

# Oracle® Banking Virtual Account Management Cloud Service

## Oracle Banking Routing Hub Integration Guide



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G17304-01

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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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.

## 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
<b>boldface</b>	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 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.

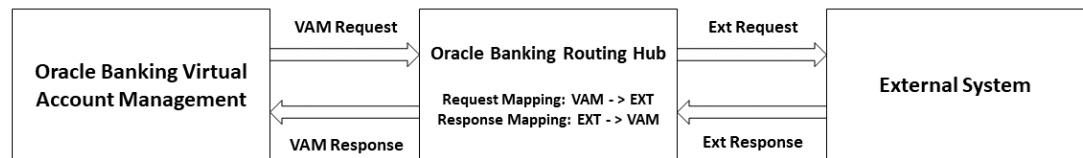
- [Introduction](#)  
This topic provides the overview about Oracle Banking Routing Hub.
- [APIs configured using Oracle Banking Routing Hub](#)  
This topic describes about the various APIs configured using Oracle Banking Routing Hub.

### 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
<b>closeECA</b>	FCUBS OBA	14.1 / 14.4 14.7
<b>EAC</b>	FCUBS OBA	14.1 / 14.4 14.7
<b>createECA</b>	FCUBS OBA	14.1 / 14.4 14.7
<b>handofftoDDA</b>	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.

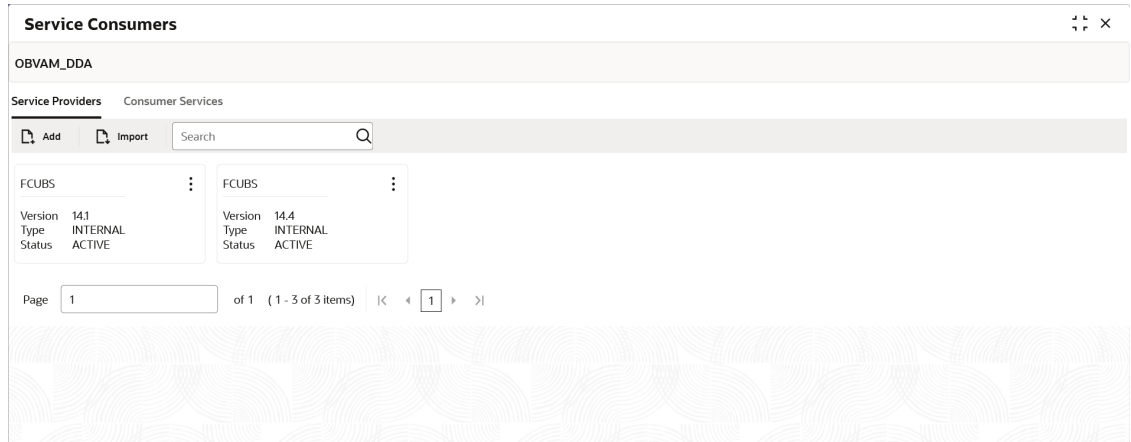
### 1.2.1.1 Service Providers - DDA

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.

1. 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**

Edit Service Consumer

Name:

Audit Type:

Environment Variables

Add

Group

Required

Actions	Name	Value
No data to display.		

3. Under **Environment Variables** section, click **Add** button.
4. Click **Group** from the dropdown list.  
The **Add Environment Group** screen displays.

**Figure 1-4 Add Environment Group**

Add Environment Group

Name:

Enter 0 to 255 characters.  
No numeric value allowed at beginning.No space allowed.

5. 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.

- Click **Variable** from the dropdown list.  
 The **Add Environment Variable** screen displays.

**Figure 1-5 Add Environment Variable**

The screenshot shows a dialog box titled "Add Environment Variable" with a close button (X) in the top right corner. The dialog contains two input fields: "Name" with the text "userID" and "Value" with the text "ADMINUSER1". An "OK" button is positioned at the bottom right of the dialog.

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

**Table 1-2 Environment Variables - Parameters**

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

- Click **OK** button to add the environment variables.  
 The **Edit Service Consumer - Review** screen displays.

Figure 1-6 Edit Service Consumer - Review

The screenshot shows a dialog box titled "Edit Service Consumer" with a close button (X) in the top right corner. The dialog contains the following elements:

- Name:** A text input field containing "OBVAM\_DDA".
- Audit Type:** A dropdown menu showing "Service level configurator".
- Environment Variables:** A section with a downward arrow icon and the text "Environment Variables". Below it is a toolbar with three buttons: "Add" (with a plus icon), "Edit" (with a pencil icon), and "Delete" (with a trash icon).
- Group:** A dropdown menu showing "OBA\_GROUP".
- Table:** A table with three columns: "Actions", "Name", and "Value". It contains one row with a vertical ellipsis icon in the "Actions" column, "userId" in the "Name" column, and "ADMINUSER1" in the "Value" column.
- Save Button:** A button labeled "Save" located at the bottom right of the dialog.

11. 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:

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

**Figure 1-7 Consumer Services - DDA**

Actions	Name	Description
⋮	closeECA	Close External Credit Approval
⋮	createECA	Create External Credit Approval
⋮	EAC	External Account Check
⋮	handoffToDda	hand off the transaction to 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": "",
  "creatEextRefNo": "",
  "ecaReferenceNo": "",
  "source": "",
  "effectiveDate": "",
  "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": "",
  "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/cmcc-obr-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 1-8 Edit Service Consumer - EXTERNAL ACCOUNT**

Actions	Name	Value
⋮	appld	VAM
⋮	branchCode	000
⋮	userId	DEB01

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:

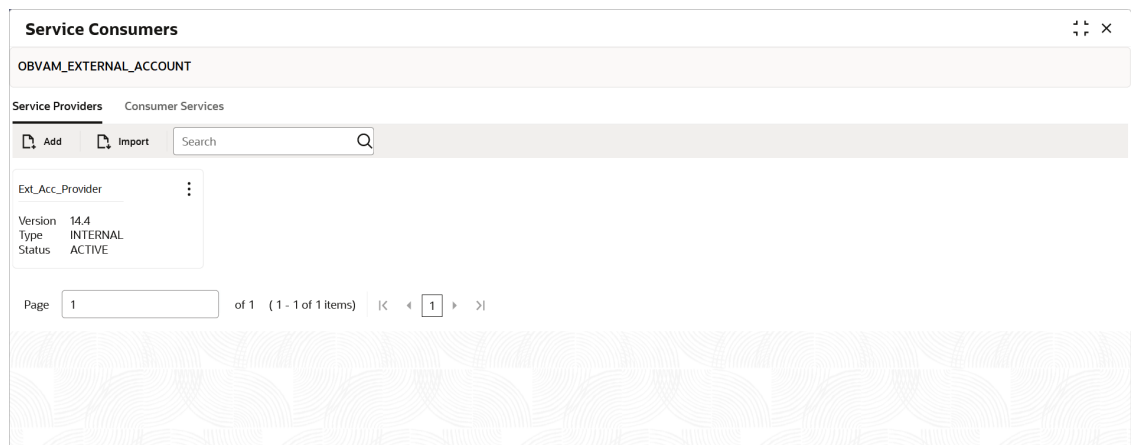
- [Service Providers - EXTERNAL ACCOUNT](#)  
This topic describes about the service providers configuration for EXTERNAL ACCOUNT.
- [Consumer Services - EXTERNAL ACCOUNT](#)  
This topic describes about the consumer services required for EXTERNAL ACCOUNT Implementation.

### 1.2.2.1 Service Providers - EXTERNAL ACCOUNT

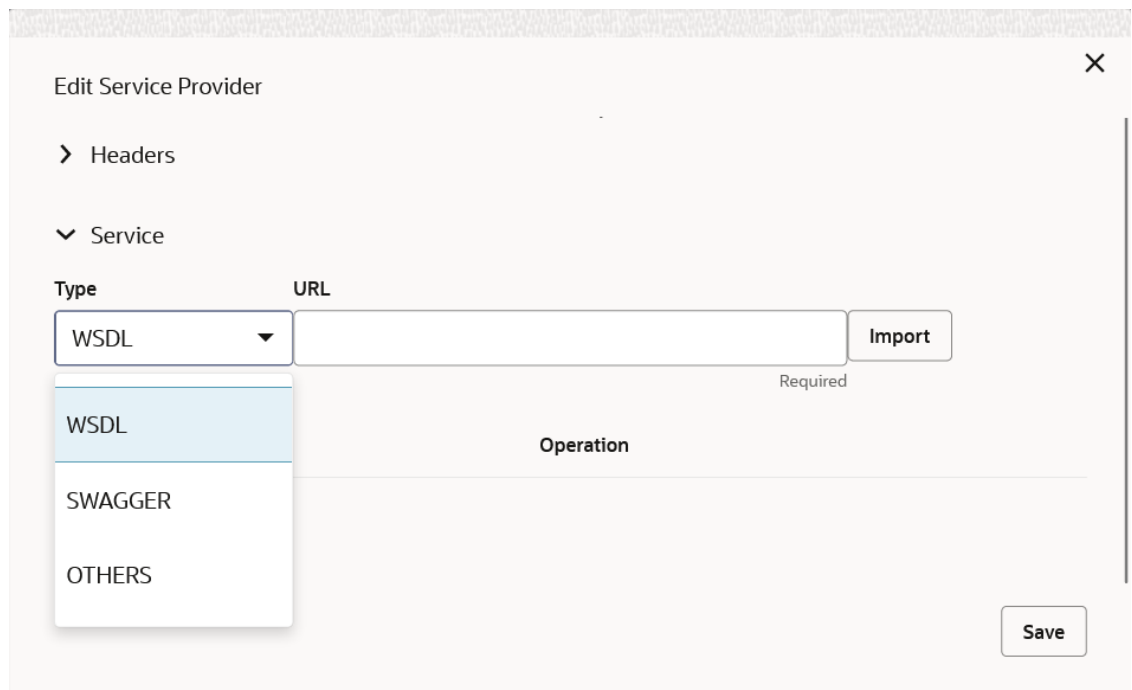
This topic describes about the service providers configuration for EXTERNAL ACCOUNT.

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**



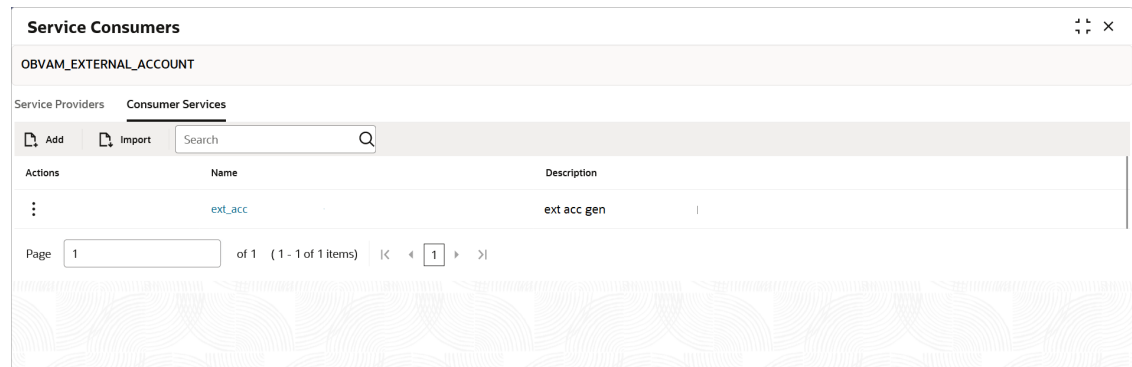
## 1.2.2.2 Consumer Services - EXTERNAL ACCOUNT

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:

1. 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.

#### **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**
2. **StrcAddressServiceCreate**
3. **StrcAddressServiceModify**
4. **StrcAddressServiceClose**
5. **StrcAddressServiceReopen**
6. **CreateExtVirtualAcc**
7. **ModifyExtVirtualAcc**
8. **CloseExtVirtualAcc**
9. **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**

Environment Variables

Actions	Name	Value
⋮	moduleId	PM
⋮	userId	SYSTEM
⋮	userBranch	000

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:

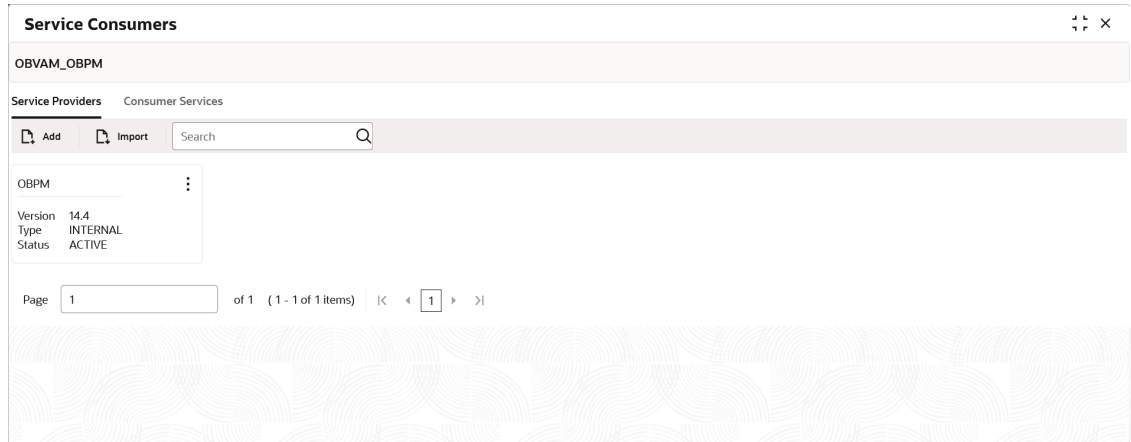
- [Service Providers - Oracle Banking Payments](#)  
This topic describes about the service providers configuration for Oracle Banking Payments.
- [Consumer Services - Oracle Banking Payments](#)  
This topic describes about the consumer services required for Oracle Banking Payments Implementation.

### 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:

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

**Figure 1-14 Consumer Services - Oracle Banking Payments**

Actions	Name	Description
⋮	StrcAddressServiceCreate	StrcAddressServiceCreate
⋮	StrcAddressServiceReopen	StrcAddressServiceReopen
⋮	CreateExtVirtualAcc	Create external Virtual Account
⋮	PendingPaymentQuery	Query for pending payment
⋮	ReopenExtVirtualAcc	ReopenExtVirtualAcc
⋮	ModifyExtVirtualAcc	ModifyExtVirtualAcc
⋮	StrcAddressServiceClose	StrcAddressServiceClose
⋮	StrcAddressServiceModify	StrcAddressServiceModify
⋮	CloseExtVirtualAcc	CloseExtVirtualAcc

### 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
    "transactionId": ""
  }
}
```

**Response:**

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

**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"

**Request:**

```
{
    "department": "",
    "subDepartment": "",
    "streetName": "",
    "buildingNumber": "",
    "buildingName": "",
    "floor": "",
    "postbox": "",
    "room": "",
    "postcode": "",
    "townName": "",
    "townLocationName": "",
    "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"

**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": ""
}

```

**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"

**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":""
}
```

**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. **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 1-15 Edit Service Consumer - Interest and Charges**

Edit Service Consumer

Name:  Audit Type:

Environment Variables

Group:

Actions	Name	Value
⋮	ContentType	application/json
⋮	userID	DEB01
⋮	branchCode	000

Save

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:

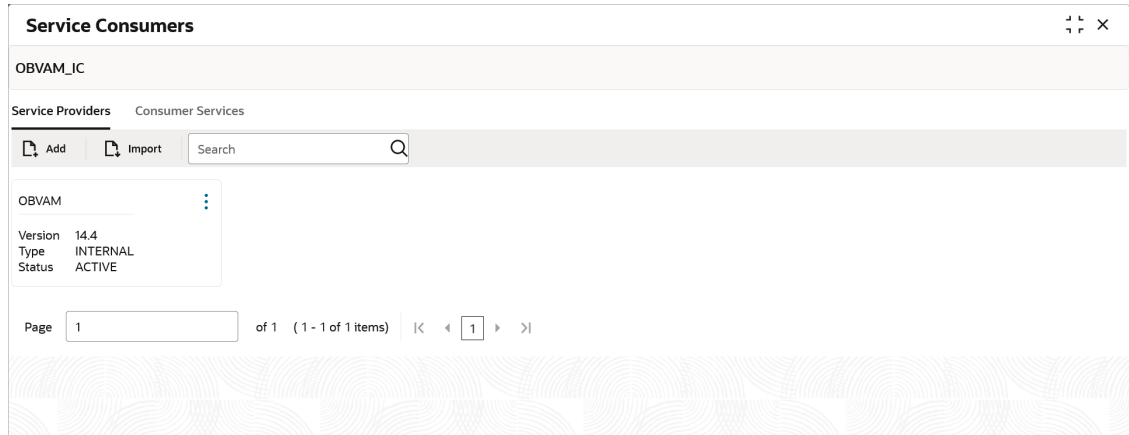
- [Service Providers - Interest and Charges](#)  
This topic describes about the service providers configuration for Interest and Charges.
- [Consumer Services - Interest and Charges](#)  
This topic describes about the consumer services required for Interest and Charges Implementation.

### 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:

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 1-17 Consumer Services - Interest and Charges**

Service Consumers		
OBVAM_IC1		
Service Providers <b>Consumer Services</b>		
<input type="button" value="Add"/> <input type="button" value="Import"/> <input type="text" value="Search"/>		
Actions	Name	Description
⋮	fetchPrdMapForGrp	Fetch Product Map For Group
⋮	CREATE_EXT_IC_GRP	Event to create account group
⋮	fetchAccuredInt	Fetch Accured Interest
⋮	fetchgcScIcRate	Fetch Interest Rate For A Virtual Account
⋮	closeIAccount	Close Virtual Account In OBLM
⋮	liquidateInterest	Event to Liquidate accrued interest for a Virtual account
⋮	vdBalMaster	Posting to vdBalMaster
⋮	fetchExtICGrps	Fetch Bank Level IC Group
⋮	CREATE_EXT_IC_GRP_PRD	Event for account group product mapping
⋮	CREATE_IC_ACCOUNT	Virtual accounts creation to IC system
Page <input type="text" value="1"/> of 1 (1 - 10 of 10 items)  < < 1 > >		

### 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 1-18 Edit Service Consumer - Oracle Banking Liquidity Management**

Environment Variables

Actions	Name	Value
⋮	userID	LMADMIN1
⋮	appID	LMM
⋮	branchCode	LMB

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:

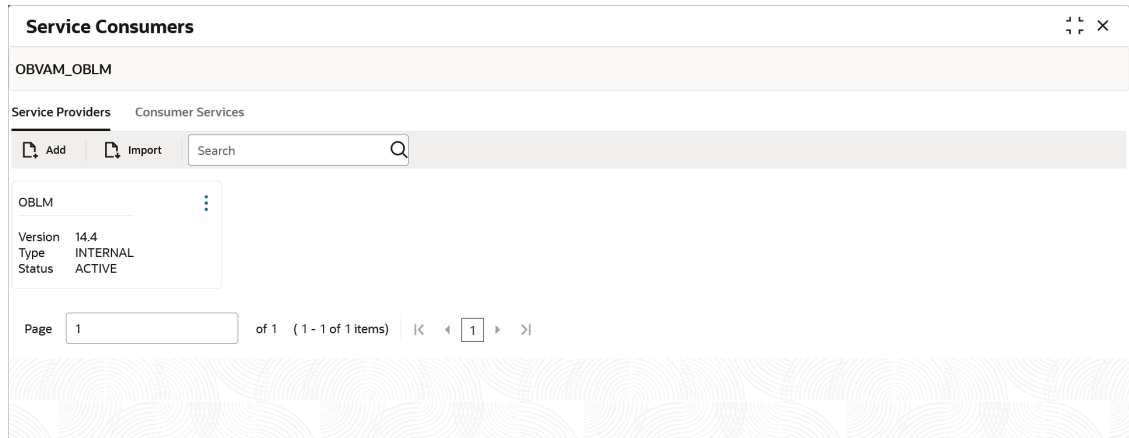
- [Service Providers - Oracle Banking Liquidity Management](#)  
This topic describes about the service providers configuration for Oracle Banking Liquidity Management.
- [Consumer Services - Oracle Banking Liquidity Management](#)  
This topic describes about the consumer services required for Oracle 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 1-19 Service Providers - Oracle Banking Liquidity Management**



**Figure 1-20 Service Providers - Edit Service Provider**

Edit Service Provider

> Headers

▼ Service

Type URL

WSDL  Import

Required

WSDL

SWAGGER

OTHERS

Operation

Save

## 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**

Service Consumers

OBVAM\_OBLM

Service Providers Consumer Services

Add Import Search

Actions	Name	Description
⋮	modifyLM	Modify Account
⋮	createLM	Create LM account
⋮	getLMAccount	Get LM Account Lists

Page 1 of 1 (1 - 3 of 3 items) |< < 1 > >|

### 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 1-22 Edit Service Consumer - Oracle Banking Electronic Data Exchange**

Environment Variables

Actions	Name	Value
⋮	userID	EDXWORKFLOW
⋮	appID	OBEDX
⋮	branchCode	006

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.

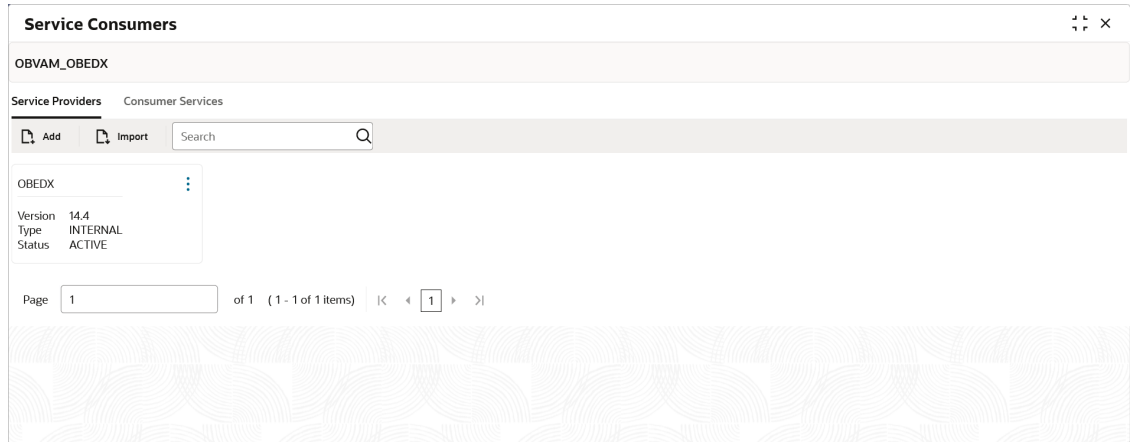
### 1.2.6.1 Service Providers - Oracle Banking Electronic Data Exchange

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

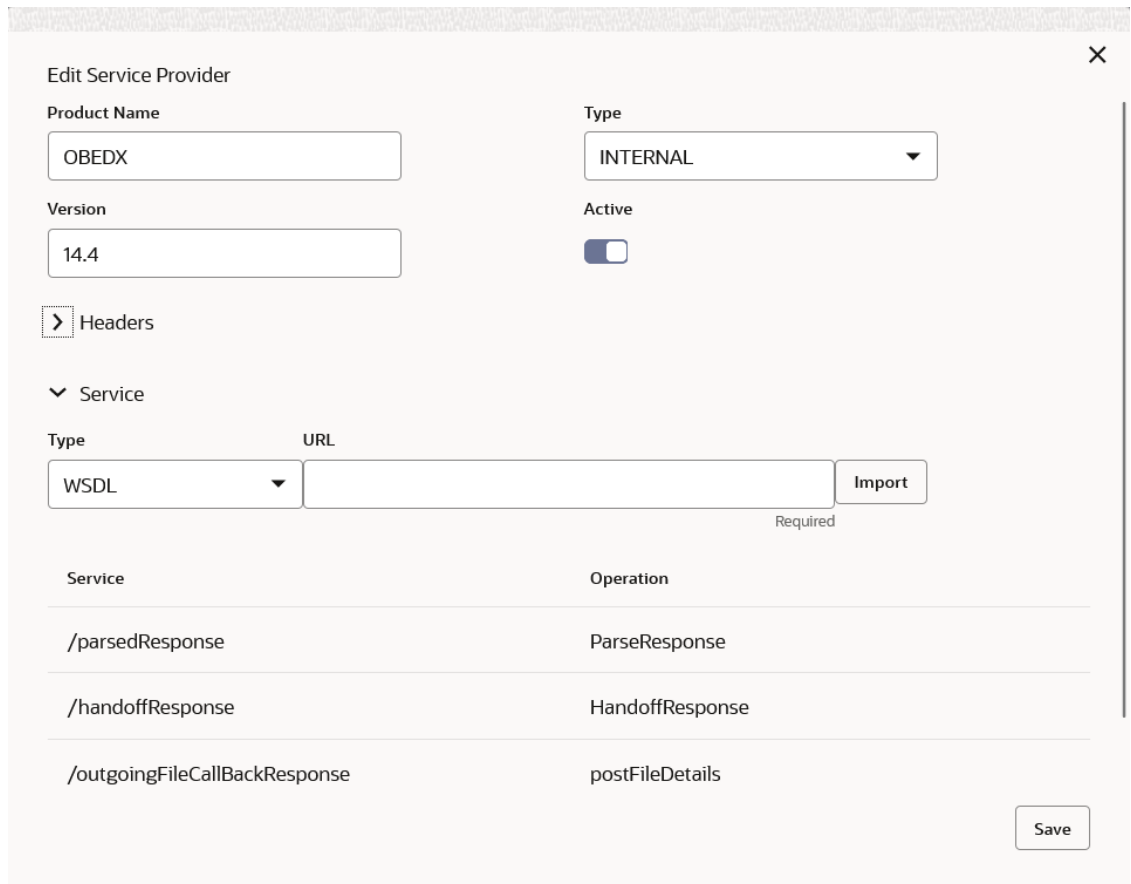
To configure the Oracle Banking Electronic Data Exchange in Oracle Banking Routing Hub, import WSDL / Swagger provided by Oracle Banking Electronic Data Exchange.



**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**

The screenshot shows a configuration window titled "View Transformation" with a close button (X) in the top right corner. The window contains the following configuration details:

Name	Active
T1	On

Product Processor

Product Processor	Implementation
OBEDX 14.4	OBEDX_Default

Service

ParseResponse - /parsedResponse

- > Service
- > Headers
- > Path Parameters
- > Query Parameters

Request Transformation

Body Type	Template Type
RAW	VELOCITY

Template

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

Extended Template

## 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**

Service Consumers		
OBVAM_OBEDX		
Service Providers <b>Consumer Services</b>		
Add    Import    Search		
Actions	Name	Description
⋮	postFileDetails	Callback with ack file
⋮	ParseResponse	Callback with parsed response
⋮	HandoffResponse	Callback with handoff response

Page 1 of 1 (1 - 3 of 3 items) |< < 1 > >|

**Figure 1-27 Edit Transformation - OBVAM\_OBEDX**

Edit Transformation
✕

**Name**

**Active**

▼ Product Processor

**Product Processor**

**Implementation**

**Service**

> Service

▼ Headers

Actions	Name	Value
⋮	userid	EDXWORKFLOW
⋮	annId	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  
}  
}  
}
```

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