Oracle® Banking Virtual Account Management Cloud Service Oracle Banking Routing Hub Integration Guide





Oracle Banking Virtual Account Management Cloud Service Oracle Banking Routing Hub Integration Guide, Release 14.7.4.0.0

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Preface

- Purpose
- Audience
- Documentation Accessibility
- · Diversity and Inclusion
- Related Resources
- Conventions
- Screenshot Disclaimer
- Acronyms and Abbreviations

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.

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

Documentation Accessibility

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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.	
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.	
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.	

Screenshot Disclaimer

Personal information used in the interface or documents 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



1

Integration Guide

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

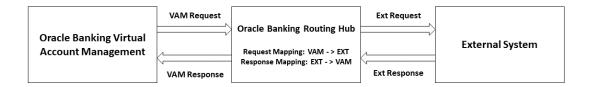
- Introduction
 This topic provides the overview about Oracle Banking Routing Hub.
- APIs configured using Oracle Banking Routing Hub
 This topic describes about the various APIs configured using Oracle Banking Routing Hub.

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.

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	Version
closeECA	FCUBS OBA	14.1 / 14.4 14.7
EAC	FCUBS OBA	14.1 / 14.4 14.7
createECA	FCUBS OBA	14.1 / 14.4 14.7
handofftoDDA	FCUBS OBA	14.1 / 14.4 14.7

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.

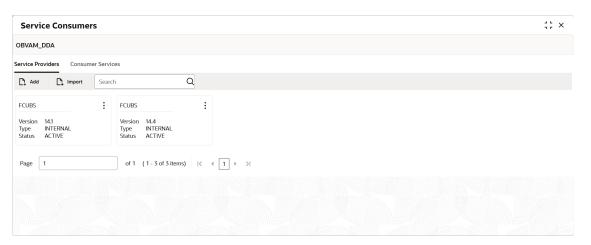
1.2.1.1 Service Providers - DDA

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

Multiple DDA providers are added to configure FCUBS 14.1 and FCUBS 14.4. They use SOAP APIs for request/response. Oracle Banking Virtual Account Management also supports the integration to Oracle Banking Accounts 14.7. They use REST APIs for request/response.



Figure 1-2 Service Providers - DDA



1.2.1.2 Environment Variable Configuration

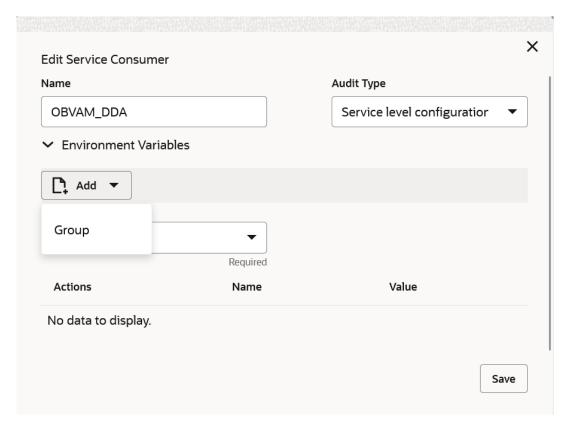
This topic describes the systematic instruction to configure the environment variables for DDA systems.

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

- On Service Consumer screen, click Action icon on the right corner of the OBVAM_DDA tile.
- 2. Click Edit button from the list.

The Edit Service Consumer screen displays.

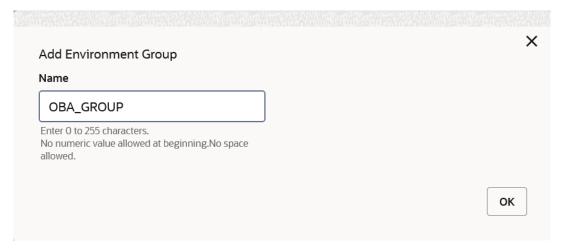
Figure 1-3 Edit Service Consumer



- 3. Under Environment Variables section, click Add button.
- Click Group from the dropdown list.

The Add Environment Group screen displays.

Figure 1-4 Add Environment Group



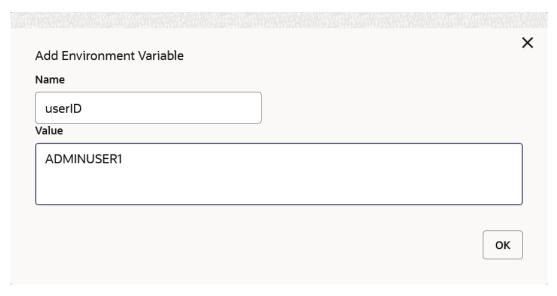
- On the Add Environment Group screen, create the environment group for Oracle Banking Accounts.
- 6. Click **OK** to add the environment group.
- 7. Under Environment Variables section, click Add button.



8. Click Variable from the dropdown list.

The Add Environment Variable screen displays.

Figure 1-5 Add Environment Variable



9. On the **Add Environment Variable** screen, specify the following parameters.

Table 1-2 Environment Variables - Parameters

Name	Value
userld	Header user ID
branchCode	header branch code
ContentType	application/json
handoff_Block_appld	CDDAPPTBSAPP
EAC_appid	CDDAPPACCNTAPP
entityID	header entity ID

10. Click **OK** button to add the environment variables.

The Edit Service Consumer - Review screen displays.

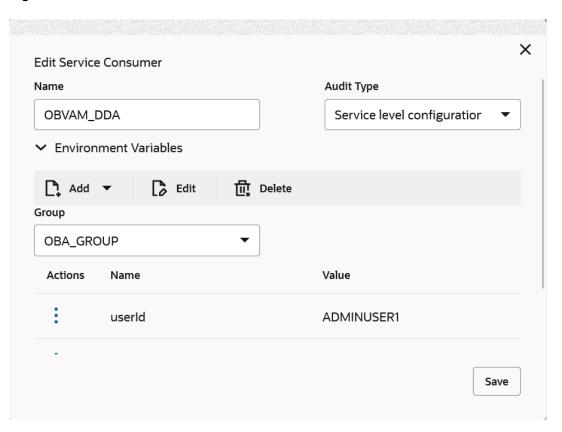


Figure 1-6 Edit Service Consumer - Review

 Once all the required environment variables are configured, click Save button to save the service consumer.

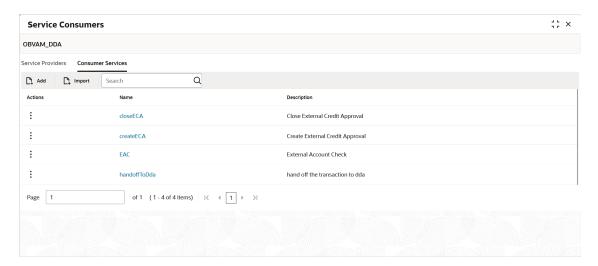
1.2.1.3 Consumer Services - DDA

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)
- 3. External account check (EAC)
- 4. Create a transaction (handofftoDDA)

Figure 1-7 Consumer Services - DDA



createECA

This API enables the user to create an amount block.

SERVICE-CONSUMER = "OBVAM_DDA"

SERVICE-CONSUMER-SERVICE="createECA"

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



Response:

closeECA

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

SERVICE-CONSUMER = "OBVAM DDA"

SERVICE-CONSUMER-SERVICE = "closeECA"

Request:

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"

```
"currentUserID": "",
"currentBranchCode": "",
"action": "",
"sourceReferenceNo": "",
"ddaSystem": "",
"externalReferenceNo": "",
"source": "",
"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,
    "exchrate": 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

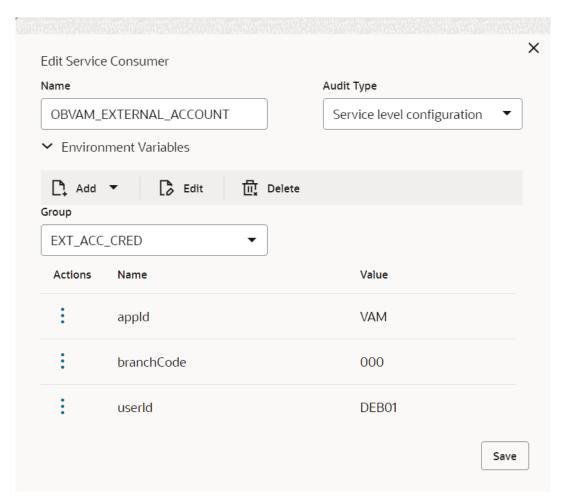
- Host Ext_Acc_Provider
- Version 14.4
- API /api-gateway/cmc-obrh-services/route/dispatch

- Headers
 - SERVICE-CONSUMER OBVAM_EXTERNAL_ACCOUNT
 - SERVICE-CONSUMER-SERVICE ext_acc
 - REQUIRED_ACTION VA / IBAN / VA_IBAN



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 - 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 1-9 Service Providers - EXTERNAL ACCOUNT

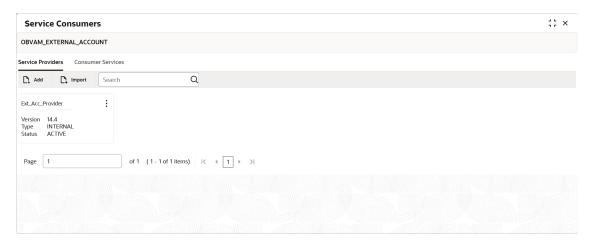
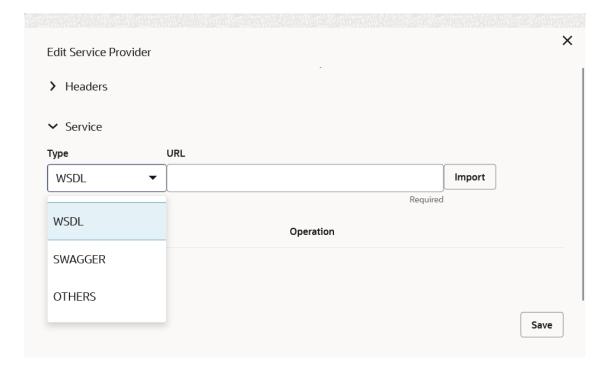


Figure 1-10 Service Providers - Edit Service Provider



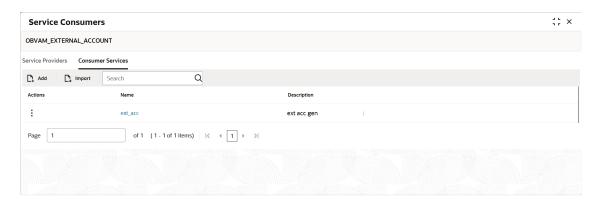
1.2.2.2 Consumer Services - EXTERNAL ACCOUNT

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:

Generate the account number externally (ext_acc)

Figure 1-11 Consumer Services - EXTERNAL ACCOUNT



ext_acc

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

```
"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
- **StrcAddressServiceCreate**
- StrcAddressServiceModify
- StrcAddressServiceClose
- StrcAddressServiceReopen
- CreateExtVirtualAcc
- ModifyExtVirtualAcc
- CloseExtVirtualAcc
- ReopenExtVirtualAcc

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.

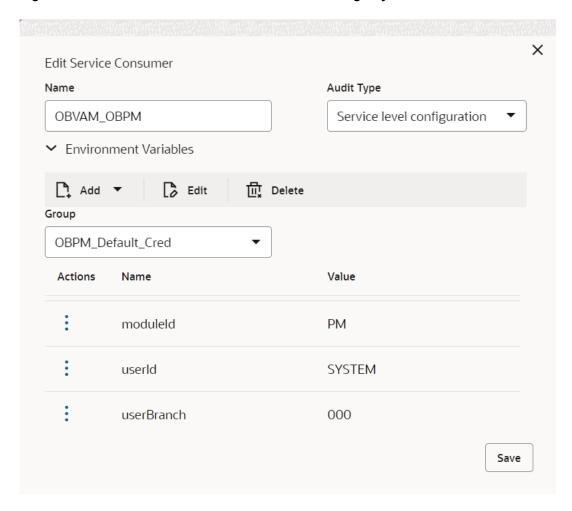


Figure 1-12 Edit Service Consumer - Oracle Banking Payments

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:

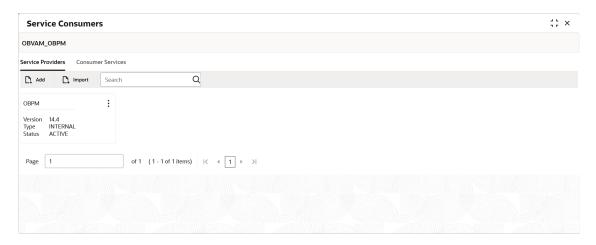
- Service Providers Oracle Banking Payments
 This topic describes about the service providers configuration for Oracle Banking Payments.
- Consumer Services Oracle Banking Payments
 This topic describes about the consumer services required for Oracle Banking Payments Implementation.

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 1-13 Service Providers - Oracle Banking Payments



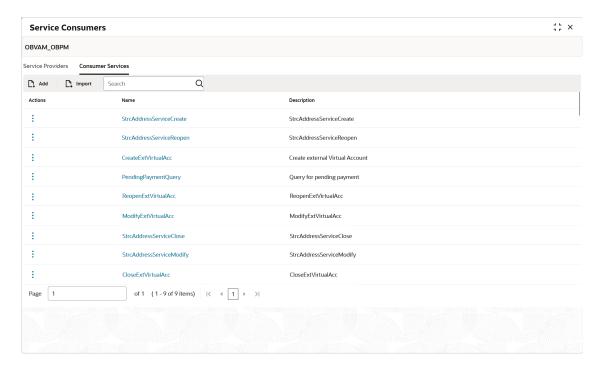
1.2.3.2 Consumer Services - Oracle Banking Payments

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:

- Query for pending payment (PendingPaymentQuery)
- Structure Address Create (StrcAddressServiceCreate)
- 3. Structure Address Modify (StrcAddressServiceModify)
- 4. Structure Address Close (StrcAddressServiceClose)
- 5. Structure Address Reopen (StrcAddressServiceReopen)
- Create External VA (CreateExtVirtualAcc)
- Modify External VA (ModifyExtVirtualAcc)
- 8. Close External VA (CloseExtVirtualAcc)
- Reopen External VA (ReopenExtVirtualAcc)

Figure 1-14 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"

```
{
  "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:

StrcAddressServiceCreate

This API enables the user to create structure address.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "StrcAddressServiceCreate"

Request

```
"department": "",
 "subDepartment": "",
  "streetName": "",
  "buildingNumber": "",
  "buildingName": "",
  "floor": "",
  "postbox": "",
  "room": "",
  "postcode": "",
  "townName": "",
  "townLocationName": "",
  "districtName": "",
  "countrySubDivision": "",
  "strrCountry": "",
  "virtualAccountNo": "",
  "branchId": ""
}
```

Response:

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

StrcAddressServiceModify

This API enables the user to modify structure address.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM OBPM"

SERVICE-CONSUMER-SERVICE= "StrcAddressServiceModify"

Request:

```
{
        "department": "",
        "subDepartment": "",
        "streetName": "",
        "buildingNumber": "",
        "buildingName": "",
        "floor": "",
        "postbox": "",
        "room": "",
        "postcode": "",
        "townName": "",
        "townLocationName": "",
        "districtName": "",
        "countrySubDivision": "",
        "strrCountry": "",
        "virtualAccountNo": "",
        "branchId": ""
    }
```

Response:

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

StrcAddressServiceClose

This API enables the user to close structure address.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "StrcAddressServiceClose"

```
"department": "",
    "subDepartment": "",
    "streetName": "",
    "buildingNumber": "",
    "buildingName": "",
    "floor": "",
    "postbox": "",
    "room": "",
    "postcode": "",
    "townName": "",
    "districtName": "",
    "countrySubDivision": "",
```



```
"strrCountry": "",
    "virtualAccountNo": "",
    "branchId": ""
}

Response:
{
    "MSGSTAT":""
```

StrcAddressServiceReopen

This API enables the user to reopen structure address.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "StrcAddressServiceReopen"

Request:

```
{
        "department": "",
        "subDepartment": "",
        "streetName": "",
        "buildingNumber": "",
        "buildingName": "",
        "floor": "",
        "postbox": "",
        "room": "",
        "postcode": "",
        "townName": "",
        "townLocationName": "",
        "districtName": "",
        "countrySubDivision": "",
        "strrCountry": "",
        "virtualAccountNo": "",
        "branchId": ""
    }
```

Response:

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

CreateExtVirtualAcc

This API enables the user to create external virtual account.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "CreateExtVirtualAcc"

Request:

```
{
        "countryCode": "",
        "address4": " ",
        "address3": "",
        "address2": "",
        "address1": "",
        "ecaCheckReq": "",
        "accountClass": "",
        "acStatDormant": "",
        "acStatFrozen": "",
        "glStatBlocked": "",
        "acStatNoDr": "",
        "acStatNoCr": "",
        "acOpenDate": "",
        "custAcName": "",
        "custAcCcy": "",
        "customerNo": "",
        "sourceSystemAccBrn": "",
        "sourceSystemAccNo": "",
        "sourceSystem": "",
        "custAcIban": "",
        "hostCode": "",
        "custAccountNo": "",
        "branchId": ""
    }
```

Response:

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

ModifyExtVirtualAcc

This API enables the user to modify external virtual account.

Request / Response for OBPM Version 14.4

```
SERVICE-CONSUMER = "OBVAM_OBPM"
```

SERVICE-CONSUMER-SERVICE= "ModifyExtVirtualAcc"

```
{
    "countryCode": "",
    "address4": " ",
    "address3": "",
    "address2": "",
    "address1": "",
    "ecaCheckReq": "",
    "accountClass": "",
    "acStatDormant": "",
    "acStatFrozen": "",
```



```
"glStatBlocked": "",
"acStatNoDr": "",
"acStatNoCr": "",
"acOpenDate": "",
"custAcName": "",
"custAcCcy": "",
"customerNo": "",
"sourceSystemAccBrn": "",
"sourceSystemAccNo": "",
"sourceSystem": "",
"custAcIban": "",
"hostCode": "",
"custAccountNo": "",
"branchId": ""
```

Response:

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

CloseExtVirtualAcc

This API enables the user to close external virtual account.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "CloseExtVirtualAcc"

```
{
        "countryCode": "",
        "address4": " ",
        "address3": "",
        "address2": "",
        "address1": "",
        "ecaCheckReq": "",
        "accountClass": "",
        "acStatDormant": "",
        "acStatFrozen": "",
        "qlStatBlocked": "",
        "acStatNoDr": "",
        "acStatNoCr": "",
        "acOpenDate": "",
        "custAcName": "",
        "custAcCcy": "",
        "customerNo": "",
        "sourceSystemAccBrn": "",
        "sourceSystemAccNo": "",
        "sourceSystem": "",
        "custAcIban": "",
        "hostCode": "",
```



```
"custAccountNo": "",
    "branchId": ""
}
```

Response:

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

ReopenExtVirtualAcc

This API enables the user to reopen external virtual account.

Request / Response for OBPM Version 14.4

SERVICE-CONSUMER = "OBVAM_OBPM"

SERVICE-CONSUMER-SERVICE= "ReopenExtVirtualAcc"

Request:

```
{
        "countryCode": "",
        "address4": " ",
        "address3": "",
        "address2": "",
        "address1": "",
        "ecaCheckReq": "",
        "accountClass": "",
        "acStatDormant": "",
        "acStatFrozen": "",
        "glStatBlocked": "",
        "acStatNoDr": "",
        "acStatNoCr": "",
        "acOpenDate": "",
        "custAcName": "",
        "custAcCcy": "",
        "customerNo": "",
        "sourceSystemAccBrn": "",
        "sourceSystemAccNo": "",
        "sourceSystem": "",
        "custAcIban": "",
        "hostCode": "",
        "custAccountNo": "",
        "branchId": ""
    }
```

Response:

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



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. fetchgcSclcRate
- 2. closelEAccount
- 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.



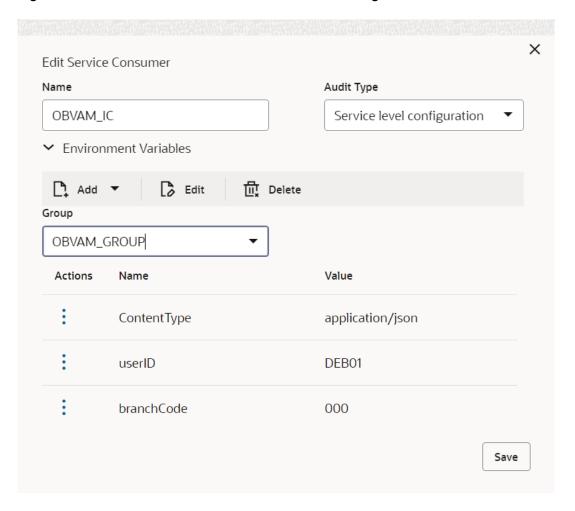


Figure 1-15 Edit Service Consumer - Interest and Charges

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:

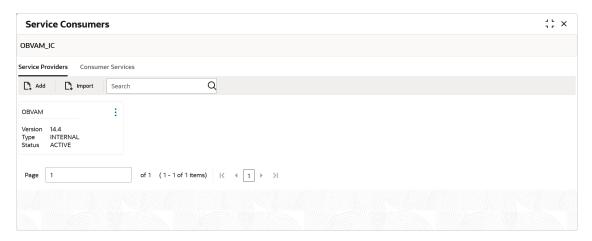
- Service Providers Interest and Charges
 This topic describes about the service providers configuration for Interest and Charges.
- Consumer Services Interest and Charges
 This topic describes about the consumer services required for Interest and Charges
 Implementation.

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 1-16 Service Providers - Interest and Charges



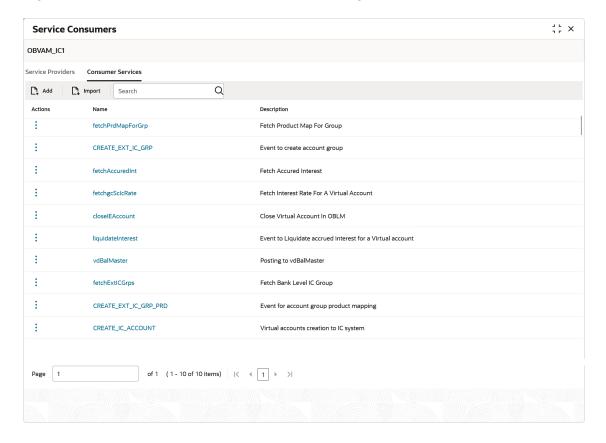
1.2.4.2 Consumer Services - Interest and Charges

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:

- Fetch Interest Rate for A Virtual Account (fetchgcSclcRate)
- Close Virtual Account (closeIEAccount)
- 3. Event for account group product mapping (CREATE EXT IC GRP PRD)
- Fetch Accrued Interest (fetchAccuredInt)
- Event to create account group (CREATE_EXT_IC_GRP)
- Event to Liquidate accrued interest for a Virtual account (liquidateInterest)
- 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 1-17 Consumer Services - Interest and Charges



fetchgcSclcRate

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

Request / Response

SERVICE-CONSUMER = "OBVAM_IC"

SERVICE-CONSUMER-SERVICE = "fetchgcSclcRate"

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"
```

closelEAccount

This API enables the user to close a Virtual Account.

Request / Response

SERVICE-CONSUMER = "OBVAM IC"

SERVICE-CONSUMER-SERVICE = "closeIEAccount"

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



Response:

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:

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:

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:

Response:

fetchExtlCGrps

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

Request / Response

```
SERVICE-CONSUMER = "OBVAM_IC"
```

SERVICE-CONSUMER-SERVICE = "fetchExtICGrps"

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



Response:

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:

{



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"

```
"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:

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:



```
"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:

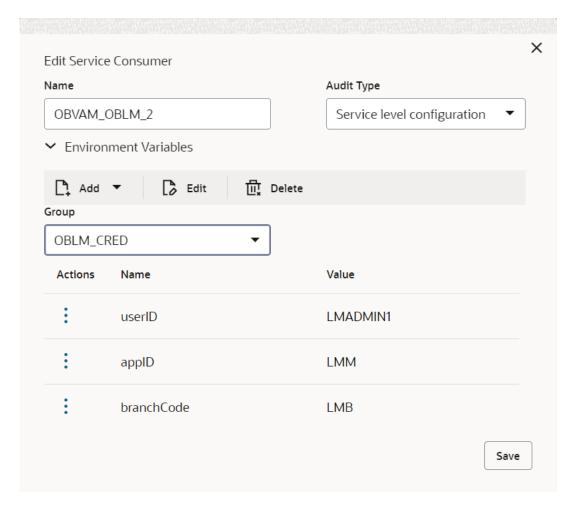
1. getLMAccount

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 1-18 Edit Service Consumer - 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:

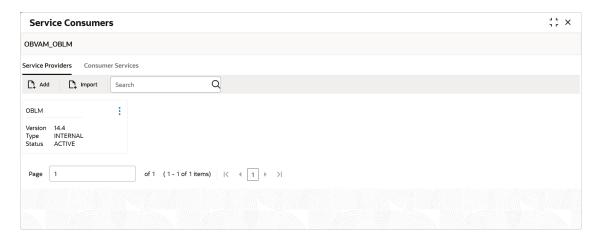
- Service Providers Oracle Banking Liquidity Management
 This topic describes about the service providers configuration for Oracle Banking Liquidity Management.

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 1-19 Service Providers - Oracle Banking Liquidity Management





Save

Edit Service Provider

Headers

Service

Type
URL

WSDL

Import

Required

WSDL

Operation

SWAGGER

Figure 1-20 Service Providers - Edit Service Provider

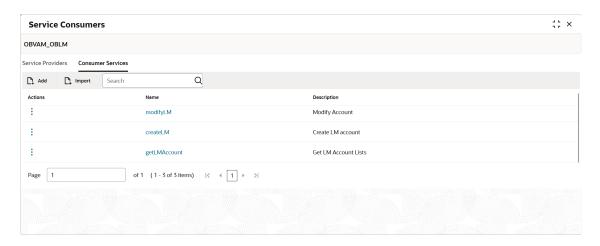
1.2.5.2 Consumer Services - Oracle Banking Liquidity Management

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 1-21 Consumer Services - Oracle Banking Liquidity Management



getLMAccount

OTHERS

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

```
{
       "includeAllAccount": "",
       "authStat": "",
       "multiCcyAccountNumber": "",
       "isProspect": "",
       "acyAvailableBal": "",
       "offset": "",
       "isExternal": "",
       "includecloseandunauth": "",
       "recordStat": "0",
       "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": "0",
                    "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": {
```

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.

- 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.

X Edit Service Consumer Audit Type Name OBVAM OBEDX Service level configuration Environment Variables ग्रि Delete Add! Group OBEDX_144_GROUP Actions Name Value userID **EDXWORKFLOW OBEDX** appID branchCode 006 Save

Figure 1-22 Edit Service Consumer - Oracle Banking Electronic Data Exchange

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 1-23 Service Providers - Oracle Banking Electronic Data Exchange

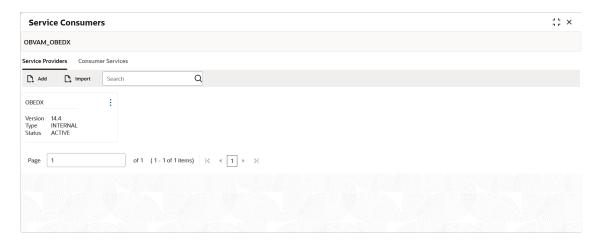
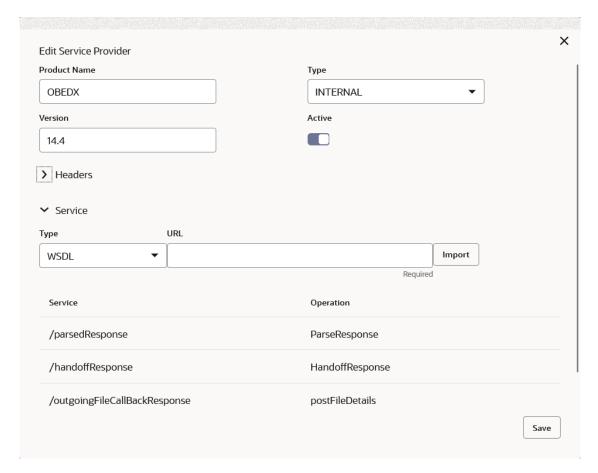


Figure 1-24 Service Providers - Edit Service Provider



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

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



}

Figure 1-25 View Transformation





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 1-26 Consumer Services - OBVAM_OBEDX

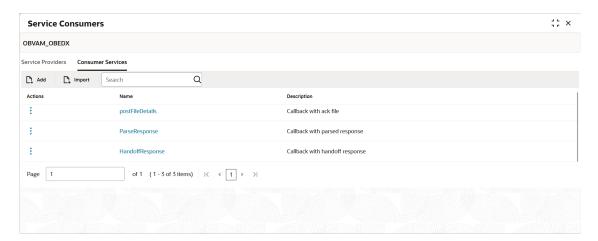
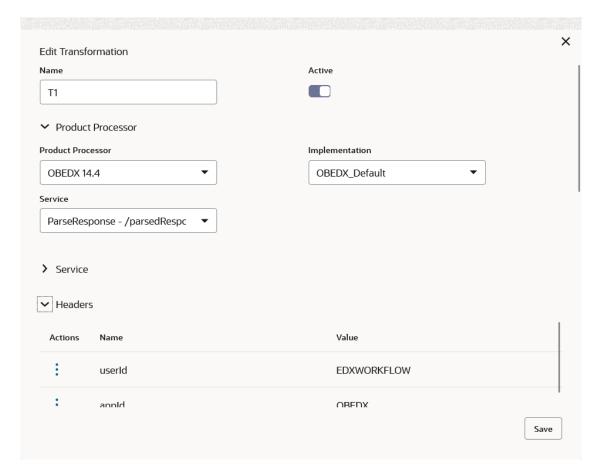




Figure 1-27 Edit Transformation - OBVAM_OBEDX



HandoffResponse

```
{
    "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

```
{
    "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": [
],
"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"
```

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"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"
    1
}
Response:
    "headers": {},
    "body": {
        "data": {
            "messages": {
                "status": "SUCCESS",
                "codes": [
                    "information": false,
```



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