

Oracle® Financial Services Performance Analytics API Reference Guide



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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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Preface

This section provides information about the Oracle Financial Services Performance Analytics (OFS PA) Application User Guide. OFS PA Applications are packaged as part of the OFS PFT Applications Pack.

Topics:

- [Audience](#)
- [Access to Oracle Support](#)
- [Related Information Sources](#)
- [Additional Documents to Read](#)
- [Conventions](#)
- [Abbreviations](#)

1.1 Audience

This user guide is intended for the users of the Oracle Financial Services Performance Analytics (OFS IPA) Application.

1.2 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For more information, visit [My Oracle Support](#) or visit [Oracle Accessibility Learning and Support](#) if you are hearing impaired.

1.3 Related Information Sources

This section identifies additional documents related to the OFS IPA Application.

You can access the below documents online from the Oracle Help Center (OHC) [Documentation Library](#) for OFS PA Applications Pack:

- OFS Performance Analytics Application Pack Release Notes
- OFS Performance Analytics Applications Pack Installation and Configuration Guide
- OFS Performance Analytics Operational User Guide
- OFS Performance Analytics Business User Guide
- OFS Performance Analytics OBIEE Reports User Guide Release

[Performance Analytics Security Guides:](#)

- OFS Institutional Performance Analytics Security Guide Release 8.1.x
- OFS Retail Performance Analytics Security Guide Release 8.1.x

[Performance Analytics Cloning Reference Guides:](#)

- OFS Institutional Performance Analytics Cloning Reference Guide Release 8.1.x
- OFS Retail Performance Analytics Cloning Reference Guide Release 8.1.x

[Data Protection Guide:](#)

- OFS Performane Analytics Data Protection Guide Release 8.1.x

1.4 Additional Documents to Read

Oracle Financial Services Profitability Analytics Applications Pack is built on the Oracle Financial Services Advanced Analytical Applications Infrastructure (OFS AAI).

See the following [OFS AAI Documents](#) as no separate documents are required at the pack or application level for Oracle Financial Services Profitability Analytics Applications Pack:

- OFS Analytical Applications Infrastructure (OFS AAI) Application Pack Installation and Configuration Guide Release 8.1.2.0.0
- OFS Analytical Applications Infrastructure Administration Guide Release 8.1.x
- OFS Analytical Applications Infrastructure User Guide Release 8.1.2.0.0
- OFS Analytical Applications Infrastructure Cloning Reference Guide Release 8.1.x
- OFS Analytical Applications Infrastructure Security Guide Release 8.1.x

You can access the common document from the OHC Documentation Library:

- [OFSAA Licensing Information User Manual](#)
- [OFS Analytical Applications 8.1.2.0.0 Technology Matrix](#)

1.5 Conventions

The following text conventions are used in this document:

Table 1-1 Conventions Used in this Guide

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, file names, text that appears on the screen, or text that you enter.
Hyperlink	Hyperlink type indicates the links to external websites, internal document links to sections.

1.6 Abbreviations

The following table lists the abbreviations used in this document:

Abbreviation	Meaning
BDP	Big Data Processing
DBA	Database Administrator
DDL	Data Definition Language
DEFQ	Data Entry Forms and Queries
DML	Data Manipulation Language
EAR	Enterprise Archive
EJB	Enterprise JavaBean
ERM	Enterprise Resource Management
FTP	File Transfer Protocol
HDFS	Hadoop Distributed File System
HTTPS	Hypertext Transfer Protocol Secure
J2C	J2EE Connector
J2EE	Java 2 Enterprise Edition
JCE	Java Cryptography Extension
JDBC	Java Database Connectivity
JDK	Java Development Kit
JNDI	Java Naming and Directory Interface
JRE	Java Runtime Environment
JVM	Java Virtual Machine
LDAP	Lightweight Directory Access Protocol
LHS	Left Hand Side
MFA	Multi-Factor Authentication
MOS	My Oracle Support
OFSA	Oracle Financial Services Analytical Applications
OFSAI	Oracle Financial Services Analytical Application Infrastructure
OFSAAI	Oracle Financial Services Advanced Analytical Applications Infrastructure Application Pack
OHC	Oracle Help Center
OLAP	On-Line Analytical Processing
OLH	Oracle Loader for Hadoop
ORAAH	Oracle R Advanced Analytics for Hadoop
OS	Operating System
RAM	Random Access Memory
RDBMS	Relational Database Management System
RHEL	Red Hat Enterprise Linux
SFTP	Secure File Transfer Protocol
SID	System Identifier
SSL	Secure Sockets Layer
TNS	Transparent Network Substrate
URL	Uniform Resource Locator
VM	Virtual Machine
WAR	Web Archive
XML	Extensible Markup Language

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About REST APIs

You can use Oracle REST APIs to view data stored in Oracle Performance Analytics (PA) Applications. A REST API (also known as RESTful API) is an application programming interface (API or web API) that conforms to the constraints of REST architectural style and allows for interaction with RESTful web services.

Oracle Performance Analytics (PA) Applications provide a Representational State Transfer (REST) API to perform user tasks in an automated manner. The REST API is an application-programming interface that provides a simplified way to exchange data through HTTP requests from a client to the server. In REST APIs, a resource is an object with a type, associated data, and relationships to other resources. You can use a set of HTTP methods to access each resource. Resources are organized in a hierarchical structure that enables:

- Better organization, by grouping related data so that you can efficiently customize the resources.
- Improved performance by using a single HTTP request to handle multiple resources.

2.1 ORDS APIs for PA and PCD Applications

The ORDS API for Price Creation and Discovery, Customer Information applications does the following:

- **Segment Types (All):** This REST API is used to fetch all the Segment Types.
 - **Method:** GET
 - **Path:** /rest-v1/segmentTypes/
- **Segment Averages:** This REST API is used to fetch the Segment Averages.
 - **Method:** GET
 - **Path:** /rest-v1/segmentAverages/
- **Segment Averages (Specific):** This REST API is used to fetch the Segment Averages.
 - **Method:** POST
 - **Path:** /rest-v1/segmentAverages/
- **Customer Segment:** This REST API is used to fetch the Segment Averages.
 - **Method:** POST
 - **Path:** /rest-v1/customerSegment/
- **Segment Metrics:** This REST API is used to fetch the Segment Averages.
 - **Method:** POST
 - **Path:** /rest-v1/segmentMetrics/

3

Getting Started

This chapter covers the following topics:

- [Quick Start](#)
- [Authentication](#)
- [Status Codes](#)

3.1 Quick Start

Set up your environment and retrieve your first task list for Oracle Integration using the REST API by performing the following tasks.

Prerequisites:

- Access to Performance Analytics.
- Appropriate user privileges to access the services.
- Technical and functional knowledge to understand and execute the REST APIs and configuration knowledge.
- Knowledge of REST concepts, JSON, browser-based REST client.
- Knowledge of an interactive and automatic tool for verifying the APIs such as Postman.

3.1.1 Obtain Account Information

The account creation e-mail from Oracle contains the identity domain name for the Oracle Performance Analytics instance. If you do not have this information, then contact your service administrator.

3.2 Authentication

Ensure that you have the appropriate log-in credentials for accessing the Oracle Performance Analytics service, and the appropriate role for creating, managing, and deleting service instances.

To get authentication, follow these steps:

1. Log in to **Admin Console**. For more information, see Admin Console.
2. Go to **Component Details** and click **AUTH** tab. The **Client ID** and **Client Password** details are displayed.
3. Copy Client ID and Client Password.
4. Open **Postman** or relevant API tools. Select POST method and paste the URL:
`https://ip:port/oauth2/v1/token`

Replace the ip:port with the tenant URL or domain name.

5. Click the **Authorization** tab. Go to the **Type** field and select **Basic Auth** from the drop-down list. The User name and Password fields are displayed.
6. Enter the User Name and Password that you have copied in step-3.
7. Go to the **Body** tab. Select request format as: **x-www-form-urlencoded**.
8. Enter the KEY and Value fields as mentioned in the table:
The following table explains the KEY and VALUE details.

Table 3-1 KEY-VALUE Details

KEY	VALUE
grant_type	client_credentials
scope	urn:opc:idm:__myscopes__

9. Click the **Header** tab. The Header details are displayed.
10. Enter the details explained in the following table:

Table 3-2 KEY-VALUE Details

KEY	VALUE
Postman-Token	client_credentials
scope	urn:opc:idm:__myscopes__
Content-Type	application/x-www-form-urlencoded
Content-Length	<calculated when request is sent>
Host	<calculated when request is sent>
User-Agent	PostmanRuntime/7.28.0
Accept	*/*
Accept-Encoding	gzip,deflate,br
Connection	keep-alive

11. Click **Send**. An Authorization token is generated in the Response body.
For example, <eyJ4NXQjUz11Nil6lkk3cWxndm1Kal...>
This authentication key is valid for a stipulated time.
12. Copy only the Authorization token details.

3.3 Status Codes

When you call any of the Oracle Integration REST resources, the Response header returns one of the standard HTTP status codes defined in the following table.

Table 3-3 HTTP Status Codes and Descriptions

HTTP Status Code	Description
200 OK	The request was successfully completed. A 200 status is returned for a successful GET or POST method.

Table 3-3 (Cont.) HTTP Status Codes and Descriptions

HTTP Status Code	Description
201 Created	The request has been fulfilled and resulted in a new resource being created. The response includes a Location header containing the canonical URI for the newly created resource. A 201 status is returned from a synchronous resource creation or an asynchronous resource creation that completed before the response was returned.
202 Accepted	The request has been accepted for processing, but the processing has not been completed. The request may or may not eventually be acted upon, as it may be disallowed at the time processing actually takes place. A 202 may be returned if an operation is still in progress or does not complete in a reasonable amount of time. The response contains a Location header of a job resource that the client should poll to determine when the job has finished. The response also returns an entity that contains the current state of the job.
400 Bad Request	The request could not be processed because it contains missing or invalid information (such as, a validation error on an input field, a missing required value, and so on).
401 Unauthorized	The request is not authorized. The authentication credentials included with this request are missing or invalid.
403 Forbidden	The user cannot be authenticated. The user does not have authorization to perform this request.
404 Not Found	The request includes a resource URI that does not exist.
405 Method Not Allowed	The HTTP verb specified in the request (DELETE, GET, POST, PUT) is not supported for this request URI.
406 Not Acceptable	The resource identified by this request is not capable of generating a representation corresponding to one of the media types in the Accept header of the request. For example, the client's Accept header request XML be returned, but the resource can only return JSON.
415 Not Acceptable	The client's ContentType header is not correct (for example, the client attempts to send the request in XML, but the resource can only accept JSON).
500 Internal Server Error	The server encountered an unexpected condition that prevented it from fulfilling the request.

Table 3-3 (Cont.) HTTP Status Codes and Descriptions

HTTP Status Code	Description
503 Service Unavailable	The server is unable to handle the request due to temporary overloading or maintenance of the server. The Oracle Integration REST web application is not currently running.

<Enter a single subject here.>

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Segment Types (All)

Endpoint (HTTP Link): `http://<hostname>:<port>/rest-v1/segmentTypes/`

Service Type: GET

Query Prameters: No input required.

Request JSON Sample: No request

Response Parameters:

- `portfolio_code`
String
Refers to the Code for the Portfolio: Portfolio being that of Retail or Institutional.
- `portfolio_name`
String
Refers to the Name for the Portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String
Refers to the Code for Segment Type: Segment Type being Demographic/Risk Based/ Profitability/Behavioral, and so on.
- `segment_type_name`
String
Refers to the Name for Segment Type: Segment Type being Demographic/ Risk Based/ Profitability/ Behavioral, and so on.
- `is_default`
String
Default Income Statement.
-

Response JSON Sample:

```
{
  "items": [
    {
      "portfolio_code": "string",
      "portfolio_name": "string",
      "segment_type_code": "string",
      "segment_type_name": "string",
      "is_default": "string"
    }
  ]
}
```

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Segment Averages

Endpoint (HTTP Link): `http://<hostname>:<port>/rest-v1/segmentAverages/`

Service Type: GET

Query Parameters: No input required.

Request JSON Sample: No request

Response Parameters:

- `portfolio_code`
String
Refers to the Code for the Portfolio: Portfolio being that of Retail or Institutional.
- `portfolio_name`
String
Refers to the Name for the Portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String
Refers to the Code for Segment Type : Segment Type being Demographic/ Risk Based/ Profitability/ Behavioral, and so on.
- `segment_type_name`
String
Refers to the Name for Segment Type: Segment Type being Demographic/ Risk Based/ Profitability/ Behavioral, and so on.
- `segment_code`
String
Refers to the Code for Segment within a particular Segment Type.
- `segment_name`
String
Refers to the Name for Segment within a particular Segment Type.
- `product_code`
String
Refers to the Code assigned to a Product.
- `product_name`
String
Refers to Name of Banking Product.
- `repline_code`
String
Refers to the Code assigned to a Reporting Line.
- `repline_name`

String

Refers to the Name assigned to a Reporting Line.

- repline_category

String

Refers to whether the Reporting Line is holding Amount field or a Balance field.

- v_iso_currency_cd

String

Code Indicating Functional Currency.

- month_on_book

Refers to the Age of the Account on Banking books.

- repline_value

Value of the field corresponding to the Reporting line.

- language_code

String

Code Indicating the Language.

Response JSON Sample:

```
{
  "items": [
    {
      "portfolio_code": "string",
      "portfolio_name": "string",
      "segment_type_code": "string",
      "segment_type_name": "string",
      "segment_code": "string",
      "segment_name": "string",
      "product_code": "string",
      "product_name": "string",
      "repline_code": "string",
      "repline_name": "string",
      "repline_category": "string",
      "v_iso_currency_cd": "string",
      "month_on_book": 0,
      "repline_value": 0,
      "language_code": "string"
    }
  ]
}
```

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Segment Averages (Specific)

Endpoint (HTTP Link): `http://<hostname>:<port>/rest-v1/segmentAverages/`

Service Type: POST

Query Parameters: Not applicable

Request Parameters:

- `portfolio_code`
String
Refers to the Code for the portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String
Refers to the Code for Segment Type : Segment Type being Demographic/ Risk Based/ Profitability/ Behavioral, and so on.
- `segment_code`
String
Refers to the Code for Segment within a particular Segment Type.
- `product_code`
String
Refers to the Code assigned to a Product.
- `replines`
 - `replineCode`
String
Refers to the Code assigned to a Reporting Line.

Request JSON Sample:

```
{"portfolio_code": "string", "segment_type_code": "string", "segment_code": "string", "product_code": "string", "replines": [{"replineCode": "string"}]}
```

Response Parameters:

- `portfolio_code`
String
Refers to the Code for the portfolio: Portfolio being that of Retail or Institutional.
- `portfolio_name`
String
Refers to the Name for the portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String

Refers to the Code for Segment Type : Segment Type being Demographic/Risk Based/Profitability/Behavioral, and so on.

- `segment_type_name`
String

Refers to the Name for Segment Type: Segment Type being Demographic/Risk Based/Profitability/Behavioral, and so on.

- `segment_code`
String

Refers to the Code for Segment within a particular Segment Type.

- `product_code`
String

Refers to the Code assigned to a Product.

- `product_name`
String

Refers to Name of Banking Product.

- `language_code`
String

Code Indicating Language.

- `replines`

- `repline_code`
String

Refers to the Code assigned to a Reporting Line.

- `repline_name`
String

Refers to the Name assigned to a Reporting Line.

- `repline_category`
String

Refers to whether the Reporting Line is holding Amount field or a Balance field.

- `currency_code`
String

Code Indicating the Base Currency.

- `month_on_book`
Number

Refers to the Age of the Account on Banking books.

- `repline_value`
Number

Value of the field corresponding to the Reporting line.

Response JSON Sample:

```
{
  "items": [
    {
      "portfolio_code": "string",
      "portfolio_name": "string",
      "segment_type_code": "string",
      "segment_type_name": "string"
    }
  ]
}
```

```
"string","segment_code": "string","segment_name": "string","product_code":  
"string","product_name": "string","language_code": "string","replines":  
[{"repline_code": "string","repline_name": "string","repline_category":  
"string","currency_code": "string","month_on_book": 0,"repline_value": 0}]}}
```

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Customer Segment

Endpoint (HTTP Link): `http://<hostname>:<port>/rest-v1/customerSegment/`

Service Type: POST

Request Parameters:

- `portfolio_code`
String
Refers to the Code for the Portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String
Refers to the Code for Segment Type : Segment Type being Demographic/Risk Based/ Profitability/Behavioral, and so on.
- `product_code`
String
Refers to the Code assigned to a Product.
- `customerAttributes`
 - `attributeName`
String
Name of the Attribute corresponding to the Column.
 - `attributeValue`
String
Value of the Attribute corresponding to the Column.
 - `attributeType`
String
Data Type of the Attribute corresponding to the Column for validation.
 - `attributeFormat`
String
Value format of the Attribute corresponding to the Column.
-

Request JSON Sample:

```
{"portfolio_code": "string", "segment_type_code": "string", "product_code":  
"string", "customerAttributes": [{"attributeName": "string", "attributeValue":  
"string", "attributeType": "string", "attributeFormat": "string"}]}
```

Response Parameters:

- `portfolio_code`
Refers to the Code for the portfolio: Portfolio being that of Retail or Institutional.

- `segment_type_code`
Refers to the Code for Segment Type : Segment Type being Demographic/Risk Based/Profitability/Behavioral, and so on.
- `product_code`
Refers to the Code assigned to a Product.
- `segment_code`
Refers to the Code for Segment within a particular Segment Type.
- `segment_name`
Refers to the Name for Segment within a particular Segment Type.

Response JSON Sample:

```
{
  "items": [
    {
      "portfolio_code": "string",
      "segment_type_code": "string",
      "product_code": "string",
      "segment_code": "string",
      "segment_name": "string"
    }
  ]
}
```

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Segment Metrics

Endpoint (HTTP Link): `http://<hostname>:<port>/rest-api /rest-v1/segmentMetrics/`

Service Type: POST

Request JSON Prameters:

- `portfolio_code`
String
Refers to the Code for the Portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String
Refers to the Code for Segment Type : Segment Type being Demographic/Risk Based/ Profitability/Behavioral, and so on.
- `segment_code`
String
Refers to the Code for Segment within a particular Segment Type.

Request JSON Sample:

```
{
  "items": [
    {
      "portfolio_code": "string",
      "segment_type_code": "string",
      "segment_code": "string",
    }
  ]
}
```

Response Parameters:

- `portfolio_code`
String
Refers to the Code for the Portfolio: Portfolio being that of Retail or Institutional.
- `segment_type_code`
String
Refers to the Code for Segment Type : Segment Type being Demographic/Risk Based/ Profitability/Behavioral, and so on.
- `segment_code`
String
Refers to the Code for Segment within a particular Segment Type.
- `rota`
Number

Return On Total Assets.

- raroc
Number

Risk Adjusted Return On Capital.

- roe
Number

Return On Equity.

- total_income
Number

Total income.

- total_expenses
Number

Total expenses.

- net_income
Number

Net income.**Response JSON Sample:**

```
{
  "items": [
    {
      "portfolio_code": "string",
      "segment_type_code": "string",
      "segment_code": "string",
      "rota": 0,
      "raroc": 0,
      "roe": 0,
      "total_income": 0,
      "total_expenses": 0,
      "net_income": 0
    }
  ]
}
```

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PA Mertics

(Required) <Enter a short description here.>

Endpoint (HTTP Link): http://<hostname>:<port>/rest-api/pa/v1/metric/post

Service Type: POST

Request JSON Prameters:

The following Request Parameters are Mandatory Parameters:

- SERVICE_TYPE
String
PERFORMANCE_METRICS for retrieving Metrics for an existing Account.
Or
SEGMENTATION for retrieving Segment of an existing Account.
- OPERATION_TYPE
String
ACCOUNT (hard coded for future provision)
- ACTION_TYPE
String
LOOKUP (hard coded for future provision)
- REQUEST_NUMBER
Number
A unique integer number. Should change each time.
- PARAMS
 - PARAM_CODE
String
"PARAMS": [
 {
 "PARAM_CODE": "INFODOM", "PARAM_VALUE": "<VALUE OF INFODOM>"
 },
 {
 "PARAM_CODE": "FOLDER", "PARAM_VALUE": "<VALUE OF FOLDER>"
 }
]

The VALUE OF FOLDER is not currently used. It is recommended to use DEFAULT for this parameter.
- PAYLOAD

- PARTY
 - * PARTY_ID
String
Customer ID
When PARTY_ID is not passed, it should be passed as NULL. Web Service will not accept blank value for this parameter.
- PARTY_ATTRIBUTES
String
This is not used. Give NULL as the parameter.
- ACCOUNTS
 - * ACCOUNT_NUMBER
String
When ACCOUNT_NUMBER is not passed, it should be passed as NULL. Web Service will not accept blank value for this parameter.
- EXEC_PARAMS
 - * PARAM_CODE
String
Pass AS_OF_DATE.
 - * PARAM_VALUE
String
Provide the Date on which you want the metrics in YYYYMMDD format.
- ACCOUNTS
 - * ACCOUNT_ATTRIBUTES
CUSTOMER_TYPE
String
Accepted values are:
 - * I: Institutional
 - * R: Retail
 - SEGMENT_TYPE
String
Accepted values are:
 - * D: Demographic
 - * P: Profitability
 - * B: Behavioral
 - * R: Risk
 - * C: Corporate

The following Request Parameters are Optional Parameters:

- V_PROD_CODE
- N_AGE

- V_GENDER
- V_MARITAL_STATUS
- V_INDUSTRY
- V_COUNTRY
- N_INCOME
- N_NIBT
- N_LTV
- N_EOP_BAL
- N_ENHANCED_LTV_F_UPGRADE_IND
- N_TOTAL_TRANSACTIONS
- N_AVERAGE_TRANSACTION_SIZE
- N_CUSTOMER_MOB
- N_LIMIT_UTILIZATION
- N_CREDIT_SCORE
- N_MITIGANT_VALUE
- N_DELINQUENT_DAYS
- N_LOAN_TO_VALUE
- V_PRIMARY_OR_SECONDARY_CUST
- N_YEAR_OF_INCORPORATION
- N_CUSTOMER_INCOME
- N_TOTAL_ASSETS
- F_CUSTOMER_LISTED_FLG
- N_EMPLOYEES
- N_TOTAL_ACCOUNTS
- N_RAROC
- N_ROTA
- V_CREDIT_RATING_CODE
- N_DEBT_COVERAGE_RATIO
- N_INTEREST_COVERAGE_RATIO

Request JSON Sample:

```
{
  "FSCARGO": {
    "LOCALE": "en-us",
    "USER": "DEMOUSER",
    "SERVICE_TYPE": "SEGMENTATION",
    "OPERATION_TYPE": "ACCOUNT",
    "ACTION_TYPE": "LOOKUP",
    "REQUEST_NUMBER": 26,
    "PARAMS": [
      {
        "PARAM_CODE": "INFODOM",
        "PARAM_VALUE": "OFSPTINFO"
      },
      {
        "PARAM_CODE": "FOLDER",
        "PARAM_VALUE": "PFTSEG"
      }
    ],
    "PAYLOAD": {
      "PARTY": {
        "PARTY_ID": "RBIB1C16",
        "PARTY_ATTRIBUTES": []
      },
      "ACCOUNTS": [
        {
          "ACCOUNT_NUMBER": "RBIB1C16A5",
          "ACCOUNT_ATTRIBUTES": []
        }
      ]
    }
  }
}
```

```
[{"ATTRIBUTE_NAME": "CUSTOMER_TYPE", "ATTRIBUTE_VALUE": "R"},
{"ATTRIBUTE_NAME": "SEGMENT_TYPE", "ATTRIBUTE_VALUE": "BEH"},
{"ATTRIBUTE_NAME": "V_PROD_CODE", "ATTRIBUTE_VALUE": "9035"},
{"ATTRIBUTE_NAME": "N_AGE", "ATTRIBUTE_VALUE": "25"},
{"ATTRIBUTE_NAME": "V_GENDER", "ATTRIBUTE_VALUE": "M"},
{"ATTRIBUTE_NAME": "V_MARITAL_STATUS", "ATTRIBUTE_VALUE": "MSG"},
{"ATTRIBUTE_NAME": "V_INDUSTRY", "ATTRIBUTE_VALUE": "HELCA"},
{"ATTRIBUTE_NAME": "V_COUNTRY", "ATTRIBUTE_VALUE": "IN"},
{"ATTRIBUTE_NAME": "N_INCOME", "ATTRIBUTE_VALUE": "500000"}], "EXEC_PARAMS": [{"PARAM_CODE": "AS_OF_DATE", "PARAM_VALUE": "20200331"}, {"PARAM_CODE": "RPT_CCY_CODE", "PARAM_VALUE": "USD"}]}
```

Response JSON Sample:

A sample Web Service response JSON file ([webservices_req_response.json](#)) is available for reference.