Oracle® FLEXCUBE Investor Servicing
REST API Services User Guide

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Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Conventions
- Screenshot Disclaimer
- Acronyms and Abbreviations

Purpose

This User Guide is intended to familiarize you with the light-weight REST based services of **Oracle Flexcube Investor Servicing**. The manual gives you an overview of the services developed, input\request parameters and the response of the each REST service.

Audience

The manual is intended for integrating external systems to Oracle FLEXCUBE Investor Servicing using RESTFUL framework.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

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 is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of the acronyms and abbreviations used are as follows:

Table 1   Acronyms and Abbreviations

Abbreviation	Description
FCIS	Oracle FLEXCUBE Investor Servicing
REST	Representational State Transfer
JWT	JSON Web Token

1

Rest API Services - Overview

This topic provides information on overview of Rest API Services.

This topic contains the following sub-topic:

- REST Services
  This topic provides information on Rest Services.

1.1 REST Services

This topic provides information on Rest Services.

Oracle FLEXCUBE Investor Servicing has adopted the industry standard of providing light-weight services through **Representational State Transfer (popularly known as REST)** Services.

These lightweight services support the current trend of mobile/tablet based applications. These services help to improve the response time for tablet/mobile applications, as these applications are very chatty, involves numerous hits to the server and the expected response time is minimal for each of the requests. The REST service requests can either use **GET** or **POST** methods.

The REST services using **GET** methods are listed as follows:

- Fetch Unitholder details by ID
- Fetch customer
- Fetch the transaction details
- Fetch Standing Instructions details
- Fetch Fund details
- Fetch Fund Price details
- Fetch Broker details

The following are the services using **POST** methods:

- Create Unitholder
- Create a Transaction
- Create a Standing Instruction
- Create a Policy

Each of the services listed above will be a URL. These URLs can be tested using any of the available browser plug-ins (For instance, Postman, RestEasy etc.) or these services can also be integrated with an API manager depending on its use. Below is the format of a Get unitholder service example which will take the unitholder ID as the input.

```
http://( IP) :( Port) /Unitholder/QueryUnitholder/unitholderid/
{unitholderid}
```

The input for the GET services is passed as a part of the URL and if more than one input needs to be passed they should be separated by a forward slash (/). Apart from passing the unitholder ID as a part of the URL, the services also expect a few header parameters to be passed to the service.

The following are the header parameters passed:

- userId : FLEXCUBE Investor Servicing login user ID

- password : Encrypted FLEXCUBE Investor Servicing password of the user

- branch : The branch to which the user belongs

- msgId : A alphanumeric input from the consumer

- source : Source of the request whether it is FCUBS or an external system

- Content-Type: This mentions the format of the input /output. Since we are using the JSON format we will give the content-type as application/json.

The following parameter are available in the Authorization tab:

- **Type**: Bearer Token

- **Token**: JSON Web Token

UserId, password and msgId are for authenticating the user accessing the service. More information on authentication can be found in Section 2.

For the POST services we need to provide data input in JSON format. An example of JSON input is shown below. The output of REST services will also be in JSON format.

- Rest Services Security/ Authentication Scheme
  This topic provides information on rest services security/ authentication scheme details.

- Rest HTTP Headers
  This topic provides information on Rest HTTP headers details.

1.1.1 Rest Services Security/ Authentication Scheme

This topic provides information on rest services security/ authentication scheme details.

Authentication in Restful Services is implemented using two ways as per maintained in the Source Maintenance screen:

- Oracle FLEXCUBE Investor Servicing SMS Authentication system

- JSON web token (JWT)

If the Authentication is implemented in FLEXCUBE authentication system the requests to the Restful services needs to contain the headers as follows:

- userId - Oracle FLEXCUBE Investor Servicing login user name

- password – Encrypted Oracle FLEXCUBE Investor Servicing login password

- msgId –This message ID will be a unique id to identify the request

The userId and password headers should contain the userId and password that is created in the **Oracle FLEXCUBE Investor Servicing** application.

The password field should be encrypted with the msgId as the key.

The Rest API application will decrypt the password and validate the same against the **Oracle FLEXCUBE Investor Servicing** SMS maintenance, and will service the request only if the validation succeeds.

If the Authentication is implemented through JSON web token (JWT) then the authorization tab must contain the

- **Type** : Bearer Token

- **Token** : JSON Web token which is generated with the algorithm (HSA,RSA and ECDSA)

The token will be generated by the external system using any one of the algorithm HSA, RSA or ECDSA with the claims. In FCIS system we will maintain the public key and the clock skew, shared by the external system in the database table **SSTB_AUTH_DETAILS** and the key value pair (claims) are maintained in the table **STB_JWT_PAYLOAD_DETAILS**. The JWT token sent by the external system is validated against the public key and the key value pair (claims) maintained in FCIS system.

1.1.2 Rest HTTP Headers

This topic provides information on Rest HTTP headers details.

The following are the headers that are expected in all the requests that are sent to the Rest API application:

- userId - Oracle FLEXCUBE Investor Servicing login user name

- password - Encrypted Oracle FLEXCUBE Investor Servicing login password

- msgId –This message id will be a unique id to identify the request

- branch - The branch code from where the request is sent

- source - The source code of the external system

2
Rest API Services – Details

This topic provides information on Oracle FLEXCUBE Investor Servicing Rest API Services.

This topic contains the following sub-topic:

- Oracle FLEXCUBE Investor Servicing Rest API Services
  This topic lists the available Oracle FLEXCUBE Investor Servicing Rest API Services.

2.1 Oracle FLEXCUBE Investor Servicing Rest API Services

This topic lists the available Oracle FLEXCUBE Investor Servicing Rest API Services.

Following are the list of **Oracle FLEXCUBE Investor Servicing** Rest API Services that are available:

Table 2-1 Rest API Services

Rest Service Name	Service Type	API URI
Account Type service	Get	https://(hostname):(Port)/AccountType/ QueryAccountType/accountt ype/{accounttype}/ effectivedate/{effectivedate}
Agency Branch Bank Service	Get	https://(hostname):(Port)/AgencyBranchBank/ QueryAgencyBranch Bank/moduleId/{moduleId}/ bankcode/{bankcode}/branchcode/{bran chcode}/ accountnumber/{accountnumber}
-	Post	https://(hostname):(Port)/AgencyBranchBank/ CreateAgencyBranch Bank
-	Post	https://(hostname):(Port)/AgencyBranchBank/ ModifyAgencyBranch Bank
-	Post	https://(hostname):(Port)/AgencyBranchBank/ AuthorizeAgencyBranchBank
-	Post	https://(hostname):(Port)/AgencyBranchBank/ DeleteAgencyBranch Bank
Amount Block Service	Get	https://(hostname):(Port)/AmountBlock/ QueryAmountBlock/blockun blockid/ {blockunblockid}/transactiondate/{transactiondate}
-	Post	https://(hostname):(Port)/AmountBlock/ AuthorizeAmountBlock
-	Post	https://(hostname):(Port)/AmountBlock/ DeleteAmountBlock
-	Post	https://(hostname):(Port)/AmountBlock/ ModifyAmountBlock
-	Post	https://(hostname):(Port)/AmountBlock/ CreateAmountBlock
Amount Unblock Service	Get	https://(hostname):(Port)/AmountUnblock/ QueryAmountUnblock/blo ckunblockid/ {blockunblockid}/txndate/{txndate}

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/AmountUnblock/AuthorizeAmountUnblock
-	Post	https://(hostname):(Port)/AmountUnblock/AuthorizeAmountUnblock
-	Post	https://(hostname):(Port)/AmountUnblock/ModifyAmountUnblock
-	Post	https://(hostname):(Port)/AmountUnblock/CreateAmountUnblock
AuthRep Service	Get	https://(hostname):(Port)/AuthRep/QueryAuthRep/authrepid/{authre pid}
-	Post	https://(hostname):(Port)/AuthRep/AuthorizeAuthRep
-	Post	https://(hostname):(Port)/AuthRep/ModifyAuthRep
-	Post	https://(hostname):(Port)/AuthRep/CreateAuthRep
-	Post	https://(hostname):(Port)/AuthRep/DeleteAuthRep
Block Service	Get	https://(hostname):(Port)/Block/QueryBlock/transactionnumber/{tran sactionnumber}
-	Post	https://(hostname):(Port)/Block/DeleteBlock
-	Post	https://(hostname):(Port)/Block/CreateBlock
-	Post	https://(hostname):(Port)/Block/ModifyBlock
-	Post	https://(hostname):(Port)/Block/AuthorizeBlock
Broker Client Relation Service	Get	https://(hostname):(Port)/BrokerClientRelation/QueryBrokerClientR elation/brokercode/{brokercode}
Broker Currency Service	Get	https://(hostname):(Port)/BrokerCurrency/QueryBrokerCcy/brokerco de/{brokercode}/effectivedate/{effectivedate}
-	Post	https://(hostname):(Port)/BrokerCurrency/CreateBrokerCcy
-	Post	https://(hostname):(Port)/BrokerCurrency/DeleteBrokerCcy
-	Post	https://(hostname):(Port)/BrokerCurrency/ModifyBrokerCcy
-	Post	https://(hostname):(Port)/BrokerCurrency/AuthorizeBrokerCcy
Broker IDS Service	Get	https://(hostname):(Port)/BrokerIDS/QueryBrokerIDS/entityid/{entity id}/entitytype/{entitytype}/fundid/{fundid}/paymentcurrency/{payment currency}
-	Post	https://(hostname):(Port)/BrokerIDS/CreateBrokerIDS
-	Post	https://(hostname):(Port)/BrokerIDS/CloseBrokerIDS
-	Post	https://(hostname):(Port)/BrokerIDS/ModifyBrokerIDS
-	Post	https://(hostname):(Port)/BrokerIDS/DeleteBrokerIDS

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Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/BrokerIDS/ReopenBrokerIDS
-	Post	https://(hostname):(Port)/BrokerIDS/AuthorizeBrokerIDS
Broker Service	Get	https://(hostname):(Port)/Broker/QueryBroker/brokercode/{brokerco de}/ruleeffectivedate/{ruleeffectivedate}
-	Post	https://(hostname):(Port)/Broker/AuthorizeBroker
-	Post	https://(hostname):(Port)/Broker/CreateBroker
-	Post	https://(hostname):(Port)/Broker/ModifyBroker
-	Post	https://(hostname):(Port)/Broker/DeleteBroker
-	Get	https://(hostname):(Port)/Broker/SummaryQueryBroker
CIF Address Service	Get	https://(hostname):(Port)/CIFAddress/QueryCIFAddress/cifnumber/{ cifnumber}/media/{media}/location/{location}
-	Post	https://(hostname):(Port)/CIFAddress/ModifyCIFAddress
-	Post	https://(hostname):(Port)/CIFAddress/CreateCIFAddress
-	Post	https://(hostname):(Port)/CIFAddress/DeleteCIFAddress
-	Post	https://(hostname):(Port)/CIFAddress/AuthorizeCIFAddress
CIF Fund Mapping Service	Get	https://(hostname):(Port)/CIFFundMapping/DeleteCIFFundMapping
-	Post	https://(hostname):(Port)/CIFFundMapping/DeleteCIFFundMapping
-	Post	https://(hostname):(Port)/CIFFundMapping/AuthorizeCIFFundMappi ng
-	Post	https://(hostname):(Port)/CIFFundMapping/ModifyCIFFundMapping
-	Post	https://(hostname):(Port)/CIFFundMapping/CreateCIFFundMapping
CIF UH Mapping Service	Get	https://(hostname):(Port)/CIFUHMapping/QueryCIFUHMapping/refe rencenumber/{referencenumber}
-	Post	https://(hostname):(Port)/CIFUHMapping/ModifyCIFUHMapping
-	Post	https://(hostname):(Port)/CIFUHMapping/CreateCIFUHMapping
-	Post	https://(hostname):(Port)/CIFUHMapping/AuthorizeCIFUHMapping
Customer Service	Get	https://(hostname):(Port)/Customer/QueryCustomer/customerNo/{c ustomerNo}
Fund Price Service	Post	https://(hostname):(Port)/FundPrice/ModifyFundPrice

Table 2-1 (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Get	https://(hostname):(Port)/FundPrice/ QueryFundPrice/fundid/{fundid} /effectivedate/ {effectivedate}
Help Desk Service	Get	https://(hostname):(Port)/HelpDesk/ QueryHelpDesk/helpdeskrefno/{ helpdeskrefno}
Holiday Service	Get	https://(hostname):(Port)/Holiday/QueryHoliday/ year/{year}/calenda rType/{calendarType}/entityid/ {entityid}
-	Post	https://(hostname):(Port)/Holiday/ModifyHoliday
HWM Service	Get	https://(hostname):(Port)/HWM/QueryHWM/fundid/ {fundid}/effective date/{effectivedate}
-	Post	https://(hostname):(Port)/HWM/AuthorizeHWM
-	Post	https://(hostname):(Port)/HWM/ModifyHWM
-	Post	https://(hostname):(Port)/HWM/CreateHWM
IPO Subscription Service	Get	https://(hostname):(Port)/IPOSubscription/ QueryIPOSubscription/tr ansactionnumber/ {transactionnumber}
-	Post	https://(hostname):(Port)/IPOSubscription/ QueryIPOSubscription/tr ansactionnumber/ {transactionnumber}
-	Post	https://(hostname):(Port)/IPOSubscription/ ModifyIPOSubscription
-	Post	https://(hostname):(Port)/IPOSubscription/ AuthorizeIPOSubscription
-	Post	https://(hostname):(Port)/IPOSubscription/ DeleteIPOSubscription
-	Post	https://(hostname):(Port)/IPOSubscription/ ReverseIPOSubscription
KYC Chasing Service	Get	https://(hostname):(Port)/KYCChasing/ QueryKYCChasingdetails/un itholderid/ {unitholderid}/chasinglogno/{chasinglogno}
-	Post	https://(hostname):(Port)/KYCChasing/ DeleteKYCChasingdetails
-	Post	https://(hostname):(Port)/KYCChasing/ AuthorizeKYCChasingdetails
-	Post	https://(hostname):(Port)/KYCChasing/ ModifyKYCChasingdetails
-	Post	https://(hostname):(Port)/KYCChasing/ CreateKYCChasingdetails
OLT Service	Get	https://(hostname):(Port)/OLT/QueryOLT/ referenceno/{referenceno}
-	Post	https://(hostname):(Port)/OLT/CloseOLT
-	Post	https://(hostname):(Port)/OLT/ModifyOLT
-	Post	https://(hostname):(Port)/OLT/AuthorizeOLT
-	Post	https://(hostname):(Port)/OLT/ReopenOLT
-	Post	https://(hostname):(Port)/OLT/DeleteOLT
-	Post	https://(hostname):(Port)/OLT/CreateOLT

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Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
Rates Service	Get	https://(hostname):(Port)/Rates/QueryRatesFCISRates/ratecode/{ra tecode}/currencycode/{currencycode}
-	Post	https://(hostname):(Port)/Rates/AuthorizeRatesFCISRates
-	Post	https://(hostname):(Port)/Rates/ModifyRatesFCISRates
-	Post	https://(hostname):(Port)/Rates/CreateRatesFCISRates
Redemption Service	Get	https://(hostname):(Port)/Redemption/QueryRedemption/transactio nnumber/{transactionnumber}
-	Post	https://(hostname):(Port)/Redemption/CreateRedemption
-	Post	https://(hostname):(Port)/Redemption/DeleteRedemption
-	Post	https://(hostname):(Port)/Redemption/ModifyRedemption
-	Post	https://(hostname):(Port)/Redemption/ReverseRedemption
-	Post	https://(hostname):(Port)/Redemption/AuthorizeRedemption
Standing Instruction Service	Post	https://(hostname):(Port)/StandingInstruction/CreateStandingInstruc tion
-	Post	https://(hostname):(Port)/StandingInstruction/ModifyStandingInstruc tion
-	Post	https://(hostname):(Port)/StandingInstruction/AuthorizeStandingInstruc tion
-	Post	https://(hostname):(Port)/StandingInstruction/DeleteStandingInstruc tion
-	Get	https://(hostname):(Port)/StandingInstruction/QueryStandingInstruct ion/siid/{siid}/sieffectivedate/{sieffectivedate}
Subscription Service	Post	https://(hostname):(Port)/Subscription/CreateSubscription
-	Post	https://(hostname):(Port)/Subscription/ModifySubscription
-	Post	https://(hostname):(Port)/Subscription/AuthorizeSubscription
-	Post	https://(hostname):(Port)/Subscription/DeleteSubscription
-	Post	https://(hostname):(Port)/Subscription/ReverseSubscription
-	Get	https://(hostname):(Port)/Subscription/QuerySubscription/transactio nnumber/{transactionnumber}
Switch Txn Service	Get	https://(hostname):(Port)/SwitchTxn/QuerySwitch/transactionnumbe r/{transactionnumber}

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/SwitchTxn/AuthorizeSwitch
-	Post	https://(hostname):(Port)/SwitchTxn/CreateSwitch
-	Post	https://(hostname):(Port)/SwitchTxn/DeleteSwitch
-	Post	https://(hostname):(Port)/SwitchTxn/ReverseSwitch
-	Post	https://(hostname):(Port)/SwitchTxn/ModifySwitch
Tax Compliance Document Service	Get	https://(hostname):(Port)/TaxComplianceDocument/QueryTaxComplianceDocument/taxcompliancetype/{taxcompliancetype}/fatcaentity type/{fatcaentitytype}/entitycategorytype/{entitycategorytype}/classif ication/{classification}
-	Post	https://(hostname):(Port)/TaxComplianceDocument/DeleteTaxComplianceDocument
-	Post	https://(hostname):(Port)/TaxComplianceDocument/AuthorizeTaxComplianceDocument
-	Post	https://(hostname):(Port)/TaxComplianceDocument/ModifyTaxComplianceDocument
-	Post	https://(hostname):(Port)/TaxComplianceDocument/CreateTaxComplianceDocument
Tax Compliance Setup Service	Get	https://(hostname):(Port)/TaxComplianceSetup/QueryTaxComplian ceSetup/taxcompliance/{taxcompliance}
-	Post	https://(hostname):(Port)/TaxComplianceSetup/CreateTaxComplian ceSetup
-	Post	https://(hostname):(Port)/TaxComplianceSetup/DeleteTaxComplian ceSetup
-	Post	https://(hostname):(Port)/TaxComplianceSetup/ModifyTaxComplian ceSetup
-	Post	https://(hostname):(Port)/TaxComplianceSetup/AuthorizeTaxComplian ceSetup
TPEntity Service	Get	https://(hostname):(Port)/TPEntity/QueryEntity/entityid/{entityid}/enti tytype/{entitytype
-	Post	https://(hostname):(Port)/TPEntity/CreateEntity
-	Post	https://(hostname):(Port)/TPEntity/ModifyEntity
-	Post	https://(hostname):(Port)/TPEntity/Delete Entity
-	Post	https://(hostname):(Port)/TPEntity/AuthorizeEntity
Transfer Service	Get	https://(hostname):(Port)/Transfer/QueryTransfer/transactionnumbe r/{transactionnumber}
-	Post	https://(hostname):(Port)/Transfer/AuthorizeTransfer
-	Post	https://(hostname):(Port)/Transfer/DeleteTransfer
-	Post	https://(hostname):(Port)/Transfer/CreateTransfer
-	Post	https://(hostname):(Port)/Transfer/ModifyTransfer

Table 2-1 (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/Transfer/ReverseTransfer
TxnLoad Override Service	Get	https://(hostname):(Port)/TxnLoadOverride/ QueryTxnLoadOverride/ transactionnumber/ {transactionnumber}
-	Post	https://(hostname):(Port)/TxnLoadOverride/ CreateTxnLoadOverride
-	Post	https://(hostname):(Port)/TxnLoadOverride/ AuthorizeTxnLoadOverride
-	Post	https://(hostname):(Port)/TxnLoadOverride/ DeleteTxnLoadOverride
UHClosure Service	Get	https://(hostname):(Port)/UHClosure/ QueryUHClosure/unitholderid/{ unitholderid}/ acstatusdate/{acstatusdate}/sequencenumber/ {sequen cenumber}
-	Post	https://(hostname):(Port)/UHClosure/ DeleteUHClosure
-	Post	https://(hostname):(Port)/UHClosure/ CreateUHClosure
-	Post	https://(hostname):(Port)/UHClosure/ AuthorizeUHClosure
UH Deal Service	Get	https://(hostname):(Port)/UHDeal/QueryUHDeal/ dealTransactionNu mber/{dealTransactionNumber}
-	Post	https://(hostname):(Port)/UHDeal/DeleteUHDeal
-	Post	https://(hostname):(Port)/UHDeal/AuthorizeUHDeal
-	Post	https://(hostname):(Port)/UHDeal/CreateUHDeal
-	Post	https://(hostname):(Port)/UHDeal/ModifyUHDeal
UHIDS Service	Get	https://(hostname):(Port)/UHIDS/QueryUHIDS/ idsentityid/{idsentityi d}/productid/{productid}/ policynumber/{policynumber}/fundid/{fundid }/ ruleeffectivedate/{ruleeffectivedate}
-	Post	https://(hostname):(Port)/UHIDS/DeleteUHIDS
-	Post	https://(hostname):(Port)/UHIDS/ModifyUHIDS
-	Post	https://(hostname):(Port)/UHIDS/CreateUHIDS
-	Post	https://(hostname):(Port)/UHIDS/AuthorizeUHIDS
UHIRRF Preference Service	Get	https://(hostname):(Port)/UHIRRFPreference/ QueryUHIRRFPrefere nce/unitholderid/ {unitholderid}/fundid/{fundid}
-	Post	https://(hostname):(Port)/UHIRRFPreference/ ModifyUHIRRFPrefer ence
-	Post	https://(hostname):(Port)/UHIRRFPreference/ CreateUHIRRFPrefer ence
-	Post	https://(hostname):(Port)/UHIRRFPreference/ DeleteUHIRRFPrefer ence
-	Post	https://(hostname):(Port)/UHIRRFPreference/ AuthorizeUHIRRFPrefer ence
Unblock Service	Get	https://(hostname):(Port)/Unblock/QueryUnblock/ transactionnumber /{transactionnumber}
-	Post	https://(hostname):(Port)/Unblock/ModifyUnblock

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/Unblock/CreateUnblock
-	Post	https://(hostname):(Port)/Unblock/AuthorizeUnblock
-	Post	https://(hostname):(Port)/Unblock/DeleteUnblock
Unitholder Service	Get	https://(hostname):(Port)/Unitholder/QueryUnitholder/unitholderid/{u nitholderid}
-	Post	https://(hostname):(Port)/Unitholder/CreateUnitholder
-	Post	https://(hostname):(Port)/Unitholder/DeleteeUnitholder
-	Post	https://(hostname):(Port)/Unitholder/ModifyUnitholder
-	Post	https://(hostname):(Port)/Unitholder/AuthorizeUnitholder
Fund Service	Get	https://(hostname):(Port)/Fund/QueryFund/fundid/{fundid}/ruleeffecti vedate/{ruleeffectivedate}
Policy Service	Get	https://(hostname):(Port)/Policy/CreatePolicy
-	Post	https://(hostname):(Port)/Policy/QueryPolicy/policynumber/{policynu mber}/ruleeffectivedate/{ruleeffectivedate}
-	Post	https://(hostname):(Port)/Policy/ModifyPolicy
-	Post	https://(hostname):(Port)/Policy/DeletePolicy
-	Post	https://(hostname):(Port)/Policy/AuthorizePolicy
Policy Cession Service	Get	https://(hostname):(Port)/PolicyCession/CreatePolicyCession
-	Post	https://(hostname):(Port)/PolicyCession/ModifyPolicyCession
-	Post	https://(hostname):(Port)/PolicyCession/AuthorizePolicyCession
-	Post	https://(hostname):(Port)/PolicyCession/QueryPolicyCession/policy number/{policynumber}/cessiondate/{cessiondate}
Policy Journal Service	Get	https://(hostname):(Port)/PolicyJournal/ModifyPolicyJournal
-	Post	https://(hostname):(Port)/PolicyJournal/AuthorizePolicyJournal
-	Post	https://(hostname):(Port)/PolicyJournal/CreatePolicyJournal
-	Post	https://(hostname):(Port)/PolicyJournal/DeletePolicyJournal
-	Post	https://(hostname):(Port)/PolicyJournal/QueryPolicyJournal/journalt xnnumber/{journaltxnnumber}
PolicyStatusC hangeService	Get	https://(hostname):(Port)/PolicyStatusChange/QueryPolicyStatusCh ange/policynumber/{policynumber}/ruleeffectivedate/{ruleeffectived ate}
-	Post	https://(hostname):(Port)/PolicyStatusChange/CreatePolicyStatusC hange

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/PolicyStatusChange/ModifyPolicyStatusC hange
-	Post	https://(hostname):(Port)/PolicyStatusChange/AuthorizePolicyStatusC hange
-	Post	https://(hostname):(Port)/PolicyStatusChange/DeletePolicyStatusC hange
Policy Switch Service	Post	https://(hostname):(Port)/PolicySwitch/QueryPolicySwitch/policytxn number/{policytxnnumber
-	Post	https://(hostname):(Port)/PolicySwitch/ReversePolicySwitch
-	Post	https://(hostname):(Port)/PolicySwitch/AuthorizePolicySwitch
-	Post	https://(hostname):(Port)/PolicySwitch/DeletePolicySwitch
-	Post	https://(hostname):(Port)/PolicySwitch/ModilyPolicySwitch
-	Get	https://(hostname):(Port)/PolicySwitch/CreatePolicySwitch
Surrender Service	Post	https://(hostname):(Port)/Surrender/QuerySurrender/policytxnnumb er/{policytxnnumber}
-	Post	https://(hostname):(Port)/Surrender/AuthorizeSurrender
-	Post	https://(hostname):(Port)/Surrender/CreateSurrender
-	Post	https://(hostname):(Port)/Surrender/ModifySurrender
-	Post	https://(hostname):(Port)/Surrender/DeleteSurrender
-	Post	https://(hostname):(Port)/Surrender/ReverseSurrender
Topup Service	Post	https://(hostname):(Port)/Topup/QueryTopup/policytxnnumber/{poli cytxnnumber}
-	Post	https://(hostname):(Port)/Topup/DeleteTopup
-	Get	https://(hostname):(Port)/Topup/CreateTopup
-	Post	https://(hostname):(Port)/Topup/AuthorizeTopup
PolicyTransaction Service	Post	https://(hostname):(Port)/Topup/ReverseTopup
-	Post	https://(hostname):(Port)/Topup/ModifyTopup
-	Post	https://(hostname):(Port)/PolicyTransaction/DeletePolicyTxn
-	Post	https://(hostname):(Port)/PolicyTransaction/ReversePolicyTxn
-	Post	https://(hostname):(Port)/PolicyTransaction/AuthorizePolicyTxn
Address Master Service	Post	https://(hostname):(Port)/AddressMaster/QueryAddressDetails/addr essrefno/{addressrefno}

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/AddressMaster/AuthorizeAddressDetails
-	Post	https://(hostname):(Port)/AddressMaster/modifyAddressDetails
-	Get	https://(hostname):(Port)/AddressMaster/CreateAddressDetails
-	Post	https://(hostname):(Port)/AddressMaster/DeeleteAddressDetails
Asset Class Service	Post	https://(hostname):(Port)AssetClass/QueryAssetClassDef/assetclas s/{assetclass}
Investment Account Status Service	Post	https://(hostname):(Port)/InvestmentAccountStatus/AuthorizeInvest mentAccountStatus
-	Post	https://(hostname):(Port)/InvestmentAccountStatus/ModifyInvest mentAccountStatus
-	Post	https://(hostname):(Port)/InvestmentAccountStatus/DeleteInvest mentAccountStatus
Party Service	Post	https://(hostname):(Port)/Party/QueryPARTY/partyid/{partyid}
-	Post	https://(hostname):(Port)/Party/ModifyPARTY
-	Post	https://(hostname):(Port)/Party/AuthorizePARTY
-	Post	https://(hostname):(Port)/Party/CreatePARTY
-	Get	https://(hostname):(Port)/Party/DeletePARTY
Party Role Service	Post	https://(hostname):(Port)/PartyRole/QueryPartyRole/partyrole/{party role}/partyid/{partyid}
-	Get	https://(hostname):(Port)/PartyRole/CreatePartyRole
-	Post	https://(hostname):(Port)/PartyRole/ModifyPartyRole
-	Post	https://(hostname):(Port)/PartyRole/DeletePartyRole
-	Post	https://(hostname):(Port)/PartyRole/AuthorizePartyRole
Portfolio Mapping Service	Post	https://(hostname):(Port)/PortfolioMapping/QueryPortfolioMapping/p artyrole/{partyrole}/partyid/{partyid}/accountid/{accountid}
-	Get	https://(hostname):(Port)/PortfolioMapping/CreatePortfolioMapping
-	Post	https://(hostname):(Port)/PortfolioMapping/ModifyPortfolioMapping
-	Post	https://(hostname):(Port)/PortfolioMapping/DeletePortfolioMapping
-	Post	https://(hostname):(Port)/PortfolioMapping/AuthorizePortfolioMappi ng
Bank Master Service	Post	https://(hostname):(Port)/BankMaster/QueryBankDetails/bankrefere nceno/{bankreferenceno}
-	Post	https://(hostname):(Port)/BankMaster/DeleteBankDetails

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/BankMaster/AuthorizeBankDetails
-	Post	https://(hostname):(Port)/BankMaster/createBankDetails
-	Get	https://(hostname):(Port)/BankMaster/ModifyBankDetails
ID Master Service	Post	https://(hostname):(Port)/IDMaster/DeleteIdDetails
-	Get	https://(hostname):(Port)/IDMaster/CreateIdDetails
-	Post	https://(hostname):(Port)/IDMaster/ModifyIdDetails
-	Post	https://(hostname):(Port)/IDMaster/QueryIdDetails/idreferenceno/{id referenceno}
-	Post	https://(hostname):(Port)/InvestmentAccount/AuthorizeInvestmentA ccount
Investment Account Service	Post	https://(hostname):(Port)/InvestmentAccount/ModifyInvestmentA ccount
-	Get	https://(hostname):(Port)/InvestmentAccount/CreateeInvestmentA ccount
-	Post	https://(hostname):(Port)/InvestmentAccount/DeleteeInvestmentA ccount
Investment Service	Post	https://(hostname):(Port)/Investment/QueryInvestmentDetails/order number/{ordernumber}
-	Get	https://(hostname):(Port)/Investment/CreateInvestmentDetails
-	Post	https://(hostname):(Port)/Investment/AuthorizeInvestmentDetails
-	Post	https://(hostname):(Port)/Investment/DeleteInvestmentDetails
-	Post	https://(hostname):(Port)/Investment/ReverseInvestmentDetails
Switch Order Service	Post	https://(hostname):(Port)/SwitchOrder/QuerySwitchOrder/ordernum ber/{ordernumber}
-	Post	https://(hostname):(Port)/SwitchOrder/DeleteSwitchOrder
-	Post	https://(hostname):(Port)/SwitchOrder/AuthorizeSwitchOrder
-	Post	https://(hostname):(Port)/SwitchOrder/ModifySwitchOrder
-	Post	https://(hostname):(Port)/SwitchOrder/CreateSwitchOrder
-	Get	https://(hostname):(Port)/SwitchOrder/ReverseSwitchOrder
Withdrawal Service	Post	https://(hostname):(Port)/Withdrawal/QueryWithdrawalDetails/order number/{ordernumber}
-	Post	https://(hostname):(Port)/Withdrawal/ModifyWithdrawalDetails
-	Post	https://(hostname):(Port)/Withdrawal/AuthorizeWithdrawalDetails

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/Withdrawal/DeleteWithdrawalDetails
-	Post	https://(hostname):(Port)/Withdrawal/CreateWithdrawalDetails
-	Get	https://(hostname):(Port)/Withdrawal/ReverseWithdrawalDetails
Instrument Service	Post	https://(hostname):(Port)/Instrument/QueryInstDefintion/instrumenti d/{instrumentid}/ruleeffectivedate/{ruleeffectivedate}
Portfolio Service	Post	https://(hostname):(Port)/Instrument/QueryInstDefintion/instrumenti d/{instrumentid}/ruleeffectivedate/{ruleeffectivedate}
-	Post	https://(hostname):(Port)/Portfolio/DeletePortfoliodefinition
-	Post	https://(hostname):(Port)/Portfolio/AuthorizePortfoliodefinition
-	Post	https://(hostname):(Port)/Portfolio/ModifyPortfoliodefinition
-	Get	https://(hostname):(Port)/Portfolio/CreatePortfoliodefinition
Portfolio Type Service	Post	https://(hostname):(Port)/PortfolioType/QueryPortfolioType/portfolio type/{portfoliotype}
Rule Service	Post	https://(hostname):(Port)/Rule/QueryRuledefinition/ruleid/{ruleid}
-	Post	https://(hostname):(Port)/Rule/DeleteRuledefinition
-	Post	https://(hostname):(Port)/Rule/ModifyRuledefinition
-	Get	https://(hostname):(Port)/Rule/AuthorizeRuledefinition
-	Get	https://(hostname):(Port)/Rule/CreateRuledefinition
Portfolio Charge Service	Post	https://(hostname):(Port)/portfoliocharge/Deleteportfoliocharge
-	Post	https://(hostname):(Port)/portfoliocharge/modifyportfoliocharge
-	Get	https://(hostname):(Port)/portfoliocharge/Queryportfoliocharge/portf olioid/{portfolioid}/chargetype/{chargetype}
-	Post	https://(hostname):(Port)/portfoliocharge/Authorizeportfoliocharge
-	Post	https://(hostname):(Port)/portfoliocharge/Createportfoliocharge
ChargeServic e	Post	https://(hostname):(Port)/charge/Createcharge
-	Post	https://(hostname):(Port)/charge/Authorizeecharge
-	Post	https://(hostname):(Port)/charge/Deleteecharge
-	Get	https://(hostname):(Port)/charge/Querycharge/chargeid/{chargeid}
-	Post	https://(hostname):(Port)/charge/Modifycharge
Portfolio Rebalance Service	Post	https://(hostname):(Port)/PortfolioRebal/DeletePortfolioRebal

Table 2-1   (Cont.) Rest API Services

Rest Service Name	Service Type	API URI
-	Post	https://(hostname):(Port)/PortfolioRebal/CreatePortfolioRebal
-	Get	https://(hostname):(Port)/PortfolioRebal/QueryPortfolioRebal/rebalr uleid/{rebalruleid}
-	Post	https://(hostname):(Port)/PortfolioRebal/ModifyPortfolioRebal
-	Post	https://(hostname):(Port)/PortfolioRebal/AuthorizePortfolioRebal
RebalanceRule Map Service	Post	https://(hostname):(Port)/RebalRulMap/DeleteRebalRulMap
-	Post	https://(hostname):(Port)/RebalRulMap/modifyRebalRulMap
-	Get	https://(hostname):(Port)/RebalRulMap/QueryRebalRulMap/rebalrul eid/{rebalruleid}
-	Post	https://(hostname):(Port)/RebalRulMap/AuthorizeRebalRulMap
-	Post	https://(hostname):(Port)/RebalRulMap/CreateeRebalRulMap
Adjustment Order Service	Post	https://(hostname):(Port)/AdjustmentOrder/ModifyAdjustmentOrder
-	Post	https://(hostname):(Port)/AdjustmentOrder/AuthorizeAdjustmentOrder
-	Post	https://(hostname):(Port)/AdjustmentOrder/DeleteAdjustmentOrder
-	Get	https://(hostname):(Port)/AdjustmentOrder/QueryAdjustmentOrder/ ordernumber/{ordernumber}
-	Post	https://(hostname):(Port)/AdjustmentOrder/CreateAdjustmentOrder

- **Rest Services Additional Information**
  This topic provides information on Rest services additional information details.

2.1.1 Rest Services Additional Information

This topic provides information on Rest services additional information details.

- Date Format YYYY-MM-DD

- Cannot pass NULL value in Get API URI

- Support for Rest Services are enhanced to all modules through ODT. In ODT at RAD level user can opt for which Rest services are required, ODT automatically generate rest artefacts for Function IDs opted. These Rest Services can be deployed into application.

List of services enabled:

The document attached will have the services introduced newly along the existing services.

Refer the webservice page Rest Services List for the list of Rest Services.

Rest Documentations

Refer to **Rest Documentaion.zip** to access swagger.json files for the ODT generated services. Replace "host":"null" with the I.P. address and port of the server where the REST service is deployed. This has to be done for all the swagger.json files.

If any service is getting updated or a new service is getting generated, then follow the below steps to generate swagger.json for those services:

- Generate service EAR file and deploy the service.
- Once the service is running, to obtain swagger.json, type service URL followed by swagger.json in the browser. E.g. `https://10.10.10.10:1010/unitholderService/swagger.json`

Refer the webservice page Rest Documentation for **Rest Documentaion.zip**.