REST API Services User Guide
Oracle FLEXCUBE Investor Servicing
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FINANCIAL SERVICES

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1. Preface

1.1 Introduction

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.

1.2 Audience

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

1.3 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.

1.4 Organization

The manual is organized into the following chapters

Chapter	Description
Chapter 1	*Preface* - Gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	*Rest API* - An Overview provides a snapshot of the features of the entire module.
Chapter 3	*Rest API Services –List of* APIs.

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2. Rest API Services - Overview

2.1 Introduction

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.

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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.

2.1.1 Rest Services Security/ Authentication Scheme

Authentication in Restful Services is implemented using two ways, the Oracle FLEXCUBE Investor Servicing SMS Authentication system and the JSON web token(JWT), maintained in the Source Maintenance screen.

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.

2.1.2 <u>Rest HTTP Headers</u>

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

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3. Rest API Services – Details

3.1 <u>Oracle FLEXCUBE Investor Servicing Rest API Services</u>

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

Rest Service Name	Service Type	API URI
AccountTypeService	Get	https://(hostname):(Port)/AccountType/QueryAccountType/accounttype/{accounttype}/effectivedate/{effectivedate}
AgencyBranchBankService	Get	https://(hostname):(Port)/AgencyBranchBank/QueryAgencyBranchBank/moduleId/{moduleId}/bankcode/{bankcode}/branchcode/{branchcode}/accountnumber/{accountnumber}
	Post	https://(hostname):(Port)/AgencyBranchBank/CreateAgencyBranchBank
	Post	https://(hostname):(Port)/AgencyBranchBank/ModifyAgencyBranchBank
	Post	https://(hostname):(Port)/AgencyBranchBank/AuthorizeAgencyBranchBank
	Post	https://(hostname):(Port)/AgencyBranchBank/DeleteAgencyBranchBank
AmountBlockService	Get	https://(hostname):(Port)/AmountBlock/QueryAmountBlock/blockunblockid/{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
AmountUnblockService	Get	https://(hostname):(Port)/AmountUnblock/QueryAmountUnblock/blockunblockid/{blockunblockid}/txndate/{txndate}

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Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/AmountUnblock/DeleteAmountUnblock
	Post	https://(hostname):(Port)/AmountUnblock/AuthorizeAmountUnblock
	Post	https://(hostname):(Port)/AmountUnblock/ModifyAmountUnblock
	Post	https://(hostname):(Port)/AmountUnblock/CreateAmountUnblock
AuthRepService	Get	https://(hostname):(Port)/AuthRep/QueryAuthRep/authrepid/{authrepid}
	Post	https://(hostname):(Port)/AuthRep/AuthorizeAuthRep
	Post	https://(hostname):(Port)/AuthRep/ModifyAuthRep
	Post	https://(hostname):(Port)/AuthRep/CreateAuthRep
	Post	https://(hostname):(Port)/AuthRep/DeleteAuthRep
BlockService	Get	https://(hostname):(Port)/Block/QueryBlock/transactionnumber/{transactionnumber}
	Post	https://(hostname):(Port)/Block/DeleteBlock
	Post	https://(hostname):(Port)/Block/CreateBlock
	Post	https://(hostname):(Port)/Block/ModifyBlock
	Post	https://(hostname):(Port)/Block/AuthorizeBlock
BrokerClientRelationService	Get	https://(hostname):(Port)/BrokerClientRelation/QueryBrokerClientRelation/brokercode/{brokercode}
BrokerCurrencyService	Get	https://(hostname):(Port)/BrokerCurrency/QueryBrokerCcy/brokercode/{brokercode}/effectivedate/{effectivedate}
	Post	https://(hostname):(Port)/BrokerCurrency/CreateBrokerCcy
	Post	https://(hostname):(Port)/BrokerCurrency/DeleteBrokerCcy

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Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/BrokerCurrency/ModifyBrokerCcy
	Post	https://(hostname):(Port)/BrokerCurrency/AuthorizeBrokerCcy
BrokerIDSService	Get	https://(hostname):(Port)/BrokerIDS/QueryBrokerIDS/entityid/{entityid}/entitytype/{entitytype}/fundid/{fundid}/paymentcurrency/{paymentcurrency}
	Post	https://(hostname):(Port)/BrokerIDS/CreateBrokerIDS
	Post	https://(hostname):(Port)/BrokerIDS/CloseBrokerIDS
	Post	https://(hostname):(Port)/BrokerIDS/ModifyBrokerIDS
	Post	https://(hostname):(Port)/BrokerIDS/DeleteBrokerIDS
	Post	https://(hostname):(Port)/BrokerIDS/ReopenBrokerIDS
	Post	https://(hostname):(Port)/BrokerIDS/AuthorizeBrokerIDS
BrokerService	Get	https://(hostname):(Port)/Broker/QueryBroker/brokercode/{brokercode}/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
CIFAddress 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

Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/CIFAddress/DeleteCIFAddress
	Post	https://(hostname):(Port)/CIFAddress/AuthorizeCIFAddress
CIFFundMappingService	Get	https://(hostname):(Port)/CIFFundMapping/QueryCIFFundMapping/cifnumber/{cifnumber}/location/{location}/media/{media}/fundid/{fundid}
	Post	https://(hostname):(Port)/CIFFundMapping/DeleteCIFFundMapping
	Post	https://(hostname):(Port)/CIFFundMapping/AuthorizeCIFFundMapping
	Post	https://(hostname):(Port)/CIFFundMapping/ModifyCIFFundMapping
	Post	https://(hostname):(Port)/CIFFundMapping/CreateCIFFundMapping
CIFUHMappingService	Get	https://(hostname):(Port)/CIFUHMapping/QueryCIFUHMapping/referencenumber/{referencenumber}
	Post	https://(hostname):(Port)/CIFUHMapping/ModifyCIFUHMapping
	Post	https://(hostname):(Port)/CIFUHMapping/CreateCIFUHMapping
	Post	https://(hostname):(Port)/CIFUHMapping/AuthorizeCIFUHMapping
CustomerService	Get	https://(hostname):(Port)/Customer/QueryCustomer/customerNo/{customerNo}
FundPriceService	Post	https://(hostname):(Port)/FundPrice/ModifyFundPrice
	Get	https://(hostname):(Port)/FundPrice/QueryFundPrice/fundid/{fundid}/effectivedate/{effectivedate}
HelpDeskService	Get	https://(hostname):(Port)/HelpDesk/QueryHelpDesk/helpdeskrefno/{helpdeskrefno}

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Rest Service Name	Service Type	API URI
HolidayService	Get	https://(hostname):(Port)/Holiday/QueryHoliday/year/{year}/calendarType/{calendarType}/entityid/{entityid}
	Post	https://(hostname):(Port)/Holiday/ModifyHoliday
HWMService	Get	https://(hostname):(Port)/HWM/QueryHWM/fundid/{fundid}/effectivedate/{effectivedate}
	Post	https://(hostname):(Port)/HWM/AuthorizeHWM
	Post	https://(hostname):(Port)/HWM/ModifyHWM
	Post	https://(hostname):(Port)/HWM/CreateHWM
IPOSubscriptionService	Get	https://(hostname):(Port)/IPOSubscription/QueryIPOSubscription/transactionnumber/{transactionnumber}
	Post	https://(hostname):(Port)/IPOSubscription/CreateIPOSubscription
	Post	https://(hostname):(Port)/IPOSubscription/ModifyIPOSubscription
	Post	https://(hostname):(Port)/IPOSubscription/AuthorizeIPOSubscription
	Post	https://(hostname):(Port)/IPOSubscription/DeleteIPOSubscription
	Post	https://(hostname):(Port)/IPOSubscription/ReverseIPOSubscription
KYCChasingService	Get	https://(hostname):(Port)/KYCChasing/QueryKYCChasingdetails/unitholderid/{unitholderid}/chasinglogno/{chasinglogno}
	Post	https://(hostname):(Port)/KYCChasing/DeleteKYCChasingdetails
	Post	https://(hostname):(Port)/KYCChasing/AuthorizeKYCChasingdetails
	Post	https://(hostname):(Port)/KYCChasing/ModifyKYCChasingdetails

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Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/KYCChasing/CreateKYCChasingdetails
OLTService	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
RatesService	Get	https://(hostname):(Port)/Rates/QueryRatesFCISRates/ratecode/{ratecode}/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/transactionnumber/{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

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Rest Service Name	Service Type	API URI
StandingInstructionService	Post	https://(hostname):(Port)/StandingInstruction/CreateStandingInstruction
	Post	https://(hostname):(Port)/StandingInstruction/ModifyStandingInstruction
	Post	https://(hostname):(Port)/StandingInstruction/AuthorizeStandingInstruction
	Post	https://(hostname):(Port)/StandingInstruction/DeleteStandingInstruction
	Get	https://(hostname):(Port)/StandingInstruction/QueryStandingInstruction/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/transactionnumber/{transactionnumber}
SwitchTxnService	Get	https://(hostname):(Port)/SwitchTxn/QuerySwitch/transactionnumber/{transactionnumber}
	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

Rest Service Name	Service Type	API URI
TaxComplianceDocumentService	Get	https://(hostname):(Port)/TaxComplianceDocument/QueryTaxComplianceDocument/taxcompliancetype/{taxcompliancetype}/fatcaentitytype/{fatcaentitytype}/entitycategorytype/{entitycategorytype}/classification/{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
TaxComplianceSetupService	Get	https://(hostname):(Port)/TaxComplianceSetup/QueryTaxComplianceSetup/taxcompliance/{taxcompliance}
	Post	https://(hostname):(Port)/TaxComplianceSetup/CreateTaxComplianceSetup
	Post	https://(hostname):(Port)/TaxComplianceSetup/DeleteTaxComplianceSetup
	Post	https://(hostname):(Port)/TaxComplianceSetup/ModifyTaxComplianceSetup
	Post	https://(hostname):(Port)/TaxComplianceSetup/AuthorizeTaxComplianceSetup
TPEntityService	Get	https://(hostname):(Port)/TPEntity/QueryEntity/entityid/{entityid}/entitytype/{entitytype}
	Post	https://(hostname):(Port)/TPEntity/CreateEntity
	Post	https://(hostname):(Port)/TPEntity/ModifyEntity
	Post	https://(hostname):(Port)/TPEntity/DeleteEntity
	Post	https://(hostname):(Port)/TPEntity/AuthorizeEntity
TransferService	Get	https://(hostname):(Port)/Transfer/QueryTransfer/transactionnumber/{transactionnumber}

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Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/Transfer/AuthorizeTransfer
	Post	https://(hostname):(Port)/Transfer/DeleteTransfer
	Post	https://(hostname):(Port)/Transfer/CreateTransfer
	Post	https://(hostname):(Port)/Transfer/ModifyTransfer
	Post	https://(hostname):(Port)/Transfer/ReverseTransfer
TxnLoadOverrideService	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
UHClosureService	Get	https://(hostname):(Port)/UHClosure/QueryUHClosure/unitholderid/{unitholderid}/acstatusdate/{acstatusdate}/sequencenumber/{sequencenumber}
	Post	https://(hostname):(Port)/UHClosure/DeleteUHClosure
	Post	https://(hostname):(Port)/UHClosure/CreateUHClosure
	Post	https://(hostname):(Port)/UHClosure/AuthorizeUHClosure
UHDealService	Get	https://(hostname):(Port)/UHDeal/QueryUHDeal/dealTransactionNumber/{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

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Rest Service Name	Service Type	API URI
UHIDSService	Get	https://(hostname):(Port)/UHIDS/QueryUHIDS/idsentityid/{idsentityid}/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
UHIRRFPreferenceService	Get	https://(hostname):(Port)/UHIRRFPreference/QueryUHIRRFPreference/unitholderid/{unitholderid}/fundid/{fundid}
	Post	https://(hostname):(Port)/UHIRRFPreference/ModifyUHIRRFPreference
	Post	https://(hostname):(Port)/UHIRRFPreference/CreateUHIRRFPreference
	Post	https://(hostname):(Port)/UHIRRFPreference/DeleteUHIRRFPreference
	Post	https://(hostname):(Port)/UHIRRFPreference/AuthorizeUHIRRFPreference
UnblockService	Get	https://(hostname):(Port)/Unblock/QueryUnblock/transactionnumber/{transactionnumber}
	Post	https://(hostname):(Port)/Unblock/ModifyUnblock
	Post	https://(hostname):(Port)/Unblock/CreateUnblock
	Post	https://(hostname):(Port)/Unblock/AuthorizeUnblock
	Post	https://(hostname):(Port)/Unblock/DeleteUnblock
UnitholderService	Get	https://(hostname):(Port)/Unitholder/QueryUnitholder/unitholderid/{unitholderid}
	Post	https://(hostname):(Port)/Unitholder/CreateUnitholder
	Post	https://(hostname):(Port)/Unitholder/DeleteUnitholder

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Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/Unitholder/ModifyUnitholder
	Post	https://(hostname):(Port)/Unitholder/AuthorizeUnitholder
FundService	Get	https://(hostname):(Port)/Fund/QueryFund/fundid/{fundid}/ruleeffectivedate/{ruleeffectivedate}
PolicyService	Get	https://(hostname):(Port)/Policy/CreatePolicy
	Post	https://(hostname):(Port)/Policy/QueryPolicy/policynumber/{policynumber}/ruleeffectivedate/{ruleeffectivedate}
	Post	https://(hostname):(Port)/Policy/ModifyPolicy
	Post	https://(hostname):(Port)/Policy/DeletePolicy
	Post	https://(hostname):(Port)/Policy/AuthorizePolicy
PolicyCessionService	Get	https://(hostname):(Port)/PolicyCession/CreatePolicyCession
	Post	https://(hostname):(Port)/PolicyCession/ModifyPolicyCession
	Post	https://(hostname):(Port)/PolicyCession/AuthorizePolicyCession
	Post	https://(hostname):(Port)/PolicyCession/QueryPolicyCession/policynumber/{policynumber}/cessiondate/{cessiondate}
PolicyJournalService	Get	https://(hostname):(Port)/PolicyJournal/CreatePolicyJournal
	Post	https://(hostname):(Port)/PolicyJournal/ModifyPolicyJournal
	Post	https://(hostname):(Port)/PolicyJournal/AuthorizePolicyJournal
	Post	https://(hostname):(Port)/PolicyJournal/DeletePolicyJournal
	Post	https://(hostname):(Port)/PolicyJournal/QueryPolicyJournal/journaltxnnumber/{journaltxnnumber}

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Rest Service Name	Service Type	API URI
PolicyStatus ChangeService	Get	https://(hostname):(Port)/PolicyStatusChange/QueryPolicyStatusChange/policynumber/{policynumber}/ruleeffectivedate/{ruleeffectivedate}
	Post	https://(hostname):(Port)/PolicyStatusChange/CreatePolicyStatusChange
	Post	https://(hostname):(Port)/PolicyStatusChange/ModifyPolicyStatusChange
	Post	https://(hostname):(Port)/PolicyStatusChange/AuthorizePolicyStatusChange
	Post	https://(hostname):(Port)/PolicyStatusChange/DeletePolicyStatusChange
PolicySwitch Service	Post	https://(hostname):(Port)/PolicySwitch/QueryPolicySwitch/policytxnnumber/{policytxnnumber}
	Post	https://(hostname):(Port)/PolicySwitch/ReversePolicySwitch
	Post	https://(hostname):(Port)/PolicySwitch/AuthorizePolicySwitch
	Post	https://(hostname):(Port)/PolicySwitch/DeletePolicySwitch
	Post	https://(hostname):(Port)/PolicySwitch/ModifyPolicySwitch
	Get	https://(hostname):(Port)/PolicySwitch/CreatePolicySwitch
SurrenderService	Post	https://(hostname):(Port)/Surrender/QuerySurrender/policytxnnumber/{policytxnnumber}
	Post	https://(hostname):(Port)/Surrender/AuthorizeSurrender
	Post	https://(hostname):(Port)/Surrender/ReverseSurrender
	Post	https://(hostname):(Port)/Surrender/CreateSurrender
	Post	https://(hostname):(Port)/Surrender/DeleteSurrender
	Post	https://(hostname):(Port)/Surrender/ModifySurrender

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Rest Service Name	Service Type	API URI
TopupService	Post	https://(hostname):(Port)/Topup/QueryTopup/policytxnnumber/{policytxnnumber}
	Post	https://(hostname):(Port)/Topup/DeleteTopup
	Get	https://(hostname):(Port)/Topup/CreateTopup
	Post	https://(hostname):(Port)/Topup/AuthorizeTopup
	Post	https://(hostname):(Port)/Topup/ReverseTopup
	Post	https://(hostname):(Port)/Topup/ModifyTopup
PolicyTransactionService	Post	https://(hostname):(Port)/PolicyTransaction/DeletePolicyTxn
	Post	https://(hostname):(Port)/PolicyTransaction/ReversePolicyTxn
	Post	https://(hostname):(Port)/PolicyTransaction/AuthorizePolicyTxn
AddressMasterService	Post	https://(hostname):(Port)/AddressMaster/QueryAddressDetails/addressrefno/{addressrefno}
	Post	https://(hostname):(Port)/AddressMaster/AuthorizeAddressDetails
	Post	https://(hostname):(Port)/AddressMaster/ModifyAddressDetails
	Get	https://(hostname):(Port)/AddressMaster/CreateAddressDetails
	Post	https://(hostname):(Port)/AddressMaster/DeleteAddressDetails
AssetClassService	Post	https://(hostname):(Port)AssetClass/QueryAssetClassDef/assetclass/{assetclass}
InvestmentAccountStatusService	Post	https://(hostname):(Port)/InvestmentAccountStatus/AuthorizeInvestmentAccountStatus
	Post	https://(hostname):(Port)/InvestmentAccountStatus/ModifyInvestmentAccountStatus

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Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/InvestmentAccountStatus/DeleteInvestmentAccountStatus
PartyService	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/DeletePARTY
	Get	https://(hostname):(Port)/Party/CreatePARTY
PartyRoleService	Post	https://(hostname):(Port)/PartyRole/QueryPartyRole/partyrole/{partyrole}/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
PortfolioMappingService	Post	https://(hostname):(Port)/PortfolioMapping/QueryPortfolioMapping/partyrole/{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/AuthorizePortfolioMapping
BankMaster Service	Post	https://(hostname):(Port)/BankMaster/QueryBankDetails/bankreferenceno/{bankreferenceno}

Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/BankMaster/DeleteBankDetails
	Post	https://(hostname):(Port)/BankMaster/AuthorizeBankDetails
	Post	https://(hostname):(Port)/BankMaster/ModifyBankDetails
	Get	https://(hostname):(Port)/BankMaster/CreateBankDetails
IDMasterService	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/{idreferenceno}
	Post	https://(hostname):(Port)/IDMaster/AuthorizeIdDetails
InvestmentAccountService	Post	https://(hostname):(Port)/InvestmentAccount/QueryInvestmentAccount/accountid/{accountid}
	Post	https://(hostname):(Port)/InvestmentAccount/AuthorizeInvestmentAccount
	Post	https://(hostname):(Port)/InvestmentAccount/ModifyInvestmentAccount
	Get	https://(hostname):(Port)/InvestmentAccount/CreateInvestmentAccount
	Post	https://(hostname):(Port)/InvestmentAccount/DeleteInvestmentAccount
InvestmentService	Post	https://(hostname):(Port)/Investment/QueryInvestmentDetails/ordernumber/{ordernumber}
	Get	https://(hostname):(Port)/Investment/CreateInvestmentDetails

Rest Service Name	Service Type	API URI
	Post	https://(hostname):(Port)/Investment/AuthorizeInvestmentDetails
	Post	https://(hostname):(Port)/Investment/DeleteInvestmentDetails
	Post	https://(hostname):(Port)/Investment/ReverseInvestmentDetails
SwitchOrder Service	Post	https://(hostname):(Port)/SwitchOrder/QuerySwitchOrder/ordernumber/{ordernumber}
	Post	https://(hostname):(Port)/SwitchOrder/DeleteSwitchOrder
	Post	https://(hostname):(Port)/SwitchOrder/ModifySwitchOrder
	Post	https://(hostname):(Port)/SwitchOrder/AuthorizeSwitchOrder
	Post	https://(hostname):(Port)/SwitchOrder/ReverseSwitchOrder
	Get	https://(hostname):(Port)/SwitchOrder/CreateSwitchOrder
WithdrawalService	Post	https://(hostname):(Port)/Withdrawal/QueryWithdrawalDetails/ordernumber/{ordernumber}
	Post	https://(hostname):(Port)/Withdrawal/ModifyWithdrawalDetails
	Post	https://(hostname):(Port)/Withdrawal/AuthorizeWithdrawalDetails
	Post	https://(hostname):(Port)/Withdrawal/DeleteWithdrawalDetails
	Post	https://(hostname):(Port)/Withdrawal/ReverseWithdrawalDetails
	Get	https://(hostname):(Port)/Withdrawal/CreateWithdrawalDetails
InstrumentService	Post	https://(hostname):(Port)/Instrument/QueryInstDefintion/instrumentid/{instrumentid}/ruleeffectivedate/{ruleeffectivedate}

Rest Service Name	Service Type	API URI
PortfolioService	Post	https://(hostname):(Port)/Portfolio/QueryPortfoliodefinition/portfolioid/{portfolioid}
	Post	https://(hostname):(Port)/Portfolio/DeletePortfoliodefinition
	Post	https://(hostname):(Port)/Portfolio/AuthorizePortfoliodefinition
	Post	https://(hostname):(Port)/Portfolio/ModifyPortfoliodefinition
	Get	https://(hostname):(Port)/Portfolio/CreatePortfoliodefinition
PortfolioTypeService	Post	https://(hostname):(Port)/PortfolioType/QueryPortfolioType/portfoliotype/{portfoliotype}
RuleService	Post	https://(hostname):(Port)/Rule/QueryRuledefinition/ruleid/{ruleid}
	Post	https://(hostname):(Port)/Rule/DeleteRuledefinition
	Post	https://(hostname):(Port)/Rule/AuthorizeRuledefinition
	Post	https://(hostname):(Port)/Rule/ModifyRuledefinition
	Get	https://(hostname):(Port)/Rule/CreateRuledefinition
	Get	https://(hostname):(Port)/Rule/CreateRuledefinition
PortfolioChargeService	Post	https://(hostname):(Port)/portfoliocharge/Deleteportfoliocharge
	Post	https://(hostname):(Port)/portfoliocharge/Modifyportfoliocharge
	Get	https://(hostname):(Port)/portfoliocharge/Queryportfoliocharge/portfolioid/{portfolioid}/chargetype/{chargetype}
	Post	https://(hostname):(Port)/portfoliocharge/Authorizeportfoliocharge
	Post	https://(hostname):(Port)/portfoliocharge/Createportfoliocharge

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Rest Service Name	Service Type	API URI
ChargeService	Post	https://(hostname):(Port)/charge/Createcharge
	Post	https:///(hostname):(Port)/charge/Authorizecharge
	Post	https:///(hostname):(Port)/charge/Deletecharge
	Get	https:///(hostname):(Port)/charge/Querycharge/chargeid/{chargeid}
	Post	https:///(hostname):(Port)/charge/Modifycharge
PortfolioRebalanceService	Post	https:///(hostname):(Port)/PortfolioRebal/DeletePortfolioRebal
	Post	https:///(hostname):(Port)/PortfolioRebal/CreatePortfolioRebal
	Get	https:///(hostname):(Port)/PortfolioRebal/QueryPortfolioRebal/rebalruleid/{rebalruleid}
	Post	https:///(hostname):(Port)/PortfolioRebal/ModifyPortfolioRebal
	Post	https:///(hostname):(Port)/PortfolioRebal/AuthorizePortfolioRebal
RebalanceRuleMapService	Post	https:///(hostname):(Port)/RebalRulMap/DeleteRebalRulMap
	Post	https:///(hostname):(Port)PASRebalRulMap/ModifyRebalRulMap
	Get	https:///(hostname):(Port)/RebalRulMap/QueryRebalRulMap/rebalruleid/{rebalruleid}
	Post	https:///(hostname):(Port)/RebalRulMap/AuthorizeRebalRulMap
	Post	https:///(hostname):(Port)/RebalRulMap/CreateRebalRulMap
AdjustmentOrderService	Post	https:///(hostname):(Port)/AdjustmentOrder/ModifyAdjustmentOrder

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Rest Service Name	Service Type	API URI
	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

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3.1.1 <u>Rest Services Additional Information</u>

- 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 https://docs.oracle.com/cd/F75930_01/webservice.htm for Rest Services List.xlsx.

Rest Documentations

Please 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 https://docs.oracle.com/cd/F75930_01/webservice.htm for Rest Documentaion.zip.

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