

Origination REST Web Services User Guide

Oracle Financial Services

Lending and Leasing

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Origination REST Web Services User Guide
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Table of Contents

- 1. ORIGINATION REST WEB SERVICES..... 1-1**
 - 1.1 LIST OF ORIGINATION REST WEB SERVICES 1-1
 - 1.2 DETAILS OF WEB SERVICES WITH INPUT ATTRIBUTE PARAMETERS 1-1
 - 1.2.1 *Application Entry*..... 1-1
 - 1.2.2 *Create Scenario Analysis*..... 1-20
 - 1.2.3 *Scenario Analysis Enquiry*..... 1-26
 - 1.2.4 *Application Search Service*..... 1-27
 - 1.2.5 *Calculator Service* 1-28

- 2. APPENDIX: REVISION HISTORY 2-1**
 - 2.1.1 *Changes for web services Patch released*..... 2-1

1. Origination REST Web Services

The following sections of the document outline the various 'Origination' related REST web services available in Oracle Financial Services Lending and Leasing.

This document is organized in the following way:

- List of Origination REST Web Services
- Details of Web Services with Input Attribute Parameters

Before you begin,

- You can access the following link which consists of a zip file with sample Request and Response xmls / jsons for each web service listed below.
https://docs.oracle.com/cd/E82458_01/pdf/webservices/WebServicesDocuments.zip
- For all the services except 'GET' services, 'USE_CONTAINER_AUTH' should be passed in Header with values either 'Y/N' (without quote).
 - If 'USE_CONTAINER_AUTH' is Y, then username taken from authenticated weblogic credentials.
 - If 'USE_CONTAINER_AUTH' is N, then username has to be passed through the service request.

1.1 List of Origination REST Web Services

Following are the available Origination related REST web services:

- [Application Entry](#)
- [Create Scenario Analysis](#)
- [Scenario Analysis Enquiry](#)
- [Application Search Service](#)
- [Calculator Service](#)

1.2 Details of Web Services with Input Attribute Parameters

1.2.1 Application Entry

Note: This web service is supported only for Loan product.

Service Name	Service Description	Service URL	Service Method	Sample URL
Application Entry	This service can be used by third party users/customers for creating an application in OFSLL.	https://<Host>:<Port>/<Deployment Context>/origination/application-entry	POST	http://<Host>:<Port>/OfsllRestWS/service/api/resources/origination/application-entry

Details of Application Entry Service

Purpose of service	To create application by third party users in OFSLL.
Input Schema	ofsll_application_entry.xsd
Input Type	application/json or application/xml.
Return Type	application/json or application/xml.
Exception	java.lang.Exception(Refer Errors/Exceptions section for more details)
Service Method	appEntry(@HeaderParam("USE_CONTAINER_AUTH") String usecontainerAuth, AppEntryType appEntryData)

Input Attribute Parameters

Request Parameter	Value	Optional / Required	Data Type	Comments
DealerApplicationNumber		Optional	String	
Date		Optional	Date	Max Length 30
PriorityCode		Optional	String	Max Length 30
JointInd	Y/N	Optional	NMTOKEN	
CosignedInd	Y/N	Optional	NMTOKEN	
Purpose		Required	String	Max Length 30
Contact		Required	String	Max Length 30
Source		Required	Date	Max Length 30
Product		Required	String	
LenderId		Optional	String	Max Length 30
DealerId		Required	String	Max Length 30
Optout	Y/N	Optional	NMTOKEN	
LenderDealerId		Optional	String	Max Length 30
PaymentCall		Optional	String	
ApplicationType		Optional	String	Max Length 30
Uniqueld		Optional	String	
SalesLeadNumber		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
CompanyCode		Optional	String	Max Length 30
BranchCode		Optional	String	Max Length 30
UserName		Optional	String	Max Length 30
ClassTypeCode		Optional	String	Max Length 30
RequestedTerm		Optional	Int	
RequestedRate		Optional	Double	
DownPaymentPercent		Optional	Double	
DownPaymentAmount		Optional	Double	
CashPrice		Optional	String	
RequestedPromotionCode		Optional	String	Max Length 30
SalesTax		Optional	Double	
RequestedFinancedAmount		Required	Double	
RequestedPaymentAmount		Required	Double	Max Length 30
LoanCurrencyCode		Optional	String	Max Length 30
RepaymentCurrencyCode		Optional	String	Max Length 30
CompanyCurrencyCode		Optional	String	Max Length 30
RelationType		Required	String	Max Length 30
PermitToStay		Required	String	Max Length 30
FirstName		Required	String	Max Length 30
MiddleName		Optional	String	Max Length 30
LastName		Required	String	Max Length 30
GenerationCode		Optional	String	Max Length 30
SSN		Required	positiveInteger	
BirthDate		Required	DateTime	

Request Parameter	Value	Optional / Required	Data Type	Comments
DisabilityInd	Y/N	Required	NMTOKEN	
PriorBankruptcyInd	Y/N	Optional	NMTOKEN	
PriorBankruptcyDischarge Date		Required	DateTime	
GenderCode	MALE/ EMALE/ UNDEFI NED/ OTHERS	Optional	NMTOKEN	
LanguageCode		Required	String	Max Length 30
DrivingLicenseNumber		Optional	String	Max Length 30
DrivingLicenseStateCode		Required	String	Max Length 30
EmailAddress		Required	String	Max Length 30
ClassType		Optional	String	Max Length 30
MaritalStatus		Optional	String	Max Length 30
NumberOfDependents		Optional	Int	Max Length 30
MotherMaidenName		Required	String	Max Length 30
RaceNationalOriginCode		Required	String	Max Length 30
EthnicCode		Optional	String	Max Length 30
SalutationCode		Optional	String	Max Length 30
Initials		Optional	String	Max Length 30
MaidenMIName		Required	String	Max Length 30
MaidenName		Optional	String	Max Length 30
SpecialityType		Optional	String	Max Length 30
PrivacyOptOutInd	Y/N	Optional	NMTOKEN	
Uniqueld		Required	String	Max Length 30
PassportNumber		Optional	String	Max Length 30
PassportIssueDate		Optional	DateTime	

Request Parameter	Value	Optional / Required	Data Type	Comments
PassportExpiryDate		Optional	DateTime	
PassportIssuingCountry		Optional	String	Max Length 30
NationalityCode		Optional	String	Max Length 30
KycRefNbr		Optional	PositiveInteger	
KycStatus		Optional	String	Max Length 30
BirthPlace		Optional	String	Max Length 30
BirthCountryCd		Optional	String	Max Length 30
UsResInd		Optional	String	Max Length 30
CustomerCategoryCd		Optional	String	Max Length 30
CreditBureauECOACode		Required	String	Max Length 30
Type		Required	String	Max Length 30
MailingInd	Y/N	Required	NMTOKEN	
CurrentInd	Y/N	Required	NMTOKEN	
PostalType		Required	String	Max Length 30
Number		Required	String	Max Length 30
StreetPreType		Optional	String	Max Length 30
StreetPostType		Required	String	Max Length 30
StreetName		Optional	String	Max Length 30
StreetType		Required	String	Max Length 30
SuiteNumber		Optional	String	Max Length 30
Zip		Required	String	Max Length 30
City		Required	String	Max Length 30
State		Required	String	Max Length 30
ZipExtension		Required	String	Max Length 30
Country		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
Phone		Required	String	Max Length 30
Ownership		Optional	String	Max Length 30
Years		Required	String	Max Length 30
Months		Optional	String	Max Length 30
Amount		Required	Double	
Frequency		Optional	String	Max Length 30
Landlord		Optional	String	Max Length 30
LandlordPhone		Required	Long	
LandlordPhoneIsdCd		Optional	Integer	0-999
Block		Required	String	Max Length 30
Location		Required	String	Max Length 30
Comment		Required	String	Max Length 30
Address1		Required	String	Max Length 30
Address2		Required	String	Max Length 30
Uniqueld		Optional	String	Max Length 30
CurrencyCode		Optional	String	Max Length 30
CurrencyAmount		Optional	Double	
ActualYears		Required	String	Max Length 30
ActualMonths		Optional	Int	
ActualAmount		Optional	Double	
ActualFrequency		Optional	String	Max Length 30
CURStatedAmt		Optional	Double	
CURActualAmt		Optional	Double	
Address3		Optional	String	Max Length 30
CURStatedMonthlyAmt		Optional	Double	

Request Parameter	Value	Optional / Required	Data Type	Comments
CURActualMonthlyAmt		Optional	Double	
PhoneIsdCd		Optional	Int	0-999
ContactPhoneIsdCd		Optional	Int	0-999
CurrentInd		Required	NMTOKEN	
Status		Required	String	Max Length 30
Type		Optional	String	Max Length 30
Name		Required	String	Max Length 30
AddressNumber		Optional	String	Max Length 30
Zip		Required	String	Max Length 30
Address1		Required	String	Max Length 30
Address2		Required	String	Max Length 30
City		Optional	String	Max Length 30
State		Required	String	Max Length 30
ZipExtension		Optional	Integer	0-999
Country		Optional	String	Max Length 30
OccupationCode		Optional	String	Max Length 30
Title		Optional	String	Max Length 30
Phone		Required	long	Max Length 30
PhoneExtension		Required	Int	
PhoneIsdCd		Optional	Integer	0-999
Years		Required	Int	
Months		Optional	Int	
Amount		Required	PositiveInteger	
Frequency		Required	String	Max Length 30
Comment		Required	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
CurrencyCode		Optional	String	Max Length 30
CurrencyAmount		Optional	PositiveInteger	
ActualYears		Optional	Int	
ActualMonths		Optional	Int	
ActualAmount		Optional	PositiveInteger	
ActualFrequency		Optional	String	Max Length 30
CURStatedAmt		Required	PositiveInteger	
CURActualAmt		Optional	PositiveInteger	
CURStatedMonthlyAmt		Optional	PositiveInteger	
CURActualMonthlyAmt		Optional	PositiveInteger	
ContactPhoneIscdCd		Optional	String	Max Length 30
Type		Required	String	Max Length 30
Amount		Optional	PositiveInteger	
Frequency		Required	String	Max Length 30
AccountType		Optional	String	Max Length 30
AccountBalance		Optional	String	Max Length 30
Comment		Required	String	Max Length 30
CurrencyCode		Optional	String	Max Length 30
CurrencyAmount		Optional	PositiveInteger	
CURStatedMonthlyAmt		Optional	PositiveInteger	
CURActualMonthlyAmt		Optional	PositiveInteger	
CURAccountBalance		Optional	String	Max Length 30
CURPastDueAmt		Optional	PositiveInteger	
CURAccountHighBalance		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
Type		Required	String	Max Length 30
Amount		Optional	String	Max Length 30
Frequency		Required	String	Max Length 30
CurrencyCode		Optional	PositiveInteger	
CurrencyAmount		Optional	PositiveInteger	
IncludeInd	Y/N	Optional	NMTOKEN	
CURStatedMonthlyAmt		Required	PositiveInteger	
CURActualMonthlyAmt		Optional	PositiveInteger	
Type		Required	String	Max Length 30
CurrentInd	Y/N	Optional	NMTOKEN	Max Length 30
PhoneExtension		Required	Integer	
Phone		Optional	Long	
PhonelsdCd		Required	Int	0-999
PaIssuedInd	Y/N	Required	NMTOKEN	
PaHolderName		Required	String	Max Length 30
PaAddress		Required	String	Max Length 30
PaHolderAdrCntryCd		Required	String	Max Length 30
PaHolderNationalityCd		Required	String	Max Length 30
PaHolderPhonelsdCd		Required	Int	
PaHolderPhone		Required	Long	
OrganizationTypeCode		Required	String	Max Length 30
BusinessTypeCode		Required	String	Max Length 30
BusinessName		Required	String	Max Length 30
LegalName		Required	String	Max Length 30
CurrencyCode		Required	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
TaxId		Required	String	Max Length 30
StartDate		Optional	DateTime	
CurrentEmployees		Required	PositiveInteger	
NumberOfEmployess		Required	PositiveInteger	
ContactPerson		Optional	String	Max Length 30
NumberOfLocations		Required	Int	
CurrentManagementSince		Required	String	Max Length 30
CheckingBank		Required	String	Max Length 30
BankAccountNumber		Required	String	Max Length 30
AverageCheckingBalance		Required	String	Max Length 30
AnalysisFrequencyCode		Optional	String	Max Length 30
GrossMarginFactor		Required	Integere	
IncomeAmount		Required	PositiveInteger	
BusinessExpenseAmount		Required	PositiveInteger	
PersonalExpenseAmount		Required	PositiveInteger	
AnnualSalesRevenue		Required	PositiveInteger	
ProjectedSalesAmount		Required	PositiveInteger	
AverageCollection		Required	PositiveInteger	
AnnualAverageProjectedCollection		Required	PositiveInteger	
BookListValue		Required	PositiveInteger	
OpenDelinquencyPercentage		Required	Integer	
Turnover		Required	Integer	
Equity		Required	Integer	
ProjectedAnnualExpenseAmount		Required	PositiveInteger	

Request Parameter	Value	Optional / Required	Data Type	Comments
ProjectedAnnualSalesAmount		Required	PositiveInteger	
TotalFinancialAmount		Required	PositiveInteger	
TotalLiabilityAmount		Required	PositiveInteger	
ExpenseAmount		Required	PositiveInteger	
EquityAmount		Required	PositiveInteger	
EquityRatio		Required	Integer	
IncomeExpenseRatio		Required	Integer	
CurrentAssetAmount		Required	PositiveInteger	
FixedAssetAmount		Required	PositiveInteger	
IntangibleAssetAmount		Required	PositiveInteger	
CurrentLiabilityAmount		Required	PositiveInteger	
LongtermLiabilityAmount		Required	PositiveInteger	
CapitalAmount		Required	PositiveInteger	
EarnedSurplusAmount		Required	PositiveInteger	
AnnualSalesAmount		Required	PositiveInteger	
GrossProfitAmount		Required	PositiveInteger	
NetProfitAmount		Required	PositiveInteger	
WorkingCapitalAmount		Required	PositiveInteger	
TotalNetworthAmount		Required	PositiveInteger	
DebtNetworthRatio		Required	PositiveInteger	
Title1		Optional	String	Max Length 30
Title2		Optional	String	Max Length 30
Title3		Optional	String	Max Length 30
Title4		Optional	String	Max Length 30
Signature1		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
Signature2		Optional	String	Max Length 30
Signature3		Optional	String	Max Length 30
Signature4		Optional	String	Max Length 30
CurrentInd	Y/N	Optional	NMTOKEN	
MailingInd	Y/N	Optional	NMTOKEN	
PostalAddressCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
StreetName		Optional	String	Max Length 30
StreetTypeCode		Required	String	Max Length 30
StreetPreTypeCode		Optional	String	Max Length 30
StreetPostTypeCode		Required	String	Max Length 30
SuiteNumber		Optional	String	Max Length 30
Address1		Required	String	Max Length 30
Address2		Optional	String	Max Length 30
City		Required	String	Max Length 30
State		Required	String	Max Length 30
Zip		Required	String	Max Length 30
ZipExtension		Required	String	Max Length 30
Country		Required	String	Max Length 30
Phone		Required	String	Max Length 30
OwnershipCode		Required	String	Max Length 30
Contact		Optional	String	Max Length 30
ContactTitle		Required	String	Max Length 30
ContactPhone		Required	String	Max Length 30
ContactPhoneExtension		Required	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
Comment		Optional	String	Max Length 30
AddressTypeCode		Required	String	Max Length 30
PrefixCode		Optional	String	Max Length 30
FirstName		Required	String	Max Length 30
LastName		Required	String	Max Length 30
MiddleName		Optional	String	Max Length 30
GenerationCode		Optional	String	Max Length 30
SSN		Required	String	Max Length 30
BirthDateType		Optional	DateTime	Max Length 30
BirthPlace		Optional	String	Max Length 30
Title		Required	String	Max Length 30
OwnershipPercent		Required	PositiveInteger	
Networth		Required	PositiveInteger	
GrossIncome		Required	PositiveInteger	
LanguageCode		Optional	String	Max Length 30
RaceNationalOriginCode		Optional	String	Max Length 30
Email		Optional	String	Max Length 30
Phone		Required	Long	Max Length 30
PhoneExtension		Optional	Integer	0-999
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
StreetName		Optional	String	Max Length 30
StreetTypeCode		Optional	String	Max Length 30
StreetPreTypeCode		Optional	String	Max Length 30
StreetPostTypeCode		Optional	String	Max Length 30
SuiteNumber		Optional	PositiveInteger	Max Length 30
Address1		Required	String	Max Length 30
Address2		Optional	String	Max Length 30
City		Required	String	Max Length 30
Zip		Required	PositiveInteger	
ZipExtension		Required	PositiveInteger	
CountryCode		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
OrganizationTypeCode		Required	String	Max Length 30
LegalName		Optional	String	Max Length 30
BusinessName		Required	String	Max Length 30
TaxId		Optional	String	Max Length 30
OwnershipPercent		Required	String	Max Length 30
NumberOfEmployees		Optional	String	Max Length 30
NaicsCode		Required	String	Max Length 30
Phone		Optional	String	Max Length 30
PostalAddressTypeCode		Required	String	Max Length 30
AddressNumber		Optional	String	Max Length 30
StreetName		Required	String	Max Length 30
StreetTypeCode		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
PostalAddressTypeCode		Optional	String	Max Length 30
StreetPreTypeCode		Required	String	Max Length 30
StreetPostTypeCode		Optional	String	Max Length 30
Suitenumber		Required	String	Max Length 30
Address1		Optional	String	Max Length 30
Address2		Required	String	Max Length 30
City		Optional	String	Max Length 30
StateCode		Required	String	Max Length 30
Zip		Optional	String	Max Length 30
ZipExtension		Required	String	Max Length 30
CountryCode		Optional	String	Max Length 30
TelecomTypeCode		Required	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
Phone		Required	Long	
PhoneExtension		Optional	Integer	
CurrentInd	Y/N	Required	NMTOKEN	
FinancialTypeCode		Required	String	Max Length 30
Source		Optional	String	Max Length 30
Amount		Optional	PositiveInteger	Max Length 30
Comment		Optional	String	Max Length 30
CurrencyAmount		Optional	PositiveInteger	
Comment		Optional	String	Max Length 30
CurrencyCode		Optional	String	Max Length 30
IncludeIndi	Y/N	Required	NMTOKEN	
LiabilityTypeCode		Required	String	Max Length 30
Amount		Required	PositiveInteger	
FrequencyCode		Required	String	Max Length 30
StatedMonthlyAmount		Required	PositiveInteger	
ActualMonthlyAmount		Required	PositiveInteger	
IncludeInd	Y/N	Required	NMTOKEN	
CreditBureauSourceCode		Optional	String	Max Length 30
AccountStatus		Optional	String	Max Length 30
AccountBalance		Required	PositiveInteger	
PastDueAmount		Optional	Integer	
PaymentsPastdue30		Optional	Integer	
PaymentsPastdue60		Optional	Integer	
PaymentsPastdue90		Optional	Integer	
AccountOpenDate		Optional	DateTime	

Request Parameter	Value	Optional / Required	Data Type	Comments
CreditLimit		Required	PositiveInteger	
Term		Optional	Integer	
AccountHighBalance		Required	PositiveInteger	
AccountMop		Optional	PositiveInteger	
AccountType		Required	String	Max Length 30
CredatersSubNumber		Optional	String	Max Length 30
CredatersName		Optional	String	Max Length 30
AccountNumber		Optional	String	Max Length 30
CreditBureauECOACode		Optional	String	Max Length 30
Comment		Optional	String	Max Length 30
CurrencyAmount		Optional	PositiveInteger	Max Length 30
CurrencyCode		Optional	String	Max Length 30
PrimaryInd	Y/N	Required	NMTOKEN	
Class		Required	String	Max Length 30
Type		Required	String	Max Length 30
SubType		Required	String	Max Length 30
StatusCode		Optional	String	Max Length 30
Year		Required	Integer	
Make		Optional	String	Max Length 30
Model		Optional	String	Max Length 30
Body		Required	String	Max Length 30
Id		Required	String	Max Length 30
RegistrationNumber		Optional	String	Max Length 30
AddressNumber		Required	String	Max Length 30
Address1		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
Address2		Required	String	Max Length 30
Zip		Required	String	Max Length 30
City		Required	String	Max Length 30
State		Required	String	Max Length 30
ZipExtension		Required	Integer	
CountyCode		Required	String	Max Length 30
UsageStart		Optional	Integer	
BaseUsage		Optional	Integer	
ExtraUsage		Optional	Integer	
TotalUsage		Optional	Integer	
UsageCost		Optional	PositiveInteger	
DealerCollateralNumber		Optional	String	Max Length 80
CurrentInd	Y/N	Required	NMTOKEN	
ValuationDate		Required	DateTime	
SourceCode		Required	String	Max Length 30
Supplement		Required	String	Max Length 30
Edition		Required	String	Max Length 30
WholesaleValue		Required	PositiveInteger	Max Length 30
Usage		Required	PositiveInteger	Max Length 30
RetailValue		Required	PositiveInteger	Max Length 30
UsageValue		Required	PositiveInteger	Max Length 30
CurrencyCode		Optional	String	Max Length 30
CurrencyAmount		Optional	PositiveInteger	Max Length 30
Description		Required	String	Max Length 80
Value		Required	String	Max Length 80

Request Parameter	Value	Optional / Required	Data Type	Comments
Amount		Optional	PositiveInteger	Max Length 30
Comment		Required	String	Max Length 30
Date		Optional	DateTime	
CommentBy		Required	String	
Type		Optional	String	Max Length 30
SubType		Optional	String	Max Length 30
ImportantInd	Y/N	Optional	NMTOKEN	Max Length 30
CreatedBy		Optional	String	Max Length 30
CreationDate		Optional	DateTime	
LastUpdateBy		Optional	String	
LastUpdateDate		Optional	DateTime	
LenderDealerId		Optional	String	Max Length 30
DealerId		Optional	String	Max Length 30
DealerName		Optional	String	Max Length 30
Address1		Optional	String	Max Length 30
Address2		Optional	String	Max Length 30
City		Optional	String	Max Length 30
State		Optional	String	Max Length 30
Zip		Optional	String	Max Length 30
ZipExtn		Optional	String	Max Length 30
Fax		Optional	String	Max Length 30
Country		Optional	String	Max Length 30
Phone		Optional	String	Max Length 30
StatusCode		Optional	String	Max Length 30
ContactName		Optional	String	Max Length 30

Request Parameter	Value	Optional / Required	Data Type	Comments
DealerTaxId		Optional	String	Max Length 30
EmailAddress		Required	String	Max Length 30
EnabledInd		Optional	String	Max Length 30
PreviousProNbr		Optional	String	Max Length 30
Company		Optional	String	Max Length 30
Fax2		Required	String	Max Length 30
Phone2		Optional	String	Max Length 30
Underwriter		Optional	String	Max Length 30
Collector		Optional	String	Max Length 30
Group		Required	String	Max Length 30
Type		Optional	String	Max Length 30
CustomUserDefinedStringData				
KeyName	Required	String		
KeyValue	Required	String		
CustomUserDefinedNumberData				
KeyName	Required	String		
KeyValue	Required	Double		
CustomUserDefinedDateData				
KeyName	Required	String		
KeyValue	Required	Date		

1.2.2 Create Scenario Analysis

Service Name	Service Description	Service URL	Service Method	Sample URL
CreateScenario Analysis	Used to simulate customer's Loan/Lease request	https://<Host>:<Port>/<Deployment Context>/scenari	POST	http://<Host>:<Port>/OfsllRestWS/service/api/resources/scenarioanalysis

Service Name	Service Description	Service URL	Service Method	Sample URL
		oanalysis		

Details of Create Scenario Analysis Service

Purpose of service	This restful service used to simulate scenario for customer's Loan or Lease request and save the same for future enquiry.
Input Schema	OFSLLScenarioType.xsd
Input Type	application/json or application/xml
Return Type	application/json or application/xml
Exception	java.lang.Exception(Refer Errors/Exceptions section for more details)
Service Method	create (@HeaderParam("USE_CONTAINER_AUTH") String usecontainerAuth , ScenarioAnalysisRequest scenarioAnalysisRequest)
Method Type	POST

Input Attribute Parameters

Attribute	Use	Data Type	Comments
UserCode	Required	String	Max Length 30
ScenarioType	Required	String	Max Length 30
ScenarioAnalysisDetails			
FirstName	Required	String	Max Length 30
LastName	Required	String	Max Length 30
Phone	Required	Number	
Company	Required	String	Max Length 30
Branch	Required	String	Max Length 30
Product	Required	String	Max Length 30
ProducerType	Required	String	Max Length 30
ProducerNumber	Required	String	Max Length 30
State	Required	String	Max Length 30

Attribute	Use	Data Type	Comments
Promotion	Required	String	Max Length 30
BillingCycle	Required	String	Max Length 30
Email	Optional	String	Max Length 30
Instrument	Optional	String	Max Length 30
AssetType	Optional	String	Max Length 30
AssetSubType	Optional	String	Max Length 30
AssetClass	Optional	String	Max Length 30
Make	Optional	String	Max Length 30
Model	Optional	String	Max Length 30
LoanDetails			
ActionCode	Required	String	Max Length 30
ProductCategory	Required	String	Max Length 30
ContractDate	Required	Date(YYYY-MM-DD)	
FirstPaymentDate	Required	Date(YYYY-MM-DD)	
FinancedAmount	Required	BigDecimal	
Term	Required	Number	
PrePaidFees	Optional	BigDecimal	
OtherFees	Optional	BigDecimal	
FinancedFees	Optional	BigDecimal	
BalloonPaymentAmount	Optional	BigDecimal	
PaymentAmount	Optional	BigDecimal	
Rate	Optional	Number	
MaturityDate	Optional	Date(YYYY-MM-DD)	
InterestAmount	Optional	BigDecimal	
FinanceCharge	Optional	BigDecimal	

Attribute	Use	Data Type	Comments
TotalOfPayments	Optional	BigDecimal	
APR	Optional	Number	
BalanceAmount	Optional	BigDecimal	
DifferentFirstPayment	Optional	BigDecimal	
AdjustContractDate	Optional	BigDecimal	
FirstPeriodCalenderDays	Optional	BigDecimal	
FinalPaymentAmount	Optional	BigDecimal	
PrincipalPaymentAmount	Optional	BigDecimal	
LoanAmount	Optional	BigDecimal	
LeaseDetails			
ActionCode	Required	String	Max Length 30
ContractDate	Required	Date(YYYY-MM-DD)	
FirstPaymentDate	Required	Date(YYYY-MM-DD)	
ReductionCapitalizedCost	Required	BigDecimal	
LeaseTerm	Required	Number	
MaturityDate	Optional	Date(YYYY-MM-DD)	
Rate	Optional	Number	
GrossCapitalizedCost	Optional	BigDecimal	
AdjustedCapitalizedCost	Optional	BigDecimal	
ResidualValue	Optional	BigDecimal	
DepreciationValue	Optional	BigDecimal	
RentFactor	Optional	BigDecimal	
RentValue	Optional	BigDecimal	
ResidualPercentage	Optional	BigDecimal	
PreBillDays	Optional	Number	

Attribute	Use	Data Type	Comments
ResidualDays	Optional	Number	
RentalFee	Optional	BigDecimal	
PaymentAmount	Optional	BigDecimal	
TotalOfPayments	Optional	BigDecimal	
CalculatorOptions			
BillingCycle	Optional	String	Max Length 30
BalloonMethod	Optional	String	Max Length 30
AccrualBaseMethod	Optional	String	Max Length 30
TimeCountingMethod	Optional	String	Max Length 30
InstallmentMethod	Optional	String	Max Length 30
BillMethod	Optional	String	Max Length 30
CalendarMethod	Optional	String	Max Length 30
AccrualStartDateBasis	Optional	String	Max Length 30
AccrualStartDays	Optional	Number	
RepaymentOptions			
FlexibleRepaymentAllowed	Optional	String	Max Length 1(Y/N)
Type	Optional	String	Max Length 30
ExtendableBalloon			
MaxTerm	Optional	Number	
RepaymentSchedule, PaymentChangeSchedule, RateSchedule			
Seq	Required	Number	
PaymentAmount	Optional	BigDecimal	
NoofPayment	Optional	Number	
Generated	Optional	String	Max Length 1(Y/N)
InterestAmount	Optional	BigDecimal	

Attribute	Use	Data Type	Comments
OptionType	Optional	String	Max Length 30
PrincipleAmount	Optional	BigDecimal	
PaymentOperator	Optional	String	Max Length 30
AdditionalPaymentAmount	Optional	BigDecimal	
AdjustmentValue	Optional	BigDecimal	
NoOfAdjustment	Optional	BigDecimal	
Rate	Optional	BigDecimal	
RepaymentDate	Optional	Date(YYYY-MM-DD)	
Frequency	Optional	String	Max Length 30
Period	Optional	BigDecimal	
RateEffective	Optional	BigDecimal	
StartDate	Optional	Date(YYYY-MM-DD)	
ProfileRate	Optional	BigDecimal	
Advances			
FinanceAmount	Required	BigDecimal	
Rate	Required	BigDecimal	
Seq	Optional	Number	
PrePaidFees	Optional	BigDecimal	
FinancedFees	Optional	BigDecimal	
BalloonPaymentAmount	Optional	BigDecimal	
SkipMonths			
jan	Optional	String	Max Length 1(Y/N)
feb	Optional	String	Max Length 1(Y/N)
mar	Optional	String	Max Length 1(Y/N)
apr	Optional	String	Max Length 1(Y/N)

Attribute	Use	Data Type	Comments
may	Optional	String	Max Length 1(Y/N)
jun	Optional	String	Max Length 1(Y/N)
jul	Optional	String	Max Length 1(Y/N)
aug	Optional	String	Max Length 1(Y/N)
sep	Optional	String	Max Length 1(Y/N)
oct	Optional	String	Max Length 1(Y/N)
nov	Optional	String	Max Length 1(Y/N)
dec	Optional	String	Max Length 1(Y/N)
CustomStringData			
KeyName	Required	String	
KeyValue	Required	String	
CustomNumberData			
KeyName	Required	String	
KeyValue	Required	double	
CustomDateData			
KeyName	Required	String	
KeyValue	Required	Date(YYYY-MM-DD)	

1.2.3 Scenario Analysis Enquiry

Service Name	Service Description	Service URL	Service Method	Sample URL
Scenario Analysis Enquiry	This Restful service is used to search the already created scenario analysis using inquiry id.	https://<Host>:<Port>/<DeploymentContext>/scenarioanalysis	GET	http://<Host>:<Port>/OFSIIRestWS/service/api/resources/scenarioanalysis?inquiryId=string

Details of Scenario Analysis Enquiry Service

Purpose of service	This Restful service is used to search the already created scenario analysis using inquiry id.
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Input Schema	
Input Type	Query Param
Return Type	application/json or application/xml
Exception	java.lang.Exception(<i>Refer Errors/Exceptions section for more details</i>)
Service Method	enquire (@QueryParam("inquiryid") String inquiryId)
Method Type	GET

Input Attribute Parameters

Attribute	Use	Data Type	Comments
inquiry Id	Required	Number	

1.2.4 Application Search Service

Service Name	Service Description	Service URL	Service Method	Sample URL
Application Search	Service to fetch Application details of applicants by attributes such as ApplicationNumber, ApplicantFirstName, ApplicantLastName, SSN(Last Four Digits), ApplicationCreationDate, ApplicantBirthDate Any one of the above mentioned fields is mandatory.	http://<Host Name>:<Port Number>/OfsIIRestWS/service/api/resources/application/get-application-info	GET	http://<Host Name>:<Port Number>/OfsIIRestWS/service/api/resources/application/get-application-info/?applicantFirstName=StringType&applicantLastName=StringType&applicationNumber=StringType&applicantBirthDate=DateType&SSN=integer&creationDate=DateType

Details of Application Search Request Service

Purpose of service	To search application details by various applicants attributes such as Application Number, Applicant First Name , Applicant Last Name, SSN (last 4 digits), Application Creation Date and Applicant Birth Date.
Input Schema	ofsII_application_search.xsd
Input Type	Query Param
Return Type	application/json or application/xml

Exception	java.lang.Exception(Refer Errors/Exceptions section for more details)
Service Method	getApplicationSearch (Queryparam request parameters)
Method Type	GET

Input Attribute Parameters

Attribute	Use	Style	Data Type	Comments
Application Number	Optional	QueryParam	String	Max Length 30
Applicant First Name	Optional	QueryParam	String	Max Length 30
Applicant Last Name	Optional	QueryParam	String	Max Length 30
SSN	Optional	QueryParam	Positive Integer	Last 4 digits
Application Creation Date	Optional	QueryParam	Date	
Applicant Birth Date	Optional	QueryParam	Date	

Note: When there are more than one result for a certain input parameter, system displays an error message as 'Too Many Records Found ! Please Search by Adding One More Parameter'.

1.2.5 Calculator Service

Service Name	Service Description	Service URL	Service Method	Sample URL
Calculator Service	Service is used to calculate payment, term and interest rate for Loan and Lease products.	http://<Host>:<Port>/OfsllRestWS/service/api/resources/calculator/do-calculation	POST	http://<Host>:<Port>/OfsllRestWS/service/api/resources/calculator/do-calculation

Details of Calculator Request Service

Purpose of service	Service is used to calculate payment, term and interest rate for Loan and Lease products.
Input Schema	ofsll_calculator.xsd
Input Type	application/json or application/xml
Return Type	application/json or application/xml
Exception	java.lang.Exception(Refer Errors/Exceptions section for more details)
Service Method	calculator(@HeaderParam("USE_CONTAINER_AUTH") String

	useContainerAuth ,CalculatorTypes calcDetails)
Method Type	POST

Input Attribute Parameters

Attribute	Use	Date Type	Comments
LoanDetails			
CalculatorType	Mandatory	String	It should be LN (LN identifier is used to indicate Loan product).
ActionCode	Mandatory	String	Below are the list of action codes: 1.CALCULATE_PMT 2.CALCULATE_RATE 3. CALCULATE_TERM 4.CALC_BLENDED_RATE 5.CALCULATE_ADV
ProductCategory	Mandatory	String	STANDARD/ISLAMIC
ContractDate	Mandatory	Date	Contract Received Date
FirstPaymentDate	Mandatory	Date	First Payment Date
LoanTerm	Mandatory	Number	Tenure of the Loan
LoanAmount	Optional	Number	
AmountFinance	Optional	Number	Requested Loan Amount
PrePaidFees	Optional	Number	Prepaid Fee to process the loan
FinancedFees	Optional	Number	Finance Fee to process the loan
BalloonPaymentAmount	Optional	Number	An oversized payment due at the end of Loan
PaymentAmount	Optional	Number	Amount of money that be paid
Attribute	Use	Date Type	Comments
Rate	Optional	Number	Loan Interest Rate
LeaseDetails			
CalculatorType	Mandatory	String	It should be LS. (LS identifier is used to indicate Lease product).

Attribute	Use	Date Type	Comments
ActionCode	Mandatory	String	Below are the list of action codes: CALCULATE_PMT CALCULATE_RENT_FACTOR CALCULATE_RESIDUAL_PER CALCULATE_CAP_COST_GRO
ContractDate	Mandatory	Date	Contract Received Date
FirstPaymentDate	Mandatory	Date	First Payment Date
LeaseTerm	Mandatory	Number	Tenure of the Lease
Rate	Optional	Number	Lease Interest Rate
GrossCapitalizedCost	Mandatory	Number	Agreed cost of the asset
ReductionCapitalizedCost	Mandatory	Number	Upfront payment that reduces the cost of financing
ResidualPercentage	Mandatory	Number	Residual percentage of the asset at the end of Lease period
ResidualDays	Optional	Number	Residual days after Lease period
RentalFee	Optional	Number	Rental Fee
ProfitRate	Optional	Number	
PaymentAmount	Optional	Number	Amount of money that be paid
CalculatorOptions			
Attribute	Use	Date Type	Comments
BillingCycle	Mandatory	String	Please refer BILL_METHOD_CD lookup
BalloonMethod	Mandatory	String	Please refer BALLOON_METHOD_CD lookup
AccrualBaseMethod	Mandatory	String	Please refer ACCRUAL_BASE_METHOD_CD lookup
TimeCountingMethod	Mandatory	String	Please refer TIME_COUNTING_METHOD_CD lookup
InstallmentMethod	Optional	String	Please refer INSTALLMENT_METHOD_CD

Attribute	Use	Date Type	Comments
			lookup
BillMethod	Optional	String	Please refer BILL_METHOD_CD lookup
CalendarMethod	Optional	String	Please refer BILL_CALENDAR_METHOD_CD lookup
AccrualStartDateBasis	Optional	String	Please refer ACCRUAL_START_DT_BASIS_CD lookup
AccrualStartDays	Optional	Number	Please refer WFP_ACCR_BASE_DAYS_CD lookup
RepaymentOptions			
FlexibleRepaymentAllowed	Optional	String	It should be Y/N
Type	Optional	String	Please refer REPAYMENT_TYPE_CD lookup
ExtendableBalloon			
MaxTerm	Optional	Number	This should be greater than loan term
SkipMethod			
Jan	Optional	String	It should be Y/N
Feb	Optional	String	It should be Y/N
Mar	Optional	String	It should be Y/N
Apr	Optional	String	It should be Y/N
May	Optional	String	It should be Y/N
Jun	Optional	String	It should be Y/N
Jul	Optional	String	It should be Y/N
Aug	Optional	String	It should be Y/N
Sep	Optional	String	It should be Y/N
Oct	Optional	String	It should be Y/N

Attribute	Use	Date Type	Comments
Nov	Optional	String	It should be Y/N
Dec	Optional	String	It should be Y/N
RepaymentSchedule			
Attribute	Use	Date Type	Comments
Seq	Optional	Number	Sequence order of the payment.
PaymentAmount	Optional	Number	User defined payment amount
NoOfPayment	Optional	Number	Number of payments
RateSchedule			
Seq	Optional	Number	Sequence order of the rate.
Rate	Optional	Number	User defined rate
StartDate	Optional	Date	User defined Start Date
PaymentChangeSchedule			
Seq	Optional	Number	Sequence order of the payment change.
OptionType	Optional	String	Please refer GRADUATED_PAYMENT_CD lookup
Frequency	Optional	String	Please refer GRADUATED_PMT_CHANGE_FREQ_CD lookup
Period	Optional	Number	
NoOfAdjs	Optional	Number	Number of Adjustments
AdjustmentValue	Optional	Number	Positive Number
AdvancesType (Blended Rate)			
Seq	Optional	Number	Sequence order of the payment change.
FinanceAmount	Mandatory	Number	Requested Loan Amount
Rate	Mandatory	Number	Loan Interest Rate
PrePaidFees	Optional	Number	Prepaid Fee to process the loan

Attribute	Use	Date Type	Comments
FinancedFees	Optional	Number	Finance Fee to process the loan
BalloonPaymentAmount	Optional	Number	An oversized payment due at the end of Loan
CustomUserDefinedStringData			
KeyName	Required	String	
KeyValue	Required	String	
CustomUserDefinedNumberData			
KeyName	Required	String	
KeyValue	Required	Double	
CustomUserDefinedDateData			
KeyName	Required	String	
KeyValue	Required	Date	

2. Appendix: Revision History

2.1.1 Changes for web services Patch released

Section	Section Name	Release Version	Description of Change
1	First version document created for Origination REST web services.	14.3.1.0.0	<u>Following webservice is added:</u> <ul style="list-style-type: none">• Application Entry• Create Scenario Analysis• Scenario Analysis Enquiry• Application Search Service• Calculator Service