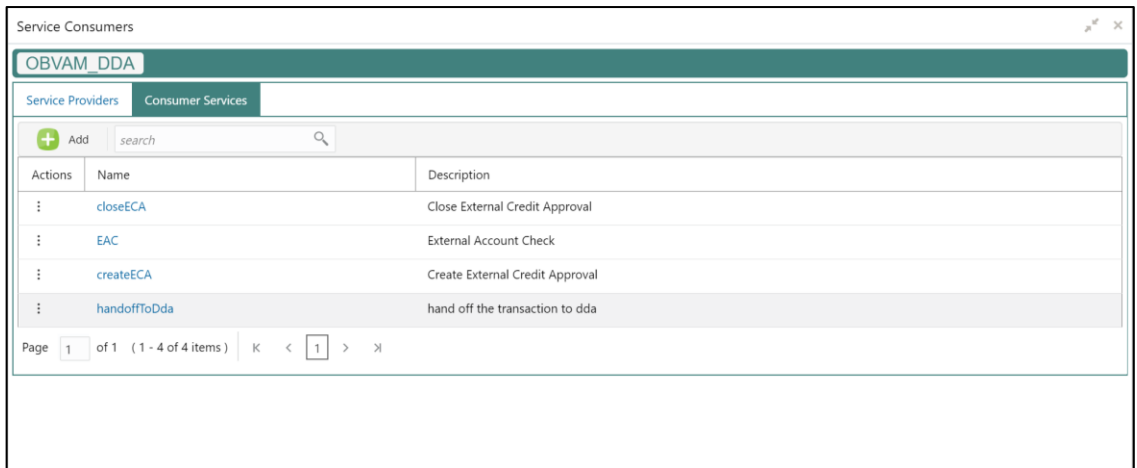
Multiple DDA providers are added to configure FCUBS 14.1 and FCUBS 14.4. They use SOAP APIs for request/response.



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)



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": "",
        "accCurrency": "",
        "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**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": "",

```

```
        "sweepRequired": "",
        "escrow": "",
        "AMLMonitoring": "",
        "considerForAccActivity": "",
        "balUpdThruPC": "",
        "txnNarrative": "",
        "txnCode": "",
        "relatedCustomer": "",
        "fcyAmount": 0,
        "exchrates": 0
    }
]
}
```

Response:

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

14.4 Request / Response

Same as above

2.2.2 OBVAM-EXTERNAL-ACCOUNT Implementation

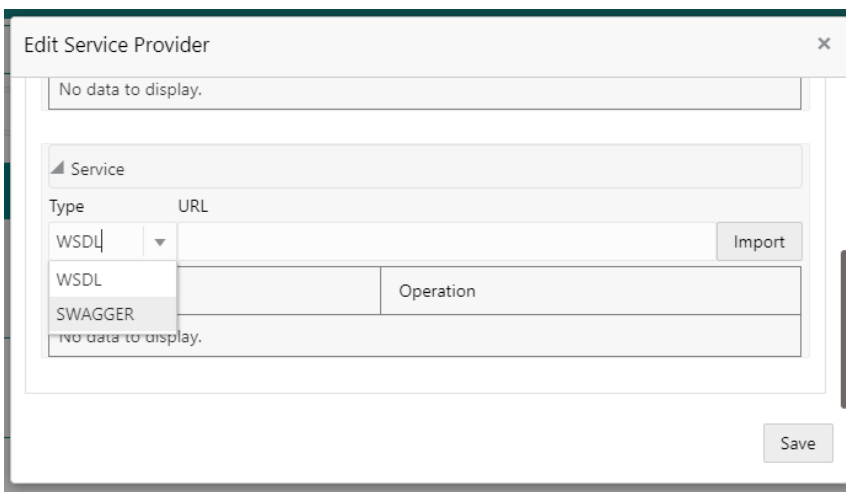
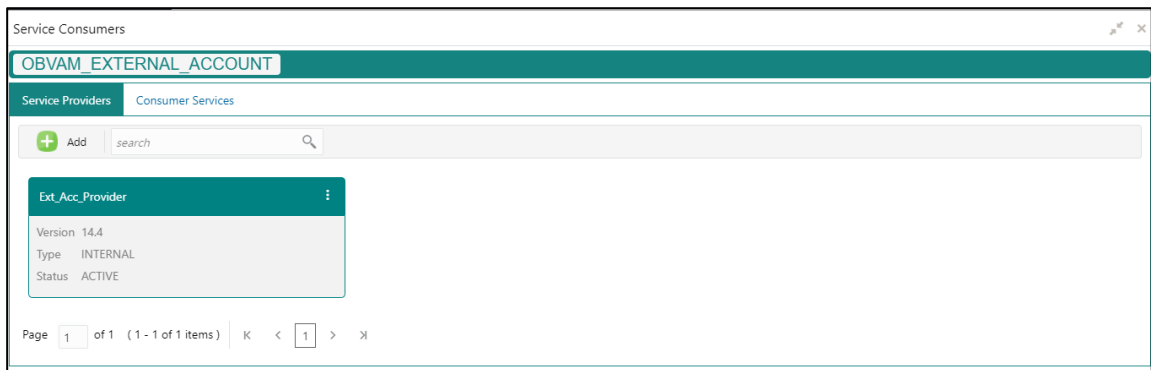
This is used when the account number needs to be generated externally. OBVAM's account number generation will be suppressed and externally generated account number will be assigned.

- 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.

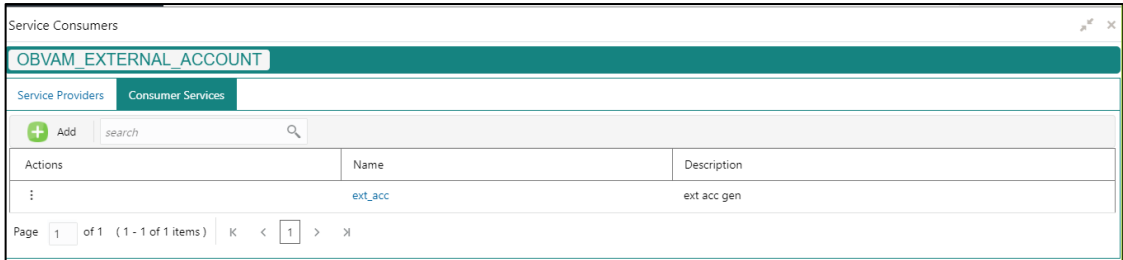
2.2.2.1 Configured Service Providers in OBRH

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



2.2.2.2 Consumer Services

2.2.2.2.1 ext_acc



The screenshot shows a web interface for 'Service Consumers'. At the top, there is a header 'OBVAM EXTERNAL ACCOUNT'. Below it, there are tabs for 'Service Providers' and 'Consumer Services'. A search bar with a magnifying glass icon is present. Below the search bar is a table with columns 'Actions', 'Name', and 'Description'. The table contains one row with a vertical ellipsis in the 'Actions' column, 'ext_acc' in the 'Name' column, and 'ext acc gen' in the 'Description' column. At the bottom of the table, there is a pagination control showing 'Page 1 of 1 (1 - 1 of 1 items)' and navigation arrows.

Actions	Name	Description
⋮	ext_acc	ext acc gen

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": ""  
}
```

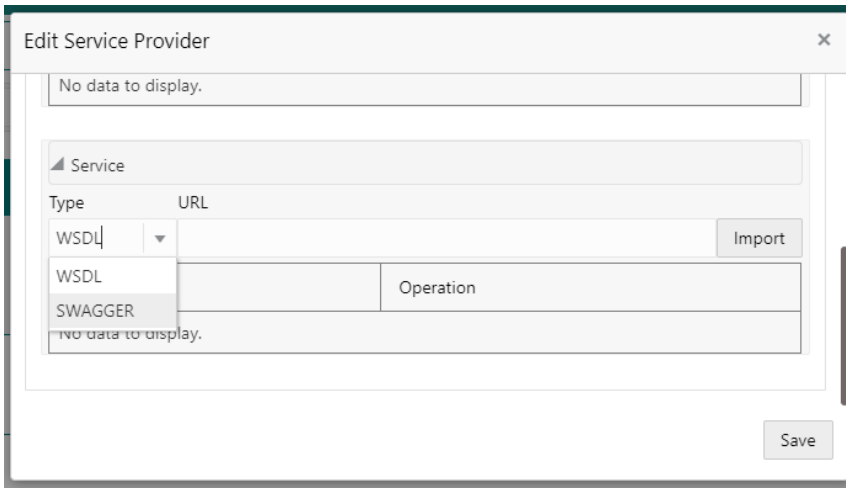
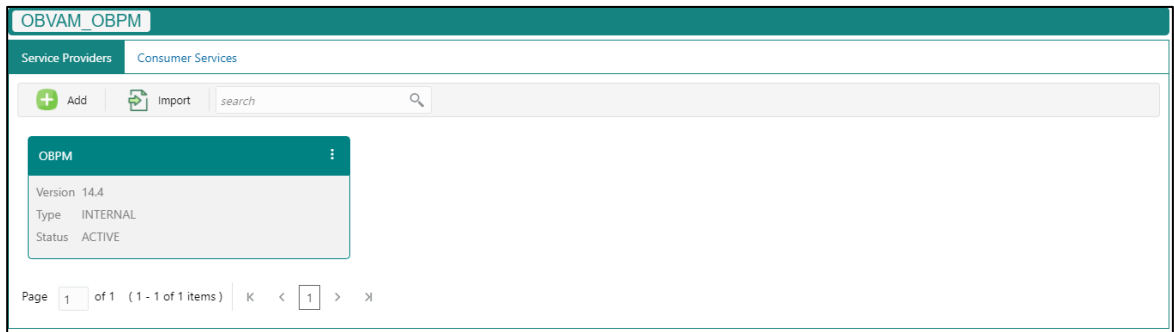
2.2.3 OBVAM-OBPM Implementation

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

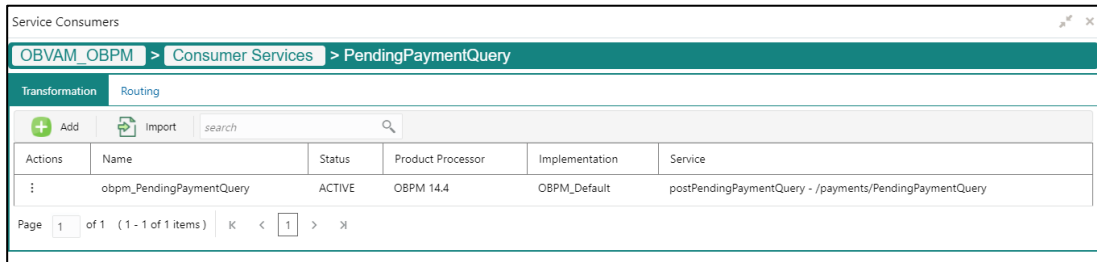
- OBVAM_OBPM - PendingPaymentQuery (Consumer Service)
- API - /api-gateway/cmc-obrh-services/route/dispatch
- Headers –
 - SERVICE-CONSUMER - OBVAM_OBPM
 - SERVICE-CONSUMER-SERVICE - PendingPaymentQuery

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



The screenshot shows a web application window titled "Service Consumers". The breadcrumb navigation is "OBVAM_OBPM > Consumer Services > PendingPaymentQuery". There are two tabs: "Transformation" and "Routing". Below the tabs are buttons for "Add", "Import", and a search field. A table displays the following data:

Actions	Name	Status	Product Processor	Implementation	Service
:	obpm_PendingPaymentQuery	ACTIVE	OBPM 14.4	OBPM_Default	postPendingPaymentQuery - /payments/PendingPaymentQuery

At the bottom, there is a pagination control showing "Page 1 of 1 (1 - 1 of 1 items)" and navigation arrows.

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": ""
  }
}
```

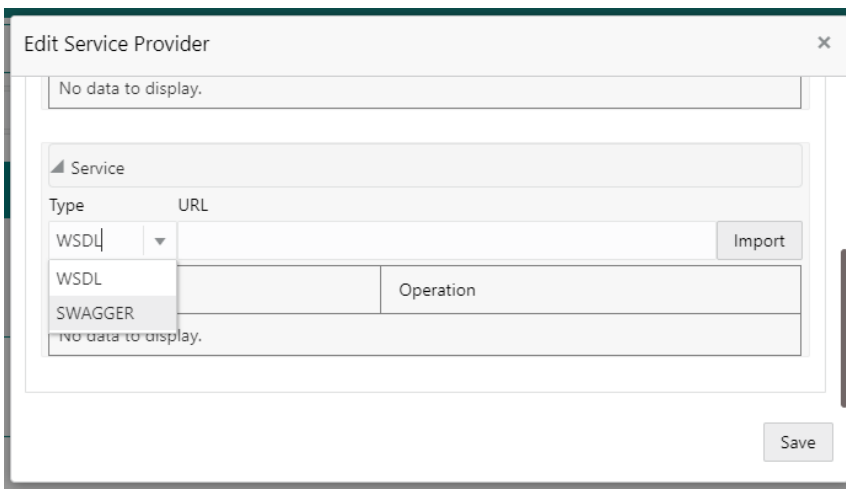
Response:

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

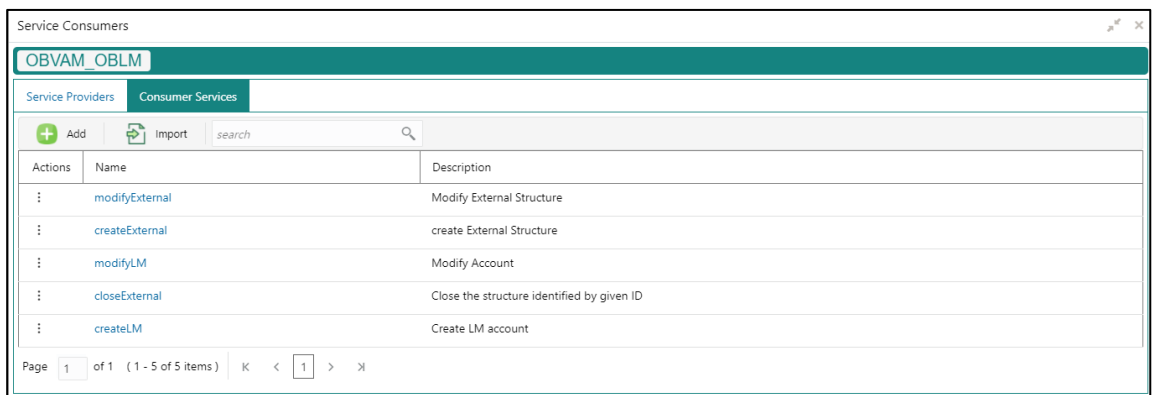
2.2.4 OBVAM-OBLM Implementation

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",
    "statusCode": "string",
    "overrideAuthLevelsReqd": "string"
},
"data": {}
},
"messages": {
    "keyId": "string",
    "status": "string",
    "codes": [],
    "requestId": "string",
    "statusCode": "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"
}
}
```