

Oracle® Banking Virtual Account Management

Oracle Banking Routing Hub Integration Guide



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Purpose

This guide provides information about the APIs configured in Oracle Banking Virtual Account Management through Oracle Banking Routing Hub. These APIs are configured to use the jars directly for the endpoint for different APIs like amount block, transaction journaling etc.

Before You Begin

User Can refer the guide **Oracle Banking Getting Started User Guide** for common elements, including Symbols and Icons, Conventions Definitions, and so forth.

Module Prerequisite

Specify **User Name** and **Password**, and login to **Home** screen.

Module Definitions

Virtual Account

A virtual account is a system-generated, logical sub-account nested within a physical, or master, bank account, used to identify and track transactions from different sources or for different purposes.

Amount Block

An amount block is that part of the balance in a customer's account, which is reserved for a specific purpose.

Audience

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

Table 1 Audience

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

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](#).

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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

The related documents are as follows:

- *Oracle Banking Common Core User Guide*
- *Oracle Banking Getting Started User Guide*
- *Routing Hub Configuration User 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.
monospace	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 are dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of acronyms and abbreviations that are used in this guide are as follows:

Table 2 Acronyms and Abbreviations

Abbreviation	Description
API	Application Programming Interface
ECA	External Credit Approval
REST	Representational State Transfer
URL	Uniform Resource Locator

Module Postrequisite

Once done with Account Configuration, User should Logout by clicking logout at the right corner.

1

Integration Guide

This topic provides information about the APIs configured in Oracle® Banking Virtual Account Management through Oracle Banking Routing Hub.

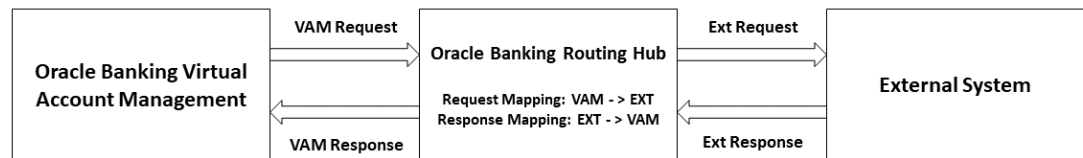
- [Introduction](#)
This topic provides the overview about Oracle Banking Routing Hub.
- [APIs configured using Oracle Banking Routing Hub](#)
This topic describes about the various APIs configured using Oracle Banking Routing Hub.

1.1 Introduction

This topic provides the overview about Oracle Banking Routing Hub.

Oracle Banking Routing Hub enables seamless & standardised integrations between FSGBU Banking Products using configurations provided as part of the product Infrastructure.

Figure 1-1 Oracle Banking Routing Hub Integration



For more details on configuration, refer to ***Routing Hub Configuration User Guide***.

1.2 APIs configured using Oracle Banking Routing Hub

This topic describes about the various APIs configured using Oracle Banking Routing Hub.

- [DDA Implementation](#)
This topic provides the API information for DDA Implementation.
- [EXTERNAL ACCOUNT Implementation](#)
This topic provides the API information for EXTERNAL ACCOUNT Implementation.
- [Oracle Banking Payments Implementation](#)
This topic provides the API information for Oracle Banking Payments Implementation.
- [Interest and Charges Implementation](#)
This topic provides the API information for Interest and Charges Implementation.

- [Oracle Banking Liquidity Management Implementation](#)
This topic provides the API information for Oracle Banking Liquidity Management Implementation.
- [Oracle Banking Host to Host Implementation](#)
This topic provides the API information for Oracle Banking Host to Host Implementation.
- [EXTERNAL IDENTIFIER Implementation](#)
This topic provides the API information for EXTERNAL IDENTIFIER Implementation.
- [OBRH JSON 14.8.1.0.0](#)
This topic provides the OBRH JSON details.

1.2.1 DDA Implementation

This topic provides the API information for DDA Implementation.

The following APIs are configured using Oracle Banking Routing Hub.

Table 1-1 DDA Implementation - Parameters

API	Host
closeECA	FCUBS OBA
EAC	FCUBS OBA
createECA	FCUBS OBA
handofftoDDA	FCUBS OBA

The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

- [Service Providers - DDA](#)
This topic describes about the service providers configuration for DDA systems.
- [Environment Variable Configuration](#)
This topic describes the systematic instruction to configure the environment variables for DDA systems.
- [Consumer Services - DDA](#)
This topic describes about the consumer services required for DDA Implementation.

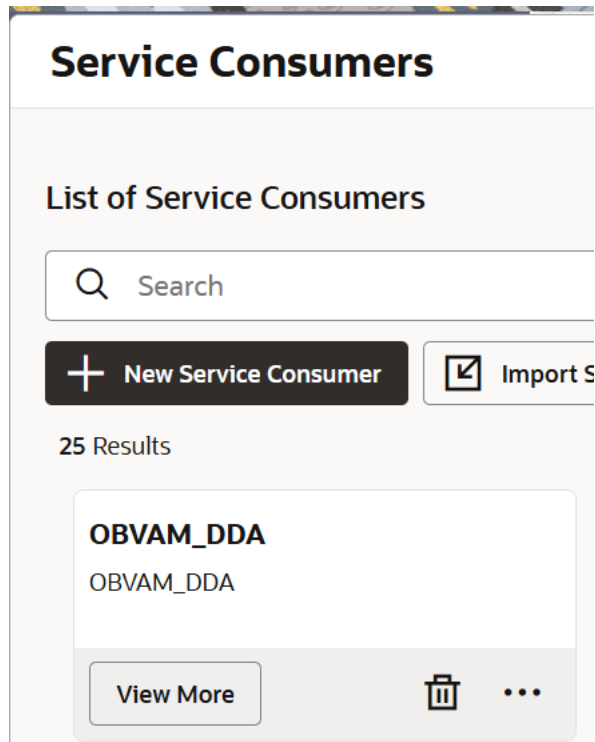
1.2.1.1 Service Providers - DDA

This topic describes about the service providers configuration for DDA systems.

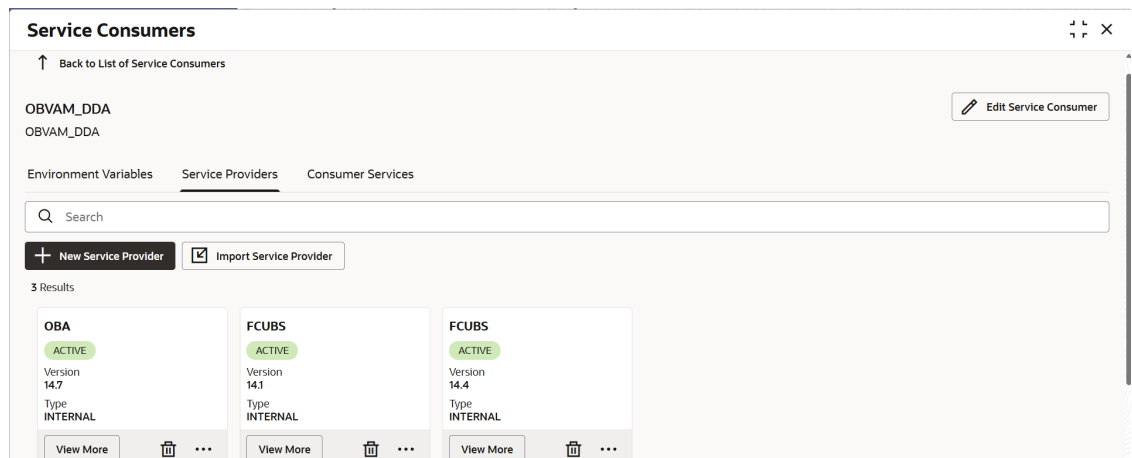
Multiple DDA providers are added to configure different versions of FCUBS. They use SOAP APIs for request/response. Oracle Banking Virtual Account Management also supports the integration to Oracle Banking Accounts. They use REST APIs for request/response.

On **Service Consumer** screen, click on **view more** option for **OBVAM_DDA** tile.

Figure 1-2 Service Providers - DDA



On **Service Consumer** screen, click on **view more** option for **OBVAM_DDA** tile.



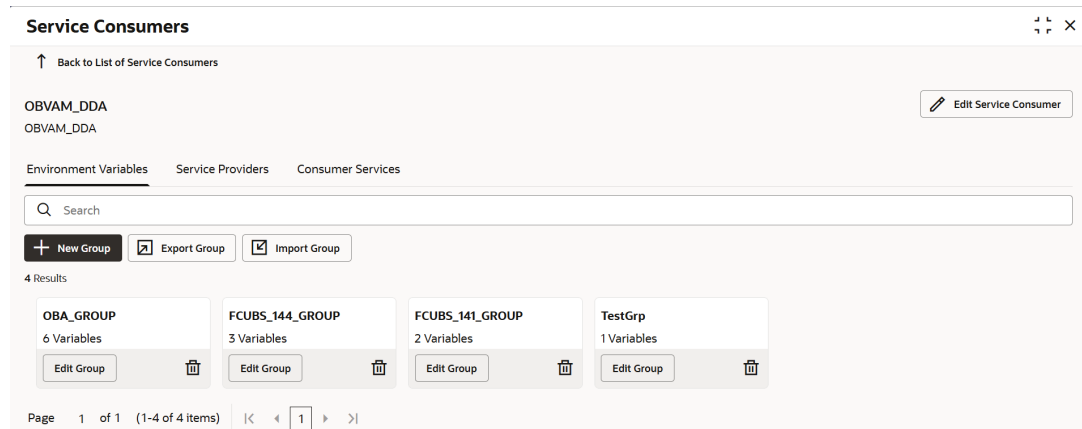
1.2.1.2 Environment Variable Configuration

This topic describes the systematic instruction to configure the environment variables for DDA systems.

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code, Entity ID.

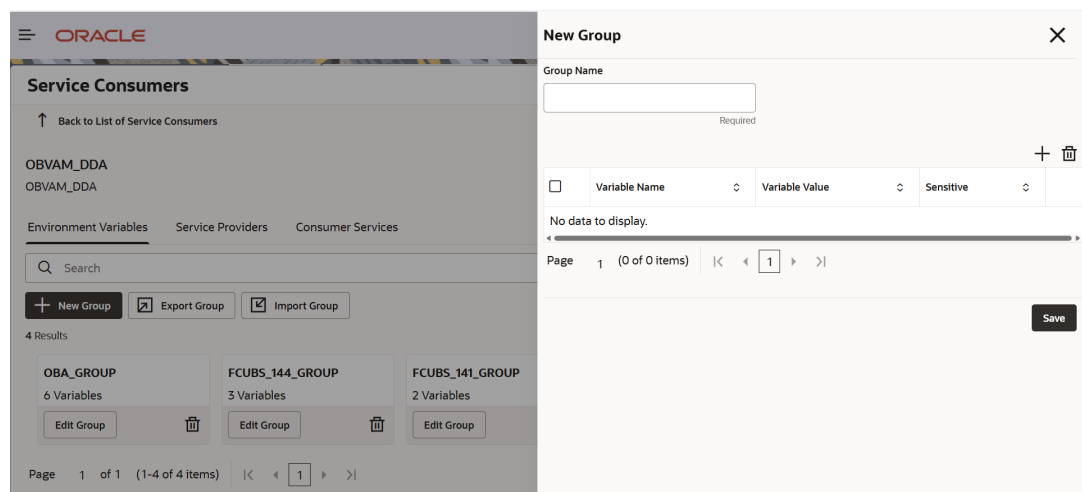
1. On **Service Consumers**Screen, click **view more** option for **OBVAM_DDA** tile

It launches the Environment variables tab and lists already available environment groups.

Figure 1-3 Environment variables

- For new environment variable configuration, Under **Environment Variables** section, click on **New Group**

The **New Group** screen displays.



- On the New Group screen, create the environment group. Give name to add the environment new group.
- To add the new environment variables, click +icon. And specify the environment variable and its value.
- Once all the required environment variables are configured, click Save button to save environment variable and its group.

1.2.1.3 Consumer Services - DDA

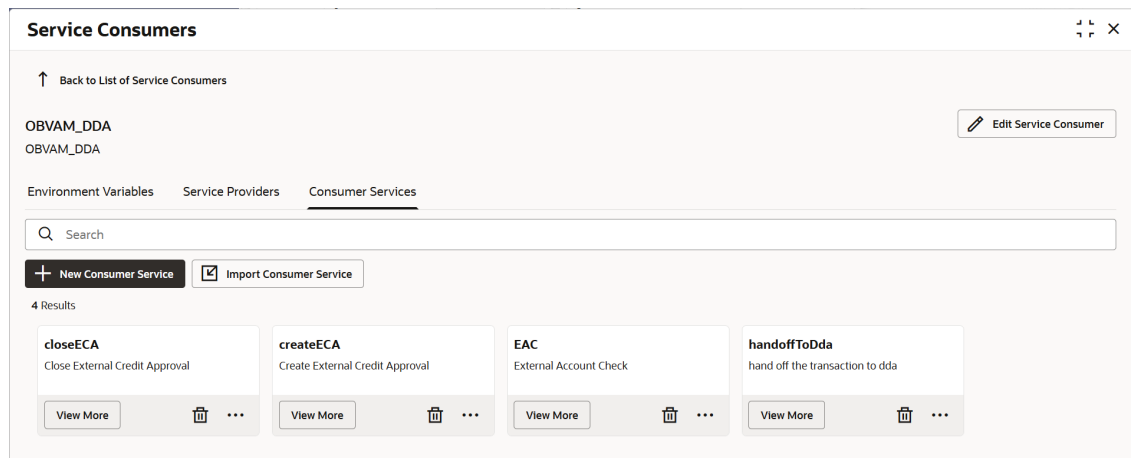
This topic describes about the consumer services required for DDA Implementation.

The below endpoints must be configured under Consumer Services in Oracle Banking Routing Hub:

- Create an amount block (createECA)
- Close/release amount block (closeECA)
- External account check (EAC)

4. Create a transaction (handofftoDDA)

Figure 1-4 Consumer Services - DDA

**createECA**

This API enables the user to create an amount block.

SERVICE-CONSUMER = "OBVAM_DDA"

SERVICE-CONSUMER-SERVICE="createECA"

Request:

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

```
]
}
```

Response:

```
{
  "MSGSTAT": " " (SUCCESS/FAILURE)
  "RABLOCKDETAILS":
  [
    {
      "RealAccountNumber": "{Real Account Number}",
      "BLOCKREFERENCENO": "{Block Reference Number}"
    }
  ]
  "DDAREFERENCENO": "{DDA reference number}"
  "{ERROR_CODE}": "{ERROR_DESC}" (if MSGSTAT = FAILURE)
}
```

closeECA

This API enables the user to close/release the amount block.

SERVICE-CONSUMER = "OBVAM_DDA"

SERVICE-CONSUMER-SERVICE = "closeECA"

Request:

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

Response:

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

EAC

This API enables the user to perform an external account check.

SERVICE-CONSUMER = "OBVAM_DDA"

SERVICE-CONSUMER-SERVICE = "ECA"

Request:

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

Response:

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

handoffToDda

This API enables the user to create a transaction.

SERVICE-CONSUMER = "OBVAM_DDA"

SERVICE-CONSUMER-SERVICE = "handoffToDda"

Request:

```
{
  "currentUserID": "",
  "currentBranchCode": "",
  "action": "",
  "sourceReferenceNo": "",
  "ddaSystem": "",
  "externalReferenceNo": "",
  "source": "",
  "sourceReferenceNo": "",
  "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,
        "exchrates": 0,
        "accountEntryType": "",
        "forceDebit": "",
        "ecaBlockReferenceNumber" : "",
        "accountingRefNo" : ""
    }
}
}

```

Response:

```

{
  "MSGSTAT": "",
  "ACCOUNTINGDETAILS":
  [
    {
      "AccountNumber": "",
      "accountingRefNo": "",
      "eventserialNo": ""
    }
  ]
}

```

1.2.2 EXTERNAL ACCOUNT Implementation

This topic provides the API information for EXTERNAL ACCOUNT Implementation.

This API is used when the account number needs to be generated externally. Oracle Banking Virtual Account Management's account number generation will be suppressed and externally generated account number will be assigned.

The following API is configured using Oracle Banking Routing Hub:

1. ext_acc

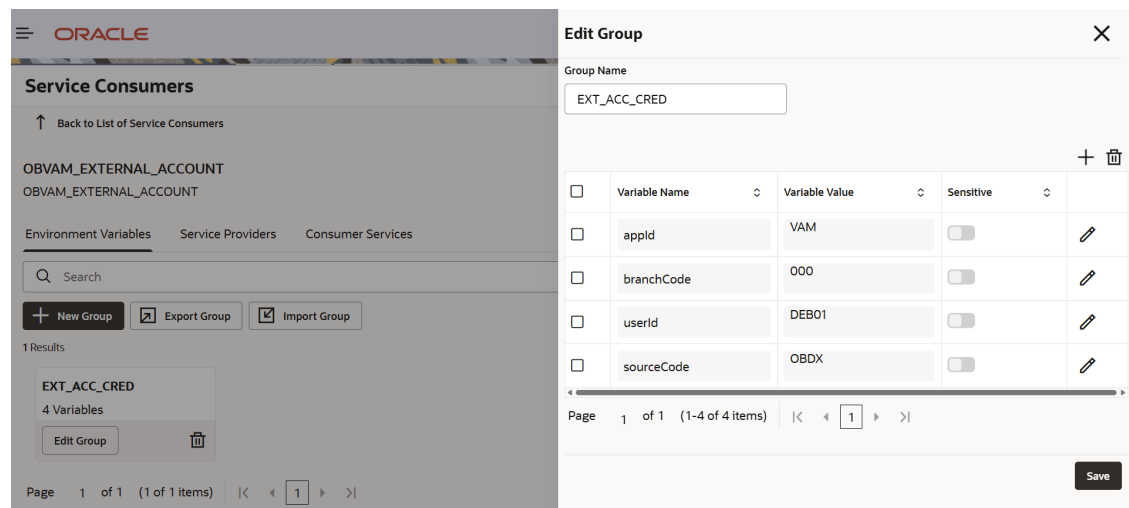
- Host - Ext_Acc_Provider
- Version - 14.4
- API - /api-gateway/cmc-obrh-services/route/dispatch
- Headers –
 - SERVICE-CONSUMER - OBVAM_EXTERNAL_ACCOUNT
 - SERVICE-CONSUMER-SERVICE - ext_acc
 - REQUIRED_ACTION - VA / IBAN / VA_IBAN

Note

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

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code.

Figure 1-5 Environmental Variable - EXTERNAL ACCOUNT



Refer the [Environment Variable Configuration](#) topic to set the values in **Edit Service Consumer** screen.

The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

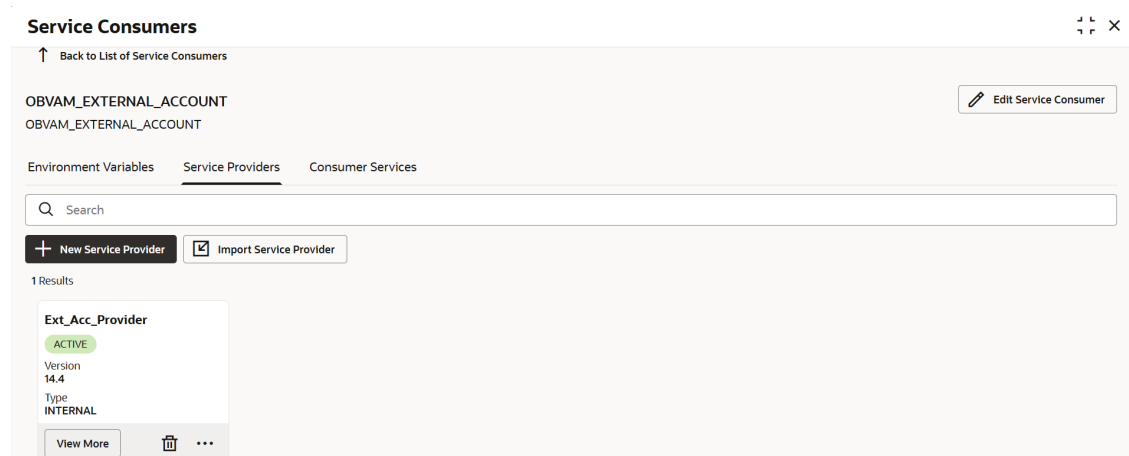
- [Service Providers - EXTERNAL ACCOUNT](#)
This topic describes about the service providers configuration for EXTERNAL ACCOUNT.
- [Consumer Services - EXTERNAL ACCOUNT](#)
This topic describes about the consumer services required for EXTERNAL ACCOUNT Implementation.

1.2.2.1 Service Providers - EXTERNAL ACCOUNT

This topic describes about the service providers configuration for EXTERNAL ACCOUNT.

To configure the external system in Oracle Banking Routing Hub, import WSDL / Swagger provided by the external system.

Figure 1-6 Service Providers - EXTERNAL ACCOUNT



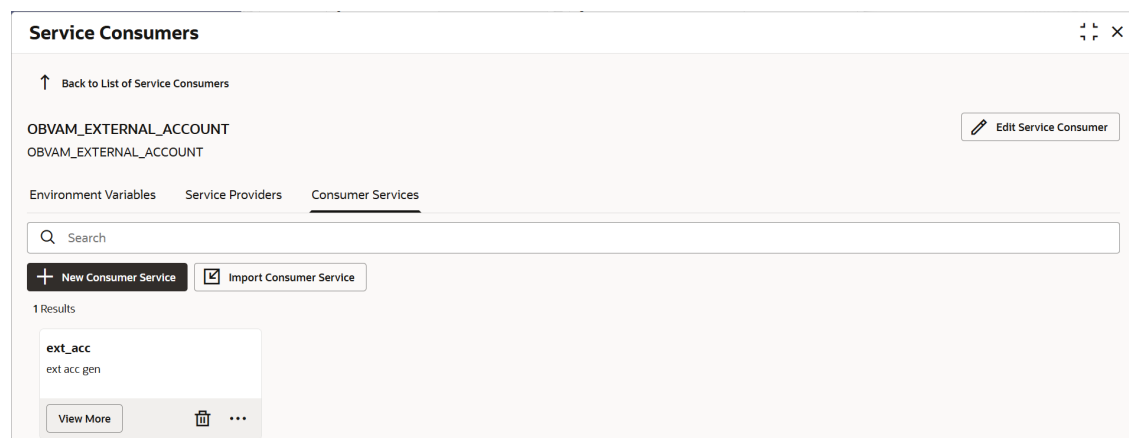
1.2.2.2 Consumer Services - EXTERNAL ACCOUNT

This topic describes about the consumer services required for EXTERNAL ACCOUNT Implementation.

The below endpoint must be configured under Consumer Services in Oracle Banking Routing Hub:

1. Generate the account number externally (ext_acc)

Figure 1-7 Consumer Services - EXTERNAL ACCOUNT



ext_acc

This API enables the user to generate the account number externally.

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": ""
}
```

1.2.3 Oracle Banking Payments Implementation

This topic provides the API information for Oracle Banking Payments Implementation.

The following APIs is configured for Oracle Banking Payments Implementation using Oracle Banking Routing Hub:

1. PendingPaymentQuery

SERVICE-CONSUMER - OBVAM_OBPM

- API - /api-gateway/cmc-obrh-services/route/dispatch
- Host - OBPM
- Version - 14.4

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code.

Figure 1-8 Edit Service Consumer - Oracle Banking Payments

Variable Name	Variable Value	Sensitive
functionId	PMDPENDP	<input type="checkbox"/>
action	EXECUTEQUERY	<input type="checkbox"/>
channel	REST	<input type="checkbox"/>
source	MANL	<input type="checkbox"/>

Refer the [Environment Variable Configuration](#) topic to set the values in **Edit Service Consumer** screen.

The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

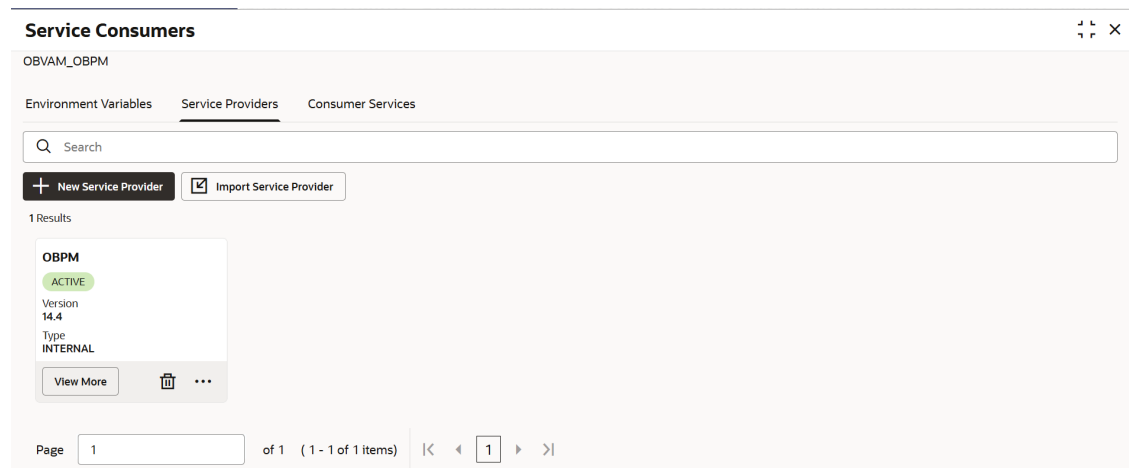
- [Service Providers - Oracle Banking Payments](#)
This topic describes about the service providers configuration for Oracle Banking Payments.
- [Consumer Services - Oracle Banking Payments](#)
This topic describes about the consumer services required for Oracle Banking Payments Implementation.

1.2.3.1 Service Providers - Oracle Banking Payments

This topic describes about the service providers configuration for Oracle Banking Payments.

To configure Oracle Banking Payments in Oracle Banking Routing Hub, import WSDL / Swagger provided by Oracle Banking Payments.

Figure 1-9 Service Providers - Oracle Banking Payments



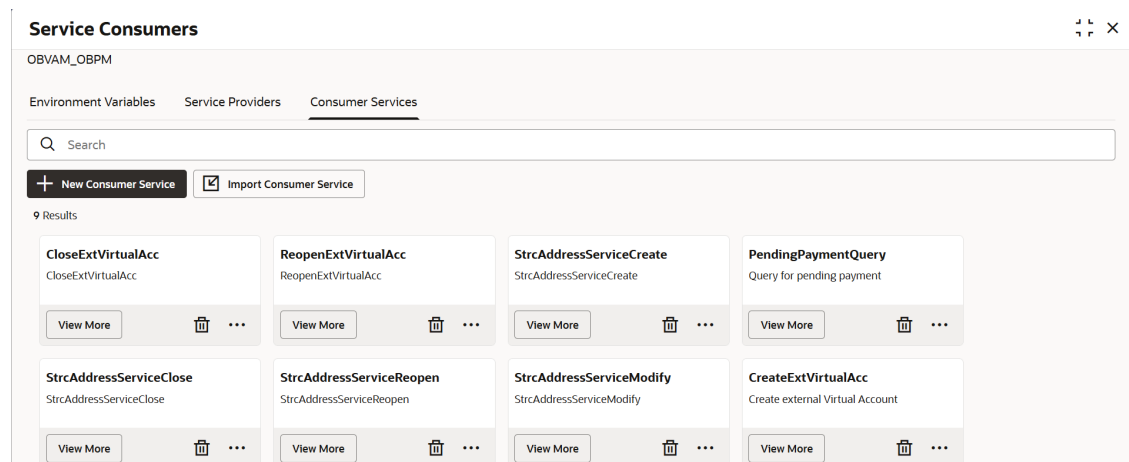
1.2.3.2 Consumer Services - Oracle Banking Payments

This topic describes about the consumer services required for Oracle Banking Payments Implementation.

The below endpoints must be configured under Consumer Services in Oracle Banking Routing Hub:

1. Query for pending payment (PendingPaymentQuery)

Figure 1-10 Consumer Services - Oracle Banking Payments



PendingPaymentQuery

This API enables the user to query Oracle Banking Payments system for pending payments during account closure.

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "PendingPaymentQuery"

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": ""
    }
  ]
}
```

1.2.4 Interest and Charges Implementation

This topic provides the API information for Interest and Charges Implementation.

The following APIs are configured for DDA Implementation using Oracle Banking Routing Hub:

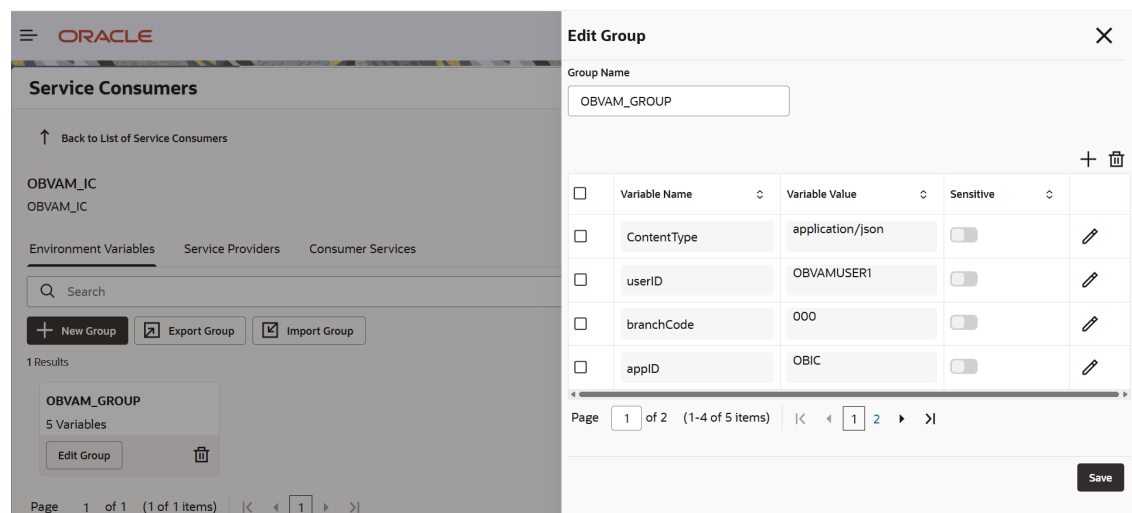
1. **fetchgcScicRate**
2. **closeIEAccount**
3. **CREATE_EXT_IC_GRP_PRD**
4. **fetchAccuredInt**
5. **CREATE_EXT_IC_GRP**
6. **liquidateInterest**
7. **fetchExtICGrps**
8. **fetchPrdMapForGrp**

9. CREATE_IC_ACCOUNT**10. vdbalMaster**

SERVICE-CONSUMER - OBVAM_IC

- Host - OBVAM
- Version - 14.4

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code.

Figure 1-11 Environmental variable - Interest and Charges

Refer the [Environment Variable Configuration](#) topic to set the values in **Edit Service Consumer** screen.

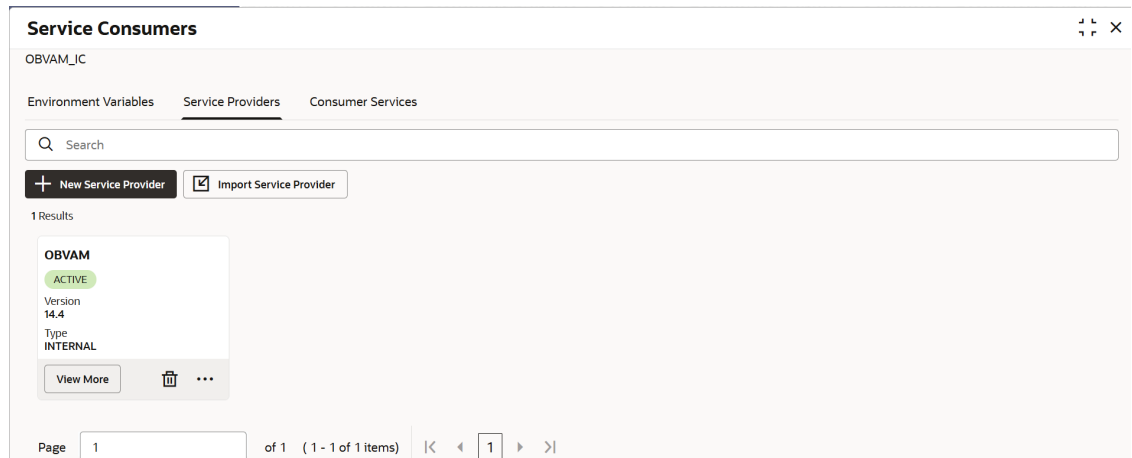
The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

- [Service Providers - Interest and Charges](#)
This topic describes about the service providers configuration for Interest and Charges.
- [Consumer Services - Interest and Charges](#)
This topic describes about the consumer services required for Interest and Charges Implementation.

1.2.4.1 Service Providers - Interest and Charges

This topic describes about the service providers configuration for Interest and Charges.

To configure the Interest and Charges services in Oracle Banking Routing Hub, import WSDL / Swagger provided by Interest and charges services.

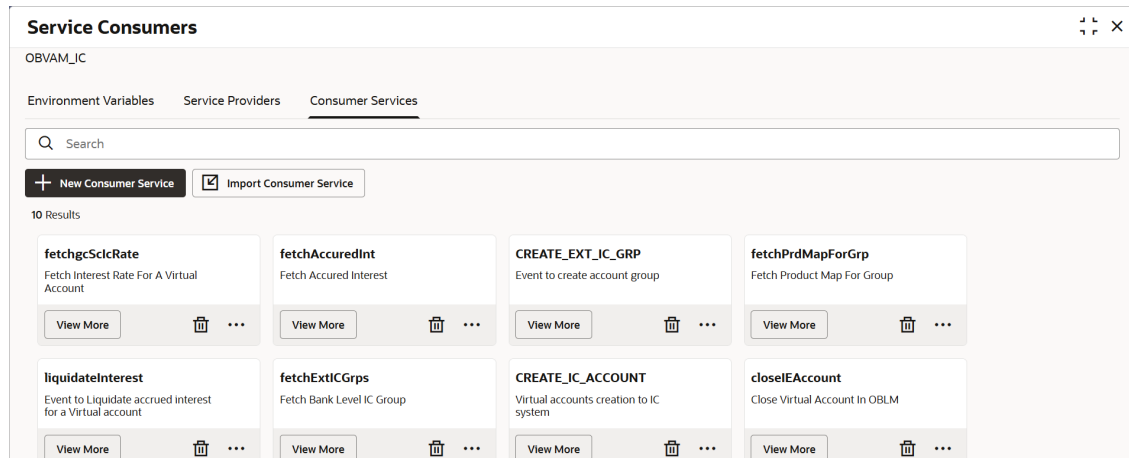
Figure 1-12 Service Providers - Interest and Charges

1.2.4.2 Consumer Services - Interest and Charges

This topic describes about the consumer services required for Interest and Charges Implementation.

The below endpoints must be configured under Consumer Services in Oracle Banking Routing Hub:

1. Fetch Interest Rate for A Virtual Account (fetchgcScIcRate)
2. Close Virtual Account (closeIEAccount)
3. Event for account group product mapping (CREATE_EXT_IC_GRP_PRD)
4. Fetch Accrued Interest (fetchAccuredInt)
5. Event to create account group (CREATE_EXT_IC_GRP)
6. Event to Liquidate accrued interest for a Virtual account (liquidateInterest)
7. Fetch Bank Level IC Group (fetchExtICGrps)
8. Fetch Product Map For Group (fetchPrdMapForGrp)
9. Virtual accounts creation to IC system (CREATE_IC_ACCOUNT)
10. Event to trigger Value dated balance fetch (vdbalMaster)

Figure 1-13 Consumer Services - Interest and Charges**fetchgcScIcRate**

This API enables the user to fetch the interest rates for a Virtual Account.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "fetchgcScIcRate"

Request:

```
{
  "branch": "string",
  "account": "string",
  "extAccGrp": "string",
  "accGrp": "string",
  "dateFrom": "string",
  "dateTo": "string",
  "ccy": "string",
  "dateType": "string",
}
```

Response:

```
{
  "data":
  [
    {
      "aclass": "string",
      "productCode": "string",
      "ccyCode": "string",
      "udeEffDt": "string",
      "branchCode": "string",
      "RateCategory": "string",
      "productdesc": "string",
      "GenUdeValList":
      [
        {

```



```

        "udeId": "string",
        "udeDesc": "string",
        "udeType": "string",
        "udeValue": 0,
        "rateCode": "string",
        "tdRateCode": "string"
      }
    ]
  },
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors":
  [
    {
      "errorCode": "string",
      "errorDesc": "string"
    }
  ]
}

```

closeIEAccount

This API enables the user to close a Virtual Account.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "closeIEAccount"

Request:

```

{
  "source": "string",
  "branch": "string",
  "acc": "string",
  "currency": "string"
}

```

Response:

```

{
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors":
  [

```

```

    {
      "errorCode": "string",
      "errorDesc": "string"
    }
  ]
}

```

CREATE_EXT_IC_GRP_PRD

This API enables the user to generate an event for account group product mapping.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "CREATE_EXT_IC_GRP_PRD"

Request:

```

{
  "accGrp": "string",
  "accGrpDesc": "string",
  "accProdList":
  [
    {
      "productCode": "string",
      "productDescription": "string",
      "ccy": "string",
      "open": "string"
    }
  ]
}

```

Response:

```

{
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors":
  [
    {
      "errorCode": "string",
      "errorDesc": "string"
    }
  ]
}

```

fetchAccuredInt

This API enables the user to fetch the accrued Interest.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "fetchAccuredInt"

Request:

```
{
  "brn": string,
  "acc": string,
  "source": string
}
```

Response:

```
{
  "data":
  {
    "brn": "string",
    "acc": "string",
    "source": "string",
    "totalAccrDr": 0,
    "totalAccrCr": 0,
    "accruedAmtList":
    [
      {
        "acc": "string",
        "brn": "string",
        "prod": "string",
        "frmNo": 0,
        "accruedAmt": 0,
        "drcr": "string"
      }
    ]
  },
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors":
  [
    {
      "errorCode": "string",
      "errorDesc": "string"
    }
  ]
}
```

CREATE_EXT_IC_GRP

This API enables the user to generate an event to create an account group.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "CREATE_EXT_IC_GRP"

Request:

```
{
  "accGrp": "string"
  "accGrpDesc": "string"
  "extAccGrp": "string"
  "extAccGrpDesc": "string"
  "extAccGrpType": "string"
}
```

Response:

```
{
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors":
  [
    {
      "errorCode": "string",
      "errorDesc": "string"
    }
  ]
}
```

liquidateInterest

This API enables the user to generate an event to liquidate accrued interest for a Virtual account.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "liquidateInterest"

Request:

```
{
  "onliq":
  [
    {
      "branchCode": "string",
      "accountNumber": "string",
      "productCode": "string",
      "liquidationDate": "string"
    }
  ]
}
```

Response:

```
{
  "onliq":
  [
    {
      "msgStat": "string",
      "onliq": {},
      "warnings":
      [
        {
          "warningCode": "string",
          "warningDesc": "string"
        }
      ],
      "errors":
      [
        {
          "errorCode": "string",
          "errorDesc": "string"
        }
      ]
    }
  ]
}
```

fetchExtICGrps

This API enables the user to fetch a Bank-Level IC Group.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "fetchExtICGrps"

Request:

```
{
  "accGrp": "string",
  "extAccGrpType": "string"
}
```

Response:

```
{
  "data":
  {
    "AccGrpList":
    [
      {
        "accGrp": "string",
        "accGrpDesc": "string",
        "extAccGrpType": "string"
      }
    ]
  }
}
```

```
    },
    "errors":
    [
      {
        "errorCode": "string",
        "errorDesc": "string"
      }
    ]
  }
}
```

fetchPrdMapForGrp

This API enables the user to fetch a Product Map for Group.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "fetchPrdMapForGrp"

Request:

```
{
  "accGrp": "string",
  "productCode": "string",
  "ccy": "string"
}
```

Response:

```
{
  "data":
  {
    "IcGrpPrdList":
    [
      {
        "accGrp": "string",
        "accGrpDesc": "string",
        "accProdList":
        [
          {
            "productCode": "string",
            "productDescription": "string",
            "ccy": "string",
            "open": "string"
          }
        ]
      }
    ]
  },
  "errors":
  [
    {
      "errorCode": "string",
      "errorDesc": "string"
    }
  ]
}
```

```
]
}
```

CREATE_IC_ACCOUNT

This API enables the user to create a Virtual account for the IC system.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "CREATE_IC_ACCOUNT"

Request:

```
{
  "accMasterList":
  [
    {
      "acc": "string",
      "childAcc": "string",
      "accountClass": "string",
      "accType": "string",
      "acOpenDate": "string",
      "bookAcc": "string",
      "bookBrn": "string",
      "bookCcy": "string",
      "brn": "string",
      "calcAcc": "string",
      "ccy": "string",
      "custNo": "string",
      "consolChgAcc": "string",
      "intStartDate": "string",
      "sourceSystem": "string",
      "sourceSystemBrn": "string",
      "sourceSystemAcc": "string",
      "chargeBookAcc": "string",
      "chargeBookBrn": "string",
      "chargeBookCcy": "string",
      "chgStartDate": "string"
    }
  ]
}
```

Response:

```
{
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors":
  [
    {
```

```

        "errorCode": "string",
        "errorDesc": "string"
    }
]
}

```

vdbalMaster

This API enables the user to fetch a Virtual account balance.

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "vdbalMaster"

Request:

```

{
  "type" : "string",
  "extRefNo" : "string",
  "sourceCode" : "string",
  "vdBalList": [
    {
      "acc" : "string",
      "brn": "string",
      "ccy": "string",
      "valDt": "string"
    }
  ]
}

```

Response:

```

{
  "warnings":
  [
    {
      "warningCode": "string",
      "warningDesc": "string"
    }
  ],
  "errors": null
}

```

1.2.5 Oracle Banking Liquidity Management Implementation

This topic provides the API information for Oracle Banking Liquidity Management Implementation.

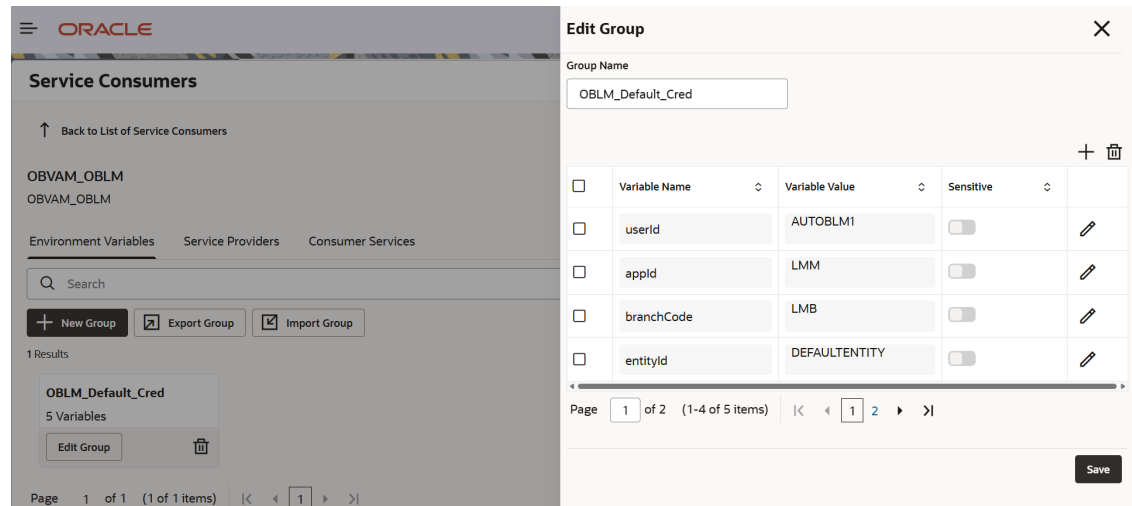
The following API is configured for Oracle Banking Liquidity Management Implementation using Oracle Banking Routing Hub:

1. **getLMAccount**
SERVICE-CONSUMER - OBVAM_OBLM
 - Host - OBVAM

- Version - 14.4

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code.

Figure 1-14 Environment Variable- Oracle Banking Liquidity Management



Refer the [Environment Variable Configuration](#) topic to set the values in **Edit Service Consumer** screen.

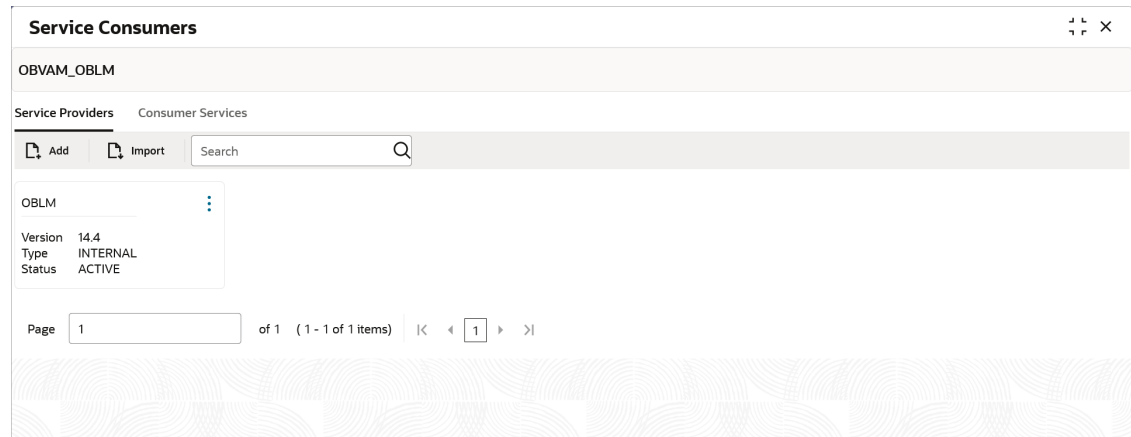
The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

- [Service Providers - Oracle Banking Liquidity Management](#)
This topic describes about the service providers configuration for Oracle Banking Liquidity Management.
- [Consumer Services - Oracle Banking Liquidity Management](#)
This topic describes about the consumer services required for Oracle Banking Liquidity Management Implementation.

1.2.5.1 Service Providers - Oracle Banking Liquidity Management

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

To configure the Oracle Banking Liquidity Management in Oracle Banking Routing Hub, import WSDL / Swagger provided by Oracle Banking Liquidity Management.

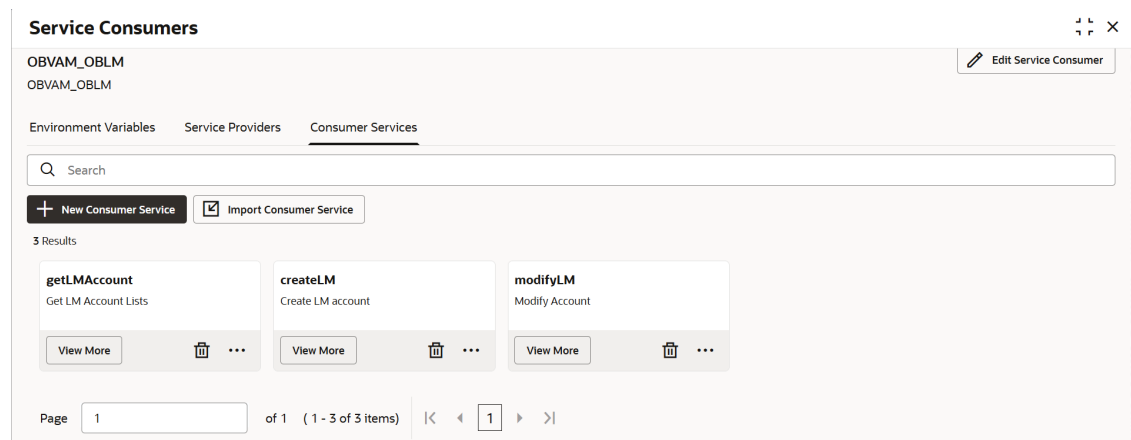
Figure 1-15 Service Providers - Oracle Banking Liquidity Management

1.2.5.2 Consumer Services - Oracle Banking Liquidity Management

This topic describes about the consumer services required for Oracle Banking Liquidity Management Implementation.

The below endpoint must be configured under Consumer Services in Oracle Banking Routing Hub:

1. Get the Liquidity Management account lists (getLMAccount)

Figure 1-16 Consumer Services - Oracle Banking Liquidity Management

getLMAccount

This API enables the user to get the Liquidity Management account lists.

Request:

```
{
  "includeAllAccount": "",
  "authStat": "",
  "multiCcyAccountNumber": "",
  "isProspect": "",
}
```

```

    "acyAvailableBal": "",
    "offset": "",
    "isExternal": "",
    "includecloseandunauth": "",
    "recordStat": "O",
    "accountNumber": "1000242",
    "isActive": "",
    "sourceSystemAccNo": "",
    "branchCode": "",
    "isNotional": "",
    "limit": "",
    "customerId": "",
    "currency": "",
    "isResident": ""
  }

```

Response:

```

{
  "body": {
    "data": {
      "data": [
        {
          "keyId": "1a939627-4629-4b30-bd10-ebdc01d7ba27",
          "makerId": "OBDX02",
          "makerDateStamp": "2018-11-30T13:05:31.000+00:00",
          "checkerId": "OBDX02",
          "checkerDateStamp": "2018-11-30T13:05:31.000+00:00",
          "modNo": 1,
          "recordStatus": "O",
          "authStatus": "A",
          "onceAuth": "Y",
          "doerRemarks": null,
          "approverRemarks": null,
          "sourceSystem": "OBDX",
          "sourceSystemAccNo": null,
          "iban": null,
          "updatedIban": null,
          "logCode": "fb79f58f-8206-465d-9bdd-72fb8cccd31b",
          "accountNumber": "OBDX_SYSACC_8665",
          "accountDescription": "OBDX_SYSACC_8665 Notional Account",
          "branchCode": "HEL",
          "bankCode": "0020",
          "cityId": "Sydney",
          "countryId": "AUS",
          "currency": "GBP",
          "customerId": "000464",
          "customerName": "XXX XXXXXX",
          "accCreatedDate": null,
          "accOpenDate": "2020-03-26",
          "accClosedDate": null,
          "acyAvailableBal": null,
          "acyCurrentBal": null,
          "lastBalUpdateTime": null,
          "isActive": "A",

```

```

        "isExternal": "External",
        "isResident": "R",
        "isNotional": "Y",
        "acyCasaBlockedAmt": null,
        "accCategory": "S",
        "drLimit": null,
        "crLimit": null,
        "ilRouteCode": null,
        "lineId": null,
        "limitCcy": null,
        "region": "Asia/Kolkata",
        "uncollFundsLimit": null,
        "uncollAvailable": null,
        "balCompParticipation": null,
        "odLimit": null,
        "isDebitUnlimited": "N",
        "groupCode": null,
        "groupDescription": null,
        "isNoCredit": null,
        "isNoDebit": null,
        "isFrozen": null,
        "isBlocked": null,
        "countryCode": null,
        "address4": null,
        "address3": null,
        "address2": null,
        "address1": null,
        "isDormant": null,
        "isProspect": "N",
        "isVirtual": null,
        "isICRequired": null,
        "isMultiCurrencyAccount": null,
        "multiCcyAccountNumber": null,
        "noBalanceHandling": "Last Balance",
        "isBalanceOnline": "Y",
        "branchDate": "2020-03-30",
        "isRegulatedDebits": "N",
        "entityID": "HEL_ENTITY",
        "entityName": "HEL_ENTITY_NAME",
        "bankName": "Futura Bank",
        "branchName": "HEL FC UNIVERSAL BANK",
        "countryName": "Australia",
        "simAccount": null,
        "LmmTmMultiCcyAccountDTO": null
    },
    ],
    "paging": {
        "totalResults": 1,
        "links": {
            "next": null,
            "prev": null
        }
    }
},
"messages": {
    "keyId": null,

```

```

        "status": "SUCCESS",
        "codes": [],
        "requestId": null,
        "httpStatusCode": "OK",
        "overrideAuthLevelsReqd": null
    }
}
}

```

1.2.6 Oracle Banking Host to Host Implementation

This topic provides the API information for Oracle Banking Host to Host Implementation.

The following callback API is configured for Oracle Banking Electronic Data Exchange Implementation using Oracle Banking Routing Hub.

1. **parseResponse**
2. **handoffResponse**
3. **outgoingFileCallbackResponse**

SERVICE-CONSUMER - OBVAM_OBEDX

- Host - OBVAM
- Version - 14.6

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code.

Figure 1-17 Environment variables - Oracle Banking Electronic Data Exchange

The screenshot shows the 'Edit Group' interface for the 'OBEDX_144_GROUP'. The 'Group Name' is 'OBEDX_144_GROUP'. Below this, there is a table of environment variables:

<input type="checkbox"/>	Variable Name	Variable Value	Sensitive	
<input type="checkbox"/>	userID	EDXWORKFLOW	<input type="checkbox"/>	
<input type="checkbox"/>	applID	OBEDX	<input type="checkbox"/>	
<input type="checkbox"/>	branchCode	006	<input type="checkbox"/>	
<input type="checkbox"/>	entityID	DEFAULTENTITY	<input type="checkbox"/>	

At the bottom, there is a 'Save' button and pagination information: 'Page 1 of 2 (1-4 of 7 items)'.

Refer the [Environment Variable Configuration](#) topic to set the values in **Edit Service Consumer** screen.

The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

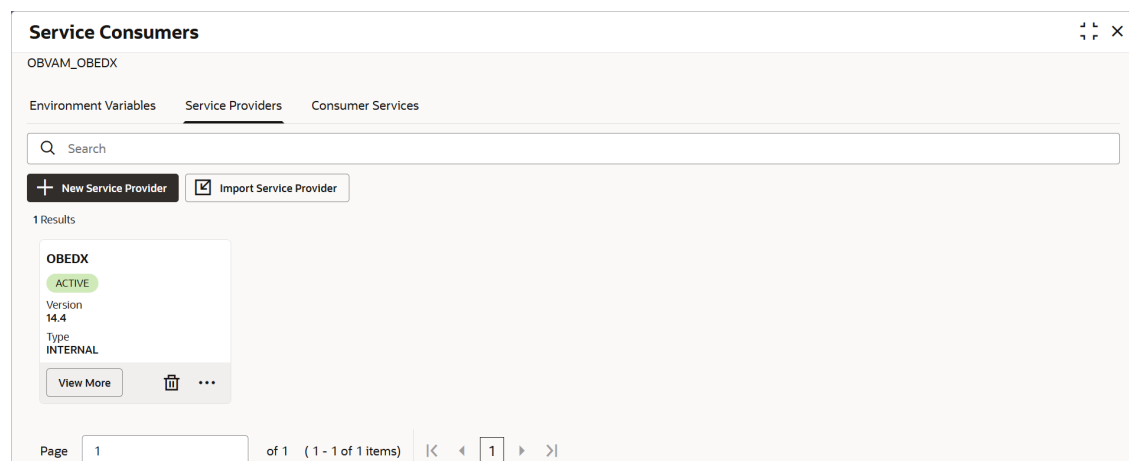
- [Service Providers - Oracle Banking Electronic Data Exchange](#)
This topic describes about the service providers configuration for Oracle Banking Electronic Data Exchange Implementation.
- [Consumer Services - Oracle Banking Electronic Data Exchange](#)
This topic describes about the consumer services required for Oracle Banking Electronic Data Exchange Implementation.

1.2.6.1 Service Providers - Oracle Banking Electronic Data Exchange

This topic describes about the service providers configuration for Oracle Banking Electronic Data Exchange Implementation.

To configure the Oracle Banking Electronic Data Exchange in Oracle Banking Routing Hub, import WSDL / Swagger provided by Oracle Banking Electronic Data Exchange.

Figure 1-18 Service Providers - Oracle Banking Electronic Data Exchange



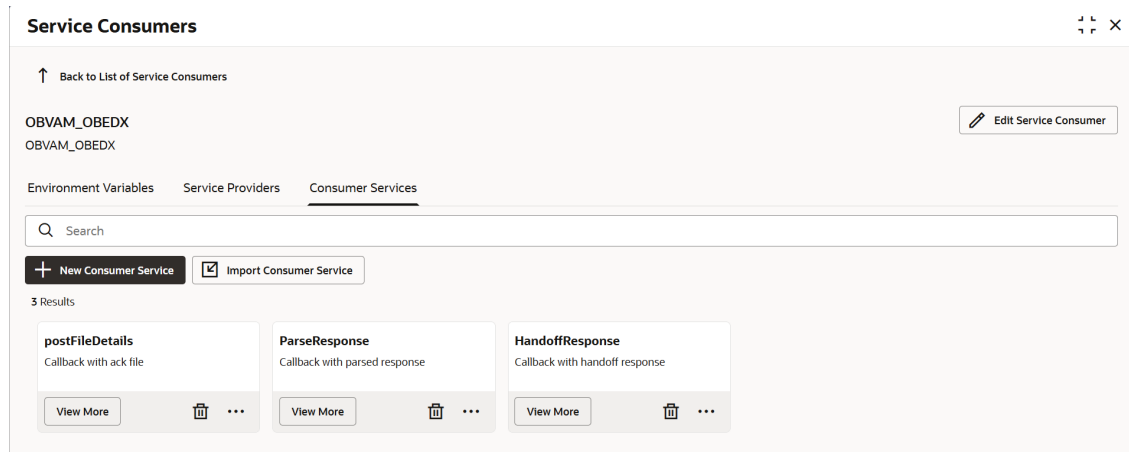
In Request Transformation, template needs to be added for ParseResponse consumer service.

```
{
  "external-parser-output":
  {
    "output-file":$custom.toJson($body)
  }
}
```

1.2.6.2 Consumer Services - Oracle Banking Electronic Data Exchange

This topic describes about the consumer services required for Oracle Banking Electronic Data Exchange Implementation.

The following callback API is configured for Oracle Banking Electronic Data Exchange Implementation using Oracle Banking Routing Hub

Figure 1-19 Consumer Services - OBVAM_OBEDX

HandoffResponse

Request:

```
{
  "fileRefId": 110634,
  "internalRefId": null,
  "workflowInstanceId": "",
  "fileStatus": "",
  "cacheVersion": 0,
  "fileOriginalName": "",
  "fileModifiedName": "",
  "fileSize": 692,
  "formatName": null,
  "createdBy": null,
  "createdDate": 1651721400000,
  "modifiedBy": null,
  "modifiedDate": 1651721405000,
  "transactionId": "",
  "transactionName": null,
  "transactionModNo": 1,
  "formatId": "",
  "formatModNo": 1,
  "channelId": "",
  "channelModNo": 1,
  "corporateId": "",
  "corporateModNo": 1,
  "corporateRef": null,
  "totalRecords": 2,
  "successRecords": 0,
  "failedRecords": 0,
  "totalAmount": null,
  "totalAmountCurrency": null,
  "messageId": null,
  "initiatingPartyName": null,
  "initiatingPartyId": "",
  "initiatingPartyCD": null,
  "initiatingPartyAddress": {},
}
```

```

"groupStatus": null,
"groupStatusReasonCode": null,
"noOfHandoff": null,
"handoffId": null,
"corelationLevel": null,
"recordPersist": false,
"chunkSize": 2,
"chunkIndex": 1,
"totalChunks": 1,
"retryCount": 0,
"retryForChunk": [],
"fieldData": {
    "handoffId": null,
    "initiatingPartyName": null
},
"recordList": [{
    "recordId": 971614727779409900,
    "fileRefId": 110634,
    "modifiedBy": "",
    "modifiedDate": 1523052010000,
    "txnStatus": "",
    "statusCodes": "",
    "transactionId": "",
    "transactionModNo": 1,
    "createdDate": null,
    "createdBy": null,
    "fxRate": null,
    "convertedCurrency": null,
    "convertedAmount": null,
    "fieldData": {
        "odStartDate": "",
        "virtualAccountName": "",
        "debitTxnsAllowed": "",
        "fixedAmtFromPool": null,
        "odEndDate": "",
        "transferInVirAccNo": null,
        "accountPurpose": "",
        "action": "new",
        "addressLine1": "",
        "buildingNumber": "",
        "addressLine2": "",
        "addressLine3": "",
        "addressLine4": "",
        "pincode": "",
        "townName": "",
        "overdraftSanctionAmount": null,
        "defaultAccCcy": "",
        "postBox": "",
        "virtualParentAcc": null,
        "realCustomerNo": "",
        "branchCode": "",
        "virtualEntityId": "",
        "transferOutVirAccNo": null,
        "buildingName": "",
        "structureCode": null,
        "postCode": ""
    }
}]

```



```

        "virtualAccountNo": null,
        "interestCalcReq": "N",
        "realAccountBrn": null,
        "ibanAccNo": null,
        "countrySubDivision": "",
        "realAccountCcy": null,
        "accountFrozen": "N",
        "subDepartment": "",
        "realAccountNo": null,
        "streetName": "",
        "ibanRequired": "",
        "countryCode": "",
        "balChkForDebits": "",
        "department": "",
        "floor": "",
        "virtualAccProduct": "",
        "townLocationName": "",
        "districtName": "",
        "overdraftAllowed": "",
        "creditTxnsAllowed": "",
        "strrCountry": "",
        "room": "",
        "realAccLinkage": "",
        "remarks": "",
        "balAvailabilityOptions": ""
    },
    "exceptionList": [{
        "exceptionCode": "",
        "exceptionArgs": "",
        "lineNo": 1,
        "CreatedDate": null
    }]
}],
"exceptionList": []
}

```

Response:

```

{
  "body": {
    "messages": {
      "status": "SUCCESS",
      "codes": [{
        "information": true,
        "override": false,
        "error": false,
        "overrideAuthLevelsReqd": 0,
        "desc": "Record Created successfully",
        "code": "EDX-HCB-000",
        "language": "ENG",
        "type": "I"
      }],
      "httpStatusCode": "OK"
    },
    "data": {

```

```

        "links": []
      }
    }
  }
}

```

ParseResponse

Request:

```

{
  "fileRefId": 110635,
  "internalRefId": null,
  "workflowInstanceId": "",
  "fileStatus": "",
  "cacheVersion": 0,
  "fileOriginalName": "",
  "fileModifiedName": "",
  "fileSize": 692,
  "formatName": "CSV",
  "createdBy": null,
  "createdDate": 1651721490130,
  "modifiedBy": null,
  "modifiedDate": null,
  "transactionId": "",
  "transactionName": "Open Virtual Account",
  "transactionModNo": 1,
  "formatId": "",
  "formatModNo": 1,
  "channelId": "",
  "channelModNo": 1,
  "corporateId": "",
  "corporateModNo": 1,
  "corporateRef": null,
  "totalRecords": 2,
  "successRecords": 0,
  "failedRecords": 0,
  "totalAmount": null,
  "totalAmountCurrency": null,
  "messageId": null,
  "initiatingPartyName": null,
  "initiatingPartyId": "",
  "initiatingPartyCD": null,
  "initiatingPartyAddress": {},
  "groupStatus": null,
  "groupStatusReasonCode": null,
  "noOfHandoff": null,
  "handoffId": null,
  "corelationLevel": null,
  "recordPersist": false,
  "chunkSize": 2,
  "chunkIndex": 1,
  "totalChunks": 1,
  "retryCount": 0,
  "retryForChunk": [
    0
  ],
}

```

```

"fieldData": {
  "handoffId": null,
  "initiatingPartyName": null
},
"recordList": [{
  "recordId": 971615103983312900,
  "fileRefId": 110635,
  "modifiedBy": null,
  "modifiedDate": null,
  "txnStatus": "",
  "statusCodes": null,
  "transactionId": "",
  "transactionModNo": 1,
  "createdDate": null,
  "createdBy": "",
  "fxRate": null,
  "convertedCurrency": null,
  "convertedAmount": null,
  "fieldData": {
    "odStartDate": "",
    "accLiqdAllowed": "",
    "virtualAccountName": "",
    "debitTxnsAllowed": "Y",
    "fixedAmtFromPool": "",
    "odEndDate": "1990-01-01",
    "transferInVirAccNo": "",
    "accountPurpose": "",
    "action": "new",
    "addressLine1": "",
    "buildingNumber": "88",
    "addressLine2": "",
    "addressLine3": "",
    "addressLine4": "",
    "pincode": "",
    "townName": "",
    "defaultAccCcy": "",
    "postBox": "",
    "virtualParentAcc": "",
    "realCustomerNo": "",
    "branchCode": "",
    "virtualEntityId": "",
    "transferOutVirAccNo": "",
    "buildingName": "",
    "structureCode": "",
    "postCode": "",
    "virtualAccountNo": "",
    "interestCalcReq": "",
    "realAccountBrn": "",
    "ibanAccNo": "",
    "countrySubDivision": "",
    "realAccountCcy": "",
    "accountFrozen": "",
    "subDepartment": "",
    "realAccountNo": "",
    "streetName": "",
    "ibanRequired": "",

```

```

        "countryCode": "",
        "balChkForDebits": "",
        "fixedAmount": "",
        "department": "",
        "floor": "8",
        "virtualAccProduct": "",
        "townLocationName": "",
        "districtName": "",
        "overdraftAllowed": "",
        "creditTxnsAllowed": "",
        "strrCountry": "",
        "room": "",
        "realAccLinkage": "",
        "remarks": "",
        "balAvailabilityOptions": ""
    },
    "exceptionList": [{
        "exceptionCode": "",
        "exceptionArgs": "",
        "lineNo": 1,
        "CreatedDate": 1651721492536
    }]
  },
  "exceptionList": []
}

```

Response:

```

{
  "body": {
    "messages": {
      "status": "SUCCESS",
      "codes": [{
        "information": true,
        "override": false,
        "error": false,
        "overrideAuthLevelsReqd": 0,
        "desc": "Record Created successfully",
        "code": "EDX-PCB-000",
        "language": "ENG",
        "type": "I"
      }]
    },
    "httpStatusCode": "OK"
  },
  "data": {
    "links": []
  }
}

```

postFileDetails**Request:**

```
{
  "ackFileDTO":
  [
    {
      "index": 1,
      "type": "TEXT",
      "content":
      "{\\"fileRefId\\":16652,\\"ackfileRefId\\":16652,\\"ackfileName\\":\\"ACME_CSV_Open
      Virtual
      Account_20221010000004\\",\\"ackfileChannelName\\":\\"AutoCorpOutgoing\\",

      \\"ackResponseIdentifier\\":\\"RESPONSE_FILE\\",\\"ackfileStatus\\":\\"EDX-COF-000\\",

      \\"chunkSize\\":0,\\"chunkIndex\\":0,\\"totalChunks\\":0,\\"totalRecords\\":1,
      \\"recordList\\":
      [{\\"recordId\\":1033332842200104960,\\"lineNo\\":null,
      \\"status\\":\\"EDX-COR-000\\",\\"exceptionList\\":[]}]}"
    }
  ],
  "file":
  [
    {
      "fileName": "ACME_CSV_Open Virtual
      Account_20221010000004.csv",
      "file": "file_0",
      "index": 0,
      "type": "FILE"
    }
  ]
}
```

Response:

```
{
  "headers": {},
  "body": {
    "data": {
      "messages": {
        "status": "SUCCESS",
        "codes": [
          {
            "information": false,
            "override": false,
            "error": false,
            "code": "EDX-ADS-009"
          }
        ]
      }
    },
    "messages": {
      "keyId": null,
    }
  }
}
```

```

        "status": "SUCCESS",
        "codes": [],
        "requestId": null,
        "httpStatusCode": "OK",
        "overrideAuthLevelsReqd": null
    }
}
}

```

1.2.7 EXTERNAL IDENTIFIER Implementation

This topic provides the API information for EXTERNAL IDENTIFIER Implementation.

This API is used when the Identifier needs to be generated externally. Oracle Banking Virtual Account Management's Identifier generation will be suppressed and externally generated.

The following API is configured using Oracle Banking Routing Hub:

SERVICE-CONSUMER - OBVAM_EXTERNAL_IDENTIFIER

Environment variables are used to set values for the headers. Set environment specific values for variables like User ID, Branch code.

Figure 1-20 Environment variables- EXTERNAL IDENTIFIER

The screenshot shows the 'Edit Group' configuration in the Oracle Banking Routing Hub. The 'Group Name' is 'CORPORATE'. The 'Service Consumers' section shows 'OBVAM_EXTERNAL_IDENTIFIER'. The 'Environment Variables' tab is active, displaying a table of variables:

Variable Name	Variable Value	Sensitive
userid	ADMINUSER1	<input type="checkbox"/>
appld	CORP	<input type="checkbox"/>
ContentType	application/json	<input type="checkbox"/>
entityId	DEFAULTENTITY	<input type="checkbox"/>

The interface also includes buttons for 'New Group', 'Export Group', and 'Import Group', and a 'Save' button at the bottom right.

Refer the [Environment Variable Configuration](#) topic to set the values in **Edit Service Consumer** screen.

The following Service Providers and Consumer Services needs to be configured in Oracle Banking Routing Hub:

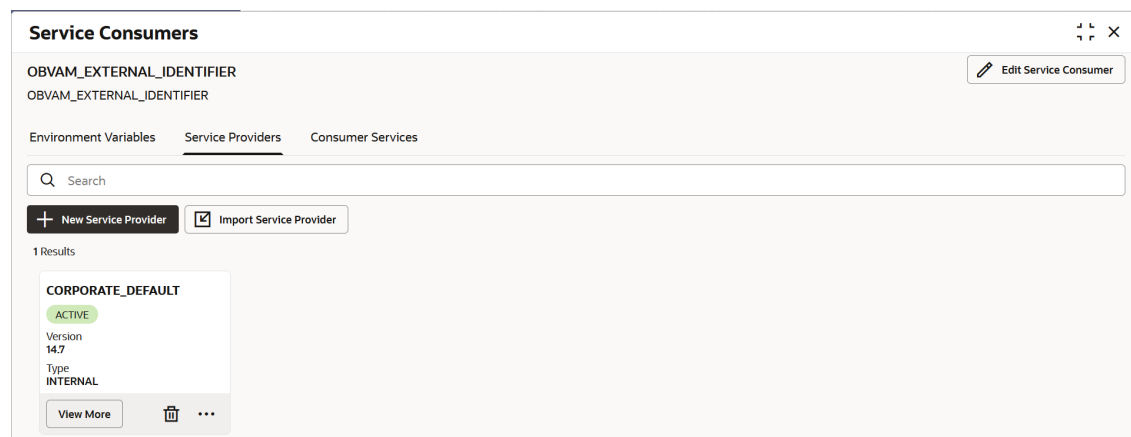
- [Service Providers - EXTERNAL IDENTIFIER](#)
This topic describes about the service providers configuration for EXTERNAL IDENTIFIER.
- [Consumer Services - EXTERNAL IDENTIFIER](#)
This topic describes about the consumer services required for EXTERNAL IDENTIFIER Implementation.

1.2.7.1 Service Providers - EXTERNAL IDENTIFIER

This topic describes about the service providers configuration for EXTERNAL IDENTIFIER.

To configure the external system in Oracle Banking Routing Hub, import WSDL / Swagger provided by the external system.

Figure 1-21 Service Providers - EXTERNAL IDENTIFIER

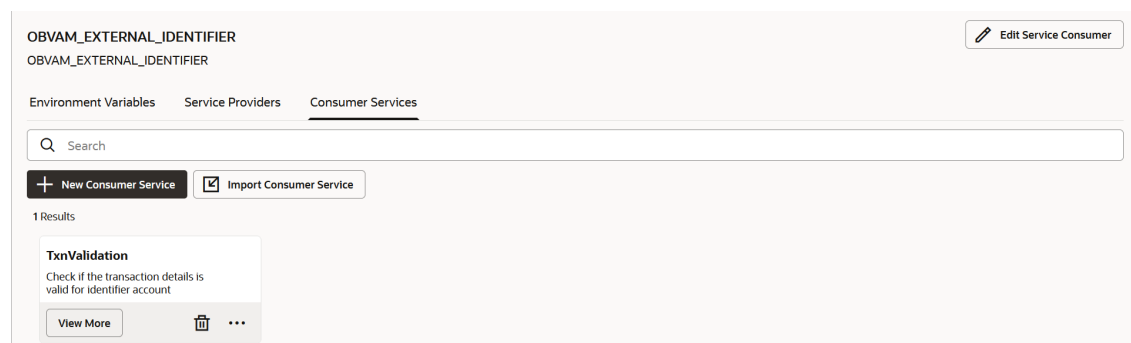


1.2.7.2 Consumer Services - EXTERNAL IDENTIFIER

This topic describes about the consumer services required for EXTERNAL IDENTIFIER Implementation.

The below endpoint must be configured under Consumer Services in Oracle Banking Routing Hub: "OBVAM_EXTERNAL_IDENTIFIER"

Figure 1-22 Consumer Services - EXTERNAL ACCOUNT



OBVAM_EXTERNAL_IDENTIFIER

This API enables the user to generate the Identifier externally.

Request:

```

{
  "headers": {
    "Accept": [
      "*/*"
    ],
    "appId": [
      "CMNCORE"
    ],
    "userId": [
      "USER78"
    ],
    "branchCode": [
      "B01"
    ],
    "Content-Type": [
      "application/json"
    ],
    "SERVICE-CONSUMER": [
      "OBVAM_EXTERNAL_IDENTIFIER"
    ],
    "SERVICE-CONSUMER-SERVICE": [
      "TxnValidation"
    ],
    "X-B3-TraceId": [
      "89b855e1dcec3a6b"
    ],
    "X-B3-SpanId": [
      "74bc9367771558df"
    ],
    "X-B3-ParentSpanId": [
      "bca22da650c156c6"
    ],
    "X-B3-Sampled": [
      "1"
    ],
    "piiEnabled": [
      "true"
    ],
    "languageCode": [
      "ENG"
    ],
    "sessionRef": [
      "_-
oIkcyao6kldKgMcXJR3kxjHrTvhrutKYNzP8FPq6jul5Fy_NRME2eD8rnDBeLRk6B4PJdfWYiddhB8
i02TIbw"
    ],
    "entityId": [
      "DEFAULTENTITY"
    ],
    "Content-Length": [
      "136"
    ],
    "Host": [
      "ofss-mum-1462.snbomprshared1.gbucdsint02bom.oraclevcn.com:8016"
    ]
  }
}

```



```

    ],
    "Connection": [
        "Keep-Alive"
    ],
    "User-Agent": [
        "Apache-HttpClient/4.5.14 (Java/11.0.16)"
    ],
    "Accept-Encoding": [
        "gzip, deflate"
    ]
},
"serviceConsumerServiceName": "TxnValidation",
"body": {
    "txnAccountBrn": "000",
    "virtualIdentifier": "101",
    "customerId": "TCUST01",
    "txnAccount": "101",
    "drCrInd": "D",
    "txnAmount": 101,
    "txnCcy": "GBP"
},
"serviceConsumerName": "OBVAM_EXTERNAL_IDENTIFIER"
}

```

Response:

```

{
    "headers": {},
    "body": {
        "data": {
            "status": "SUCCESS"
        },
        "messages": {
            "keyId": null,
            "status": "SUCCESS",
            "codes": [],
            "requestId": null,
            "httpStatusCode": "OK",
            "overrideAuthLevelsReqd": null
        }
    }
}

```

1.2.8 OBRH JSON 14.8.1.0.0

This topic provides the OBRH JSON details.

The full set of OBVAM OBRH JSON is listed here : [OBRH All.Zip](#)

The set of OBVAM OBRH that has changes in 14.8.1.0.0 release is listed here : [OBRH changes.Zip](#)

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