

Customer Service RESTful Web Services  
User Guide

# **Oracle Financial Services Lending and Leasing**

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Customer Service Web Services User Guide  
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# 1. Customer Service Web Services

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

This document is organized in the following way:

- List of Customer Service 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.  
[http://docs.oracle.com/cd/E79024\\_01/pdf/refdocs/WebServicesDocuments.zip](http://docs.oracle.com/cd/E79024_01/pdf/refdocs/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 Customer Service Web Services

Following are the available Customer Service related web services:

- [AccountSearchRequestService](#)
- [Generic Post Transaction](#)
- [CallActivity](#)
- [Scheduler Service](#)
- [Account On Boarding](#)

## 1.2 Details of Web Services with Input Attribute Parameters

### 1.2.1 AccountSearchRequestService

Service Name	Service Description	Service URL	Service Method	Sample URL
Account Search	Service to fetch Account Details of customers by attributes such as AccountNumber, CustomerFirstName, CustomerLastName, SSN(Last Four Digits),Customer Phone number,CustomerDate Of Birth,ASE	https://<Host>:<Port>/<Deployment Context>/account/get-account-info	GET	http://<Host>:<Port>/OfsllRestWS/service/api/resources/account/get-account-info?accountNbr=string&custFname=string&custLname=string&AselidentificationNbr=string&custPhoneNumber=long&custBirthDate=da

Service Name	Service Description	Service URL	Service Method	Sample URL
	identification number. Any one of the above mentioned fields is mandatory.			te&SSN=biginteger

#### Details of Account Search Request Service

<b>Purpose of service</b>	To search account details by various customer attributes such as Account Number, Customer First Name, Customer Last Name, SSN(last 4 digits), Phone Number, Birth Date.
<b>Input Schema</b>	ofsl_account_search.xsd
<b>Input Type</b>	Query Param
<b>Return Type</b>	application/json or application/xml
<b>Exception</b>	java.lang.Exception( <i>Refer Errors/Exceptions section for more details</i> )
<b>Service Method</b>	getAccountSearch (Queryparam request parameters)
<b>Method Type</b>	GET

#### Input Attribute Parameters

Attribute	Use	Style	Data Type	Comments
Account Number	Optional	QueryParam	String	Max Length 30
Customer First Name	Optional	QueryParam	String	Max Length 30
Customer Last Name	Optional	QueryParam	String	Max Length 30
SSN	Optional	QueryParam	Positive Integer	Last 4 digits
Customer Phone Number	Optional	QueryParam	Long	
Customer Birth Date	Optional	QueryParam	Date	
ASE identification number	Optional	QueryParam	String	Max Length 30

**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'.

### 1.2.2 Generic Post Transaction

Service Name	Service Description	Service URL	Service Method	Sample URL
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Service Name	Service Description	Service URL	Service Method	Sample URL
Generic Post Transaction.	Using this service, third party systems can post monetary or non-monetary transactions supported by OFSLL. Multiple transactions can be posted by providing the parameters for different transactions in the order in which each transaction needs to be posted. Once transaction positing is completed, system provides success/failure responses for each of the transactions included in the web service call.	https://<Host>:<Port>/<Deployment Context>/generic-post-transaction/post-transaction	POST	http://<Host>:<Port>/OFSLLRestWS/service/api/resources/generic-post-transaction/post-transaction

The following Transaction Action types are allowed through generic post transaction web service:

- 'ADJUST\_MINUS'
- 'ADJUST\_PLUS'
- 'CHGOFF'
- 'POST'
- 'TERMINATE'
- 'VOID'
- 'WAIVE'

#### Details of Generic Post Transaction Service

<b>Purpose of service</b>	To post monetary / non-monetary transactions
<b>Input Schema</b>	ofsll_generic_post_txn.xsd
<b>Input Type</b>	application/json or application/xml
<b>Return Type</b>	application/json or application/xml
<b>Exception</b>	java.lang.Exception( <i>Refer Errors/Exceptions section for more details</i> )
<b>Service Method</b>	genericPostTxn(@HeaderParam("USE_CONTAINER_AUTH") String usecontainerAuth ,PostTransactionRequestType inputRequest)
<b>Method Type</b>	POST

### Input Attribute Parameters

Attribute	Use	Data Type	Comments
TransactionType	Mandatory	String	GenericPostTransaction Or ProducerTransaction
EntityReferenceNumber	Mandatory	String	Accountnumber/producerNumber
TransactionCode	Mandatory	String	

### 1.2.3 CallActivity

Service Name	Service Description	Service URL	Service Method	Sample URL
Call Activity	Using this service, third party systems can post single or multiple call activities supported by OFSLL. Multiple call activities can be posted by providing the parameters for different call activities in the order in which each of them needs to be posted. Once transaction positing is completed, system provides success/failure responses for each of the call activities included in the web service call.	https://<Host>:<Port>/<Deployment Context>/ call-activity/post-call-activity	POST	http://<Host>:<Port>/OFSllRestWS/service/api/resources/call-activity/post-call-activity

### Details of Call Activity Service

<b>Purpose of service</b>	To post call activities.
<b>Input Schema</b>	ofsll_call_activity.xsd
<b>Input Type</b>	application/json or application/xml
<b>Return Type</b>	application/json or application/xml
<b>Exception</b>	java.lang.Exception( <i>Refer Errors/Exceptions section for more details</i> )
<b>Service Method</b>	executeCallActivity (@HeaderParam("USE_CONTAINER_AUTH") String usecontainerAuth , CallActivityType callActivityType)
<b>Method Type</b>	POST

### Input Attribute Parameters

Attribute	Use	Data Type	Comments
Account Number	Mandatory	positiveInteger	
Action	Mandatory	String	Max Length 30
Resultcode	Mandatory	String	Max Length 30
PromisedAmount	Optional	double	
FollowUpDate	Mandatory	Date	
TimeZone	Optional	String	Max Length 30
GroupFollowUp	Optional	NMTOKEN (Y/N)	
Contact	Optional	Positive Integer	Last Four Characters
Condition	Optional	String	Max Length 30
Comment	Optional	String	Max Length 30
Appointment	Optional	NMTOKEN (Y/N)	
Reason	Optional	Long	
PromiseDate	Optional	Date	

### 1.2.4 Scheduler Service

Service Name	Service Description	Service URL	Service Method	Sample URL
Scheduler Service	Using this web service, third party schedulers / systems can remotely control the OFSLL job operations like start, stop or query the status of a job set.	https://<Host>:<Port>/<Deployment Context>/scheduler/executeJobSet	POST	http://<Host>:<Port>/OFSllRestWS/service/api/resources/scheduler/executeJobSet

#### Details of Scheduler Service

<b>Purpose of service</b>	To start / stop a job set and retrieve the status details of the job set by passing job set code.
<b>Input Schema</b>	ofsll_scheduler.xsd
<b>Input Type</b>	Application/json and application/xml

<b>Return Type</b>	Application/json and application/xml
<b>Exception</b>	java.lang.Exception( <i>Refer Errors/Exceptions section for more details</i> )
<b>Service Method</b>	executeJobSet (JobSet jobSet)
<b>Method Type</b>	POST

#### Input Attribute Parameters

Attribute	Use	Data Type	Comments
Code	Mandatory	String	Max Length 30
Description	Optional	String	Max Length 30
EnabledInd	Optional	String	Max Length 30
ParentCode	Optional	String	Max Length 30
Dependency	Optional	Date	
Frequency	Optional	String	Max Length 30
FrequencyValue	Optional	String	Max Length 30
Status	Optional	String	Max Length 30
StartTime	Optional	Date	
LastRunDate	Optional	Date	
CriticalityIndicator	Optional	String	Max Length 30
LastUpdatedDate	Optional	Date	
LastUpdatedBy	Optional	String	Max Length 30
Code	Mandatory	String	*(QUERY/START/STOP) Max Length 30
CreatedBy	Optional	String	Max Length 30
CreationDate	Optional	Date	

\* Note the following:

- QUERY is used to get Jobset Code Details
- START is used to the Start the Jobset
- STOP is used to the Stop the Jobset

## 1.2.5 Account On Boarding

Service Name	Service Description	Service URL	Service Method	Sample URL
Account On Boarding	Using this web service, third party origination systems can move the funded accounts data to OFSLL so that accounts can be created in OFSLL servicing module.	https://<Host>:<Port>/<Deployment Context>/account/get-account-info	POST	http://<Host>:<Port>/OfsllRestWS/service/api/resources/accountBoarding/executeLoanApplication

### Details of Account On Boarding Service

<b>Purpose of service</b>	To create accounts in OFSLL servicing systems using the data provided by third party origination systems.
<b>Input Schema</b>	ofsll_account_boarding.xsd
<b>Input Type</b>	application/json or application/xml
<b>Return Type</b>	application/json or application/xml
<b>Exception</b>	java.lang.Exception( <i>Refer Errors/Exceptions section for more details</i> )
<b>Service Method</b>	executeLoanApplication ((@HeaderParam("USE_CONTAINER_AUTH") String usecontainerAuth ,AccountBoardingType accountBoardingType)

### Input Attribute Parameters

Request Parameter	Value	Optional/Required	Data Type	Comments
LookupValue	Y/N	Optional	String	Max Length 30
EditValue	Y/N	Optional	String	Max Length 30
ApplicationDate		Optional	DateTime	
OriginationSystemReference		Required	String	Max Length 30
Product		Required	String	Max Length 30
SourceCode		Required	String	Max Length 30
PriorityCode		Optional	String	Max Length 30
CompanyCode		Required	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
BranchCode		Required	String	Max Length 30
StatusCode		Optional	String	Max Length 30
SubStatusCode		Optional	String	Max Length 30
OriginationStageCode		Optional	String	Max Length 30
PurposeCode		Optional	String	Max Length 30
ProducerTypecode		Optional	String	Max Length 30
ProducerNumber		Required	String	Max Length 30
ExistingCustomerInd	Y/N	Optional	Enumeration	
DuplicateInd	Y/N	Optional	Enumeration	
ClassTypeCode		Required	String	Max Length 30
JointIndicator	Y/ N	Optional	Enumeration	
CosignedIndicator	Y/N	Optional	Enumeration	
SubUnitCode		Optional	String	Max Length 30
CreatedBy		Optional	String	Max Length 30
RelationTypeCode		Required	String	Max Length 30
FirstName		Required	String	Max Length 30
MiddleName		Optional	String	Max Length 30
LastName		Required	String	Max Length 30
SSN		Required	integer	
BirthDate		Required	DateTime	
GenderCode		Optional	String	Max Length 30
MaritalStatus		Optional	String	
NumberOfDependents		Optional	nonNegativeInteger	
LanguageCode		Optional	String	
DisabilityIndicator	Y/N	Required	Enumeration	

Request Parameter	Value	Optional/ Required	Data Type	Comments
DrivingLicenseNumber		Optional	String	Max Length 30
DrivingLicenseStateCode		Optional	String	Max Length 30
MotherMaidenName		Optional	String	Max Length 30
EmailAddress1		Optional	String	Max Length 30
ClassTypeCode		Required	String	Max Length 30
GenerationCode		Optional	String	Max Length 30
ResidencyDate		Optional	DateTime	
PrivacyOptoutIndicator	Y/N	Required	Enumeration	
MaritalStatusDate		Optional	DateTime	
SalutationTypeCode		Optional	String	Max Length 30
MaidenName		Optional	String	Max Length 30
FullName		Optional	String	Max Length 30
PermitToStay		Optional	String	Max Length 30
PermitToWork		Optional	String	Max Length 30
PassportNumber		Optional	String	Max Length 30
PassportIssueDate		Optional	DateTime	
PassportExpiryDate		Optional	DateTime	
NationalId		Optional	String	Max Length 30
VisaNbr		Required	String	Max Length 30
NationalityCode		Required	String	Max Length 30
EducationLevelCode		Optional	String	Max Length 30
PriorBankruptcyIndicator	Y/N	Optional	Enumeration	Max Length 30
KycRefNbr		Optional	nonNegativeInteger	
KycStatusCode		Optional	String	Max Length 30
LiabNbr		Optional	integer	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
BirthPlace		Optional	String	Max Length 30
BirthCountryCd		Optional	String	Max Length 30
UsResInd	Y/N	Optional	Enumeration	
CustomerCategoryCd		Optional	String	Max Length 30
PaIssuedInd	Y/N	Optional	Enumeration	
PaHolderName		Optional	String	Max Length 30
PaAddress		Optional	String	Max Length 30
PaHolderAdrCntryCd		Optional	String	Max Length 30
PaHolderNationalityCd		Optional	String	Max Length 30
PaHolderPhoneIscdCd		Optional	integer	
PaHolderPhone		Optional	long	
CrbEcoaCode		Optional	String	Max Length 30
RaceNationalOriginCode		Optional	String	Max Length 30
InsuranceOptOutIndicator	Y/N	Optional	Enumeration	
MarketingOptOutIndicator	Y/N	Optional	Enumeration	
ShareCreditOptOutIndicator	Y/N	Optional	Enumeration	
AddressTypeCode		Required	String	Max Length 30
Address1		Required	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Required	positiveInteger	
ZipExtension		Optional	positiveInteger	
Phone		Required	long	
PhoneIscdCd		Optional	integer	
Comment		Optional	String	Max Length 30
MailingIndicator	Y/N	Optional	Enumeration	

Request Parameter	Value	Optional/ Required	Data Type	Comments
CurrentIndicator	Y/N	Required	Enumeration	
City		Required	String	Max Length 30
State		Required	String	Max Length 30
CountryCode		Required	String	Max Length 30
PostalAddressTypeCode		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
AddressNumber		Required	String	Max Length 30
SuiteNumber		Optional	String	Max Length 30
Address3		Optional	String	Max Length 80
Landmark		Optional	String	Max Length 30
ConfirmedIndicator	Y/N	Optional	Enumeration	
PermissionToCallIndicator	Y/N	Required	Enumeration	
Title		Optional	String	Max Length 30
OccupationCode		Optional	String	Max Length 30
CurrentIndicator	Y/N	Required	Enumeration	
Name		Required	String	Max Length 30
AddressNumber		Optional	String	Max Length 30
Address1		Optional	String	Max Length 80
Address2		Optional	String	Max Length 80
Zip		Optional	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
State		Optional	String	Max Length 30
CountryCode		Required	String	
Phone		Required	long	
PhoneExtension		Optional	integer	
PhonelsdCd		Optional	integer	
Comment		Optional	String	Max Length 30
EmployeeTypeCode		Required	String	Max Length 30
StreetName		Optional	String	Max Length 30
SteNbr		Optional	String	Max Length 30
EmployeeId		Optional	String	Max Length 30
Department		Optional	String	Max Length 30
PermissionToCallIndicator	Y/N	Required	Enumeration	
Years		Optional	integer	
Months		Optional	integer	
FrequencyCode		Optional	String	Max Length 30
TelecomTypeCode		Required	String	Max Length 30
Phone		Required	long	
PhoneExtension		Optional	integer	
PhonelsdCd		Optional	integer	
CurrentIndicator	Y/N	Required	Enumeration	
BestCallStartTime		Optional	integer	
CallStartPeriodCode		Optional	String	Max Length 30
BestCallEndTime		Optional	integer	
CallEndPeriodCode		Optional	String	Max Length 30
TimeZoneCode		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
PermissionToCallIndicator	Y/N	Required	Enumeration	
BestDayToCall		Optional	String	Max Length 30
FtbTable		Required	String	Max Length 30
TableAttribute		Required	String	Max Length 30
TableSubAttribute		Optional	String	Max Length 30
Value		Optional	String	Max Length 30
ApplicantId		Required	integer	
VerificationType		Required	String	Max Length 30
Status		Required	String	Max Length 30
CallDt		Optional	Date	
NoOfAttempts		Optional	integer	
Result		Required	String	Max Length 30
VerificationDate		Optional	Date	
VerificationMatch	Y/N	Required	Enumeration	
Remarks		Optional	String	Max Length 30
RelationTypeCode		Required	String	Max Length 30
FirstName		Required	String	Max Length 30
MiddleName		Optional	String	Max Length 30
LastName		Required	String	Max Length 30
SSN		Required	integer	
BirthDate		Required	DateTime	
GenderCode		Optional	String	Max Length 30
MaritalStatus		Optional	String	Max Length 30
NumberOfDependents		Optional	nonNegativeInteger	
LanguageCode		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
DisabilityIndicator	Y/N	Required	Enumeration	
DrivingLicenseNumber		Optional	String	Max Length 30
DrivingLicenseStateCode		Optional	String	Max Length 30
MotherMaidenName		Optional	String	Max Length 30
EmailAddress1		Optional	String	Max Length 30
ClassTypeCode		Required	String	Max Length 30
GenerationCode		Optional	String	Max Length 30
ResidencyDate		Optional	DateTime	
PrivacyOptoutIndicator	Y/N	Required	Enumeration	
MaritalStatusDate		Optional	DateTime	
SalutationTypeCode		Optional	String	Max Length 30
MaidenName		Optional	String	Max Length 30
FullName		Optional	String	Max Length 30
PermitToStay		Optional	String	Max Length 30
PermitToWork		Optional	String	Max Length 30
PassportNumber		Optional	String	Max Length 30
PassportIssueDate		Optional	DateTime	
PassportExpiryDate		Optional	DateTime	
NationalId		Optional	String	Max Length 30
VisaNbr		Required	String	Max Length 30
NationalityCode		Required	String	Max Length 30
EducationLevelCode		Optional	String	Max Length 30
PriorBankruptcyIndicator	Y/N	Optional	Enumeration	
KycRefNbr		Optional	nonNegativeInteger	
KycStatusCode		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
LiabNbr		Optional	integer	
BirthPlace		Optional	String	Max Length 30
BirthCountryCd		Optional	String	Max Length 30
UsResInd	Y/N	Optional	Enumeration	
CustomerCategoryCd		Optional	String	Max Length 30
PalssuedInd	Y/N	Optional	Enumeration	
PaHolderName		Optional	String	Max Length 30
PaAddress		Optional	String	Max Length 30
PaHolderAdrCntryCd		Optional	String	Max Length 30
PaHolderNationalityCd		Optional	String	Max Length 30
PaHolderPhonelsdCd		Optional	integer	
PaHolderPhone		Optional	long	
CrbEcoaCode		Optional	String	Max Length 30
RaceNationalOriginCode		Optional	String	Max Length 30
InsuranceOptOutIndicator	Y/N	Optional	Enumeration	
MarketingOptOutIndicator	Y/N	Optional	Enumeration	
ShareCreditOptOutIndicator	Y/N	Optional	Enumeration	
AddressTypeCode		Required	String	Max Length 30
Address1		Required	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Required	positiveInteger	
ZipExtension		Optional	positiveInteger	
Phone		Required	long	
PhonelsdCd		Optional	integer	
Comment		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
MailingIndicator	Y/N	Optional	Enumeration	
CurrentIndicator	Y/N	Required	Enumeration	
City		Required	String	Max Length 30
State		Required	String	Max Length 30
CountryCode		Required	String	Max Length 30
PostalAddressTypeCode		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
AddressNumber		Required	String	Max Length 30
SuiteNumber		Optional	String	Max Length 30
Address3		Optional	String	Max Length 30
Landmark		Optional	String	Max Length 30
ConfirmedIndicator	Y/N	Optional	Enumeration	
PermissionToCallIndicator	Y/N	Required	Enumeration	
Title		Optional	String	Max Length 30
OccupationCode		Optional	String	Max Length 30
CurrentIndicator	Y/N	Required	Enumeration	
Name		Required	String	
AddressNumber		Optional	String	Max Length 30
Address1		Optional	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Optional	positiveInteger	
ZipExtension		Optional	positiveInteger	

Request Parameter	Value	Optional/ Required	Data Type	Comments
City		Optional	String	Max Length 30
State		Optional	String	Max Length 30
CountryCode		Required	String	Max Length 30
Phone		Required	long	
PhoneExtension		Optional	integer	
PhonelsdCd		Optional	integer	
Comment		Optional	String	Max Length 30
EmployeeTypeCode		Required	String	Max Length 30
StreetName		Optional	String	Max Length 30
SteNbr		Optional	String	Max Length 30
EmployeeId		Optional	String	Max Length 30
Department		Optional	String	Max Length 30
PermissionToCallIndicator	Y/N	Required	Enumeration	
Years		Optional	integer	
Months		Optional	integer	
FrequencyCode		Optional	String	Max Length 30
TelecomTypeCode		Required	String	Max Length 30
Phone		Required	long	
PhoneExtension		Optional	integer	
PhonelsdCd		Optional	integer	
CurrentIndicator	Y/N	Required	Enumeration	
BestCallStartTime		Optional	integer	
CallStartPeriodCode		Optional	String	Max Length 30
BestCallEndTime		Optional	integer	
CallEndPeriodCode		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
TimeZoneCode		Optional	String	Max Length 30
PermissionToCallIndicator	Y/N	Required	Enumeration	
BestDayToCall		Optional	String	Max Length 30
FtbTable		Required	String	Max Length 30
TableAttribute		Required	String	Max Length 30
TableSubAttribute		Optional	String	Max Length 30
Value		Optional	String	Max Length 30
ApplicantId		Required	integer	
VerificationType		Required	String	Max Length 30
Status		Required	String	Max Length 30
CallDt		Optional	Date	
NoOfAttempts		Optional	integer	
Result		Required	String	Max Length 30
VerificationDate		Optional	Date	
VerificationMatch	Y/N	Required	Enumeration	
Remarks		Optional	String	Max Length 30
OrganizationTypeCode		Required	String	Max Length 30
BusinessTypeCode		Required	String	Max Length 30
BusinessName		Required	String	Max Length 30
LegalName		Required	String	Max Length 30
TaxId		Required	String	Max Length 30
StartDate		Required	DateTime	
CurrentEmployees		Required	positiveInteger	
NumberOfEmployess		Required	positiveInteger	
ContactPerson		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
NumberOfLocations		Required	positiveInteger	
CurrentManagementSince		Required	positiveInteger	
CheckingBank		Required	String	Max Length 30
BankAccountNumber		Required	String	Max Length 30
AverageCheckingBalance		Required	double	
AnalysisFrequencyCode		Optional	String	
GrossMarginFactor		Optional	integer	
IncomeAmount		Optional	double	
BusinessExpenseAmount		Optional	double	minInclusive=0
PersonalExpenseAmount		Optional	double	minInclusive=0
AnnualSalesRevenue		Optional	double	minInclusive=0
ProjectedSalesAmount		Optional	double	minInclusive=0
AverageCollection		Optional	double	minInclusive=0
AnnualAverageProjectedCollection		Optional	double	minInclusive=0
BookListValue		Optional	double	minInclusive=0
OpenDelinquencyPercentage		Optional	integer	
Turnover		Optional	integer	
Equity		Optional	integer	
Title1		Optional	String	
Title2		Optional	String	
Title3		Optional	String	
Title4		Optional	String	
CapitalAmount		Optional	double	minInclusive=0
EarnedSurplusAmount		Optional	double	minInclusive=0
AnnualSalesAmount		Optional	double	minInclusive=0

Request Parameter	Value	Optional/ Required	Data Type	Comments
GrossProfitAmount		Optional	double	minInclusive=0
NetProfitAmount		Optional	double	minInclusive=0
WorkingCapitalAmount		Optional	double	minInclusive=0
CurrentIndicator	Y/N	Required	Enumeration	
MailingIndicator	Y/N	Required	Enumeration	
PostalAddressCode		Required	String	Max Length 30
AddressNumber		Optional	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	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Required	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	String	Max Length 30
State		Optional	String	Max Length 30
Country		Required	String	Max Length 30
Phone		Required	long	
OwnershipCode		Optional	String	Max Length 30
VerifyBy		Optional	String	Max Length 30
VerifyDate		Optional	DateTime	
Contact		Optional	String	Max Length 30
ContactTitle		Optional	String	Max Length 30
ContactPhone		Optional	long	

Request Parameter	Value	Optional/ Required	Data Type	Comments
ContactPhoneExtension		Optional	integer	
Comment		Optional	String	Max Length 30
AddressTypeCode		Optional	String	Max Length 30
StartDate		Optional	DateTime	
TelecomTypeCode		Required	String	
Phone		Required	long	
PhoneExtension		Optional	integer	
CurrentIndicator	Y/N	Required	Enumeration	
PrefixCode		Optional	String	Max Length 30
FirstName		Optional	String	Max Length 30
LastName		Optional	String	Max Length 30
MiddleName		Optional	String	Max Length 30
GenerationCode		Optional	String	Max Length 30
SSN		Required	integer	
BirthDateType		Optional	DateTime	
BirthPlace		Optional	String	Max Length 30
Title		Optional	String	Max Length 30
OwnershipPercent		Required	integer	
NetWorth		Required	double	minInclusive=0
GrossIncome		Required	double	minInclusive=0
LanguageCode		Optional	String	Max Length 30
RaceNationalOriginCode		Optional	String	Max Length 30
Email		Optional	String	Max Length 30
Phone		Required	long	
PhoneExtension		Optional	integer	

Request Parameter	Value	Optional/ Required	Data Type	Comments
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Optional	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	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Required	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	String	Max Length 30
State		Optional	String	Max Length 30
CountryCode		Required	String	Max Length 30
directorIndicator	Y/N	Optional	Enumeration	
OrganizationTypeCode		Optional	String	Max Length 30
LegalName		Optional	String	Max Length 30
BusinessName		Optional	String	Max Length 30
TaxId		Optional	String	Max Length 30
OwnershipPercent		Required	integer	
NumberOfEmployees		Required	positiveInteger	
NaicsCode		Optional	String	Max Length 30
Phone		Optional	long	
PostalAddressTypeCode		Optional	String	Max Length 30
AddressNumber		Optional	String	Max Length 30
StreetName		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
StreetTypeCode		Optional	String	Max Length 30
StreetPreTypeCode		Optional	String	Max Length 30
StreetPostTypeCode		Optional	String	Max Length 30
SuiteNumber		Optional	String	Max Length 30
Address1		Optional	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Required	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	String	Max Length 30
StateCode		Optional	String	Max Length 30
CountryCode		Optional	String	Max Length 30
Type		Required	String	Max Length 30
SubType		Required	String	Max Length 30
PrimaryIndicator	Y/N	Optional	Enumeration	
ClassCode		Required	String	Max Length 30
StatusCode		Optional	String	Max Length 30
NewIndicator	Y/N	Optional	Enumeration	
Year		Required	integer	
Make		Optional	String	Max Length 30
Model		Optional	String	Max Length 30
Body		Optional	String	Max Length 30
IdentificationNbr		Optional	String	Max Length 30
ConditionCode		Required	String	Max Length 30
AseGeo		Optional	String	Max Length 30
AddressNumber		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
Address1		Optional	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Required	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	string	Max Length 30
StateCode		Optional	String	Max Length 30
CountyCode		Optional	String	Max Length 30
Country		Optional	String	Max Length 30
UsageStart		Optional	String	Max Length 30
BaseUsage		Optional	String	Max Length 30
ExtraUsage		Optional	String	Max Length 30
TotalUsage		Optional	String	Max Length 30
UsageCharge		Optional	String	Max Length 30
RegistrationNbr		Optional	String	Max Length 30
MeteBondsIndicator	Y/N	Optional	Enumeration	
FloodZoneIndicator	Y/N	Optional	Enumeration	
CollateralTypeCode		Optional	String	Max Length 30
OwnerOccupancyCode		Optional	String	Max Length 30
Block		Optional	String	Max Length 30
Location		Optional	String	Max Length 30
SizeWidth		Optional	String	Max Length 30
SizeLength		Optional	String	Max Length 30
SizeArea		Optional	String	Max Length 30
PurchaseOrderNbr		Optional	String	Max Length 30
LegalDesc		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
Lot		Optional	String	Max Length 30
SubDivision		Optional	String	Max Length 30
ParcelIdNbr		Optional	String	Max Length 30
NotRequiredIndicator1098	Y/N	Optional	Enumeration	
DeedDate		Optional	DateTime	
PermitDate		Optional	DateTime	
DeedIssuePlace		Optional	String	Max Length 30
PROP_BND_North		Optional	String	Max Length 30
PROP_BND_South		Optional	String	Max Length 30
PROP_BND_East		Optional	String	Max Length 30
PROP_BND_West		Optional	String	Max Length 30
CurrentIndicator	Y/N	Required	Enumeration	
ValuationDate		Required	DateTime	
SourceCode		Required	String	Max Length 30
Edition		Optional	String	Max Length 30
Supplement		Optional	String	Max Length 30
Usage		Required	integer	
RetailValue		Required	double	minInclusive=0
WholesaleValue		Required	double	minInclusive=0
UsageValue		Required	double	minInclusive=0
AddOnsValue		Optional	double	minInclusive=0
TotalValue		Optional	double	minInclusive=0
CurrencyCode		Optional	String	minInclusive=0
CerRate		Optional	double	minInclusive=0
CurrencyRetailValue		Optional	double	minInclusive=0

Request Parameter	Value	Optional/ Required	Data Type	Comments
CurrencyWholeSaleValue		Optional	double	minInclusive=0
CurrencyUsageValue		Optional	double	minInclusive=0
CurrencyAddOnValue		Optional	double	minInclusive=0
CurrencyTotalValue		Optional	double	minInclusive=0
Type		Required	String	
Amount		Required	double	minInclusive=0
Value		Optional	String	Max Length 30
Description		Optional	String	Max Length 30
FtbTable		Required	String	Max Length 30
DispositionCode		Required	String	Max Length 30
TrackingStartDate		Required	DateTime	
TrackingEndDate		Optional	DateTime	
NextFollowupDate		Required	DateTime	
EnabledIndicator	Y/N	Optional	Enumeration	
TrackingComment		Optional	String	Max Length 30
FtbTable		Required	String	Max Length 30
FtaTableAttribute		Optional	String	Max Length 30
Value		Optional	String	Max Length 30
Name		Optional	String	Max Length 30
NationalityCode		Optional	String	Max Length 30
NationalityId		Optional	String	Max Length 30
Signatory		Optional	String	Max Length 30
TypeCode		Optional	String	Max Length 30
EducationLevelCode		Optional	String	Max Length 30
CurrentIndicator	Y/N	Optional	Enumeration	

Request Parameter	Value	Optional/ Required	Data Type	Comments
MailingIndicator	Y/N	Optional	Enumeration	
AddressNumber		Optional	String	Max Length 30
Address1		Optional	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Optional	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	String	Max Length 30
StateCode		Optional	String	Max Length 30
CountryCode		Optional	String	Max Length 30
Phone		Optional	long	
PhoneExtension		Optional	integer	
Comment		Required	String	Max Length 30
CommentDate		Required	DateTime	
CommentBy		Required	String	Max Length 30
TypeCode		Required	String	Max Length 30
SubTypeCode		Required	String	Max Length 30
ImportantIndicator	Y/N	Required	Enumeration	
AadSysXref		Optional	String	Max Length 30
SysXref		Optional	String	Max Length 30
ContractDate		Required	DateTime	
AppTerm		Required	integer	
FirstPaymentDate		Required	DateTime	
MaturityDate		Required	DateTime	
LoanAmount		Required	double	minInclusive=0
FeeAmountFinanced		Required	double	minInclusive=0

Request Parameter	Value	Optional/ Required	Data Type	Comments
FeeAmountPrepaid		Required	double	minInclusive=0
AmountFinanced		Optional	double	minInclusive=0
MarginRate		Required	double	minInclusive=0
Apr		Required	double	minInclusive=0
FinanceCharge		Required	double	minInclusive=0
PaymentAmount		Required	double	minInclusive=0
BallonAmount		Optional	double	minInclusive=0
TotalOfPayment		Required	double	minInclusive=0
TotalSalePrice		Required	double	minInclusive=0
TotalDownPayAmount		Optional	double	minInclusive=0
ContractRecievedDate		Required	DateTime	
ContractVerifyDate		Required	DateTime	
ContractVerifyBy		Required	String	Max Length 30
PromCode		Optional	String	Max Length 30
PromPaymentAmount		Optional	double	
LinkExistingCustomerInd	Y/N	Required	Enumeration	
PisInstrument		Required	String	
MaturityMarginRate		Required	double	
DueDay		Required	integer	
CrLimit		Optional	integer	
RepaymentTerm		Required	integer	
DrawTerm		Required	integer	
CapitalizedCostGro		Required	double	minInclusive=0
CapitalizedCostRed		Required	double	minInclusive=0
CapitalizedCostAdj		Required	double	minInclusive=0

Request Parameter	Value	Optional/ Required	Data Type	Comments
ResidualValue		Required	integer	
DepreciationValue		Required	integer	
RentValue		Required	integer	
CompAmount		Optional	double	
CouponOrderInd	Y/N	Optional	Enumeration	
CouponOrderDate		Optional	DateTime	
CouponOrderBy		Optional	String	
CouponFirstPaymentDate		Optional	DateTime	
CouponStartNumber		Optional	integer	
CouponNumbers		Optional	integer	
AchIndicator	Y/N	Optional	Enumeration	
SystemCreditScore		Optional	integer	
SystemCreditGrade		Optional	String	
CppCode		Optional	String	
PrepaidAmount		Optional	double	minInclusive=0
PayAmountEstimated		Optional	double	minInclusive=0
TotalPaymentEstimated		Optional	double	minInclusive=0
SalesTaxAmountEstimated		Optional	double	minInclusive=0
SecurityDepositAmount		Optional	double	minInclusive=0
FeeAmountEscrowed		Optional	double	minInclusive=0
UpFrontPercent		Optional	double	minInclusive=0
AmountUpfront		Optional	double	minInclusive=0
AmountRemaining		Optional	double	minInclusive=0
RateSpread		Optional	double	minInclusive=0
RevisePlanTerm		Optional	integer	

Request Parameter	Value	Optional/ Required	Data Type	Comments
FinalPaymentAmount		Optional	double	minInclusive=0
AdvDrawEndDate		Optional	DateTime	
RateChangeFrequencyType		Optional	String	Max Length 30
RateChangePeriod		Optional	integer	
BusinessIndicator	Y/N	Optional	Enumeration	
SigningDate		Optional	DateTime	
ProbableDeliveryDate		Optional	DateTime	
SubventionAmount		Optional	double	minInclusive=0
SubventionRateEffective		Optional	double	minInclusive=0
SubventionRentFactorEffective		Optional	double	minInclusive=0
UnderWriterUserCode		Optional	String	Max Length 30
CollectorUserCode		Optional	String	Max Length 30
IndexTypeCode		Required	String	Max Length 30
StatementPreferenceMode		Optional	String	Max Length 30
RecourseType		Optional	String	Max Length 30
RecourseReason		Optional	String	Max Length 30
RecourseAmt		Optional	double	minInclusive=0
TimeBarYears		Optional	integer	
FlexibleRepaymentInd	Y/N	Required	Enumeration	
RepaymentTypeCode		Required	String	Max Length 30
RepaymentSkipPeriod		Required	String	Max Length 30
RePaymentDate		Optional	DateTime	
RePaymentAmount		Optional	double	
NoOfPayments		Optional	integer	
SystemGeneratedIndicator	Y/N	Optional	Enumeration	

Request Parameter	Value	Optional/ Required	Data Type	Comments
Frequency		Optional	String	Max Length 30
NoOfAdjustmnet		Optional	integer	
Period		Optional	integer	
OptionType		Optional	String	Max Length 30
AdjustmnetValue		Optional	integer	
Type		Required	String	Max Length 30
SubType		Optional	String	Max Length 30
Year		Required	integer'	
Make		Required	String	Max Length 30
Model		Required	String	Max Length 30
Body		Optional	String	Max Length 30
IdentificationNumber		Optional	positiveInteger	
ValuationDate		Optional	DateTime	
ValuationSourceCode		Optional	String	Max Length 30
ValuationEdition		Optional	String	Max Length 30
ValuationSupplement		Optional	String	Max Length 30
RetailValue		Required	double	minInclusive=0
WholesaleValue		Required	double	minInclusive=0
AddOnsValue		Required	double	minInclusive=0
PayoffAmount		Required	double	
SBPCode		Required	String	Max Length 30
SSPCode		Required	String	Max Length 30
SubventionTypeCode		Required	String	Max Length 30
PROId		Required	long	
SubventionAMT		Required	double	minInclusive=0

Request Parameter	Value	Optional/ Required	Data Type	Comments
SubventionRate		Required	double	minInclusive=0
SubventionRentFactor		Required	double	minInclusive=0
BankName		Required	String	Max Length 30
BankRoutingNBR		Required	String	Max Length 30
AccountTypeCode		Optional	String	Max Length 30
AccountNBR		Required	String	Max Length 30
PaymentDay		Required	integer	
PaymentAmount		Required	double	minInclusive=0
PaymentAmountExcess		Optional	double	minInclusive=0
FrequencyCode		Optional	String	Max Length 30
StartDate		Required	DateTime	
EndDate		Optional	DateTime	
FeeIndicator	Y/N	Optional	Enumeration	
DefaultIndicator	Y/N	Required	Enumeration	
StatusCode		Required	String	Max Length 30
TypeCode		Required	String	Max Length 30
StatusCode		Required	String	Max Length 30
CheckNBR		Required	String	
CheckDate		Required	DateTime	
CheckAmount		Required	double	minInclusive=0
BankRoutingNBR		Required	String	Max Length 30
AccountTypeCode		Required	String	Max Length 30
AccountNBR		Required	String	Max Length 30
BankName		Required	String	Max Length 30
BankBranchName		Required	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
DocketCode		Required	String	Max Length 30
Comment		Required	String	Max Length 30
TypeCode		Required	String	Max Length 30
Name		Required	String	Max Length 30
Year		Required	integer	
Months		Required	integer	
Address1		Optional	String	Max Length 30
Address2		Optional	String	Max Length 30
Zip		Optional	positiveInteger	
ZipExtension		Optional	positiveInteger	
City		Optional	String	Max Length 30
StateCode		Optional	String	Max Length 30
CountryCode		Required	String	Max Length 30
Phone1		Optional	long	
Phone1Ext		Optional	integer	
Phone2		Optional	long	
Phone2Ext		Optional	integer	
Comment		Optional	String	Max Length 30
Status		Optional	String	Max Length 30
PermissionToCallPhone1	Y/N	Optional	Enumeration	
PermissionToCallPhone2	Y/N	Optional	Enumeration	
TcdCode		Optional	String	Max Length 30
ItemizationTcdCode		Required	String	Max Length 30
ContractValue		Required	double	minInclusive=0
ContractTerm		Optional	integer	

Request Parameter	Value	Optional/ Required	Data Type	Comments
Comment		Optional	String	Max Length 30
Company		Optional	String	Max Length 30
PhoneOne		Optional	long	
PhoneOneExtention		Optional	integer	
PhoneTwo		Optional	long	
PhoneTwoExtension		Optional	integer	
PolicyNumber		Optional	String	Max Length 30
PrimaryBeneficiary		Optional	String	Max Length 30
SecondaryBeneficiary		Optional	String	Max Length 30
EffectiveDate		Optional	DateTime	
ExpiryDate		Optional	DateTime	
CancelDate		Optional	DateTime	
CancelReason		Optional	String	Max Length 30
CancelTermRemaining		Optional	integer	
CancelAmountEstimated		Optional	integer	
CancelAmountReceived		Optional	integer	
CompleteRefundReceivedIndicator	Y/N	Optional	Enumeration	
InsuranceSubTypeCode		Optional	String	
Address1		Optional	String	Max Length 80
Address2		Optional	String	Max Length 80
City		Optional	String	Max Length 30
StateCode		Optional	String	Max Length 30
Zip		Optional	positiveInteger	
ZipExtension		Optional	positiveInteger	
CountryCode		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
PaymentModeCode		Optional	String	Max Length 30
PartyNumber		Optional	String	Max Length 30
AccountNumber		Optional	String	Max Length 30
ACHBankName		Optional	String	Max Length 30
ACHBankRoutingNumber		Optional	String	Max Length 30
ACHAccountTypeCode		Optional	String	Max Length 30
ACHAccountNumber		Optional	String	Max Length 30
CompanyCode		Optional	String	Max Length 30
RefundAllowedIndicator		Optional	String	Max Length 30
RefundCalcMethodCode		Optional	String	Max Length 30
ComissionAmount		Optional	double	minInclusive=0
EscrowTypeCode		Optional	String	Max Length 30
EscrowSubTypeCode		Optional	String	Max Length 30
VendorId		Optional	String	Max Length 30
EscrowRequiredIndicator		Optional	String	Max Length 30
EscrowOptoutIndicator		Optional	String	Max Length 30
EdrRule		Optional	String	Max Length 30
YearlyDisburseAmount		Optional	double	minInclusive=0
MaturityDate		Optional	DateTime	
ReferenceAccountNumber		Optional	String	Max Length 30
PropertyTaxCode		Optional	String	Max Length 30
CoverageTypeCode		Optional	String	Max Length 30
CoverageTerm		Optional	double	minInclusive=0
CoverageAmount		Optional	double	minInclusive=0
CushionAllowedIndicator		Optional	String	Max Length 30

Request Parameter	Value	Optional/ Required	Data Type	Comments
AddressNumber		Optional	String	Max Length 30
StreetName		Optional	String	Max Length 30
SuiteNumber		Optional	String	Max Length 30
PinCode		Optional	String	Max Length 30
CancelFee		Optional	double	minInclusive=0
CancelGraceDays		Optional	double	minInclusive=0
GracePeriodFeeInd		Optional	String	
ItemizationTypeCode		Optional	String	
ValueApproved		Optional	double	
ValueRequested		Optional	double	
DiscountRate		Optional	integer	
DisbursementCurrencyCode		Optional	String	Max Length 30
PaymentDate		Optional	DateTime	
PaymentRefNumber		Optional	String	Max Length 30
PrefundingStatusCode		Optional	String	Max Length 30
DisbursementType		Optional	String	Max Length 30
PlanCode		Required	String	Max Length 30
InsuranceTypeCode		Required	String	Max Length 30
InsuranceSubtypeCode		Required	String	Max Length 30
Company		Optional	String	Max Length 30
PolicyNbr		Optional	String	Max Length 30
EffectiveDate		Optional	Datetime	
Term		Required	integer	
ExpiryDate		Optional	Datetime	
PremiumAmount		Required	double	minInclusive=0

Request Parameter	Value	Optional/ Required	Data Type	Comments
Phone1		Optional	long	
Phone1Extn		Optional	integer	
Phone2		Optional	long	
Phone2Extn		Optional	integer	
PrimaryBeneficiary		Optional	String	Max Length 30
SecondaryBeneficiary		Optional	String	Max Length 30
CancelDate		Optional	Datetime	
RemainingCancelTerm		Required	integer	
EstimatedRefundAmount		Required	double	
ReceivedRefundAmount		Required	double	
CompleteRefundReceivedIndicator	Y/N	Required	Enumeration	
Comment type		Optional	String	Max Length 30
CommissionAmount		Required	double	
CommissionCode		Required	String	Max Length 30
RefundAllowedIndicator	Y/N	Required	Enumeration	
RefundCalculationMethodCode		Required	String	Max Length 30
ContractIndicator	Y/N	Required	Enumeration	
AcclId		Optional	integer	Max Length 30
InsuranceStatusCode		Required	String	Max Length 30
CancelReasonCode		Optional	String	Max Length 30
InsuranceModeCode		Required	String	Max Length 30
AcclItemizationTcdCode		Optional	String	Max Length 30
CancelFee		Required	integer	
GracePeriodFeeIndicator	Y/N	Optional	Enumeration	
CancelGraceDays		Optional	nonNegativeInteger	

Request Parameter	Value	Optional/ Required	Data Type	Comments
SubParameter		Optional	String	
Parameter		Optional	String	Max Length 30
Value		Optional	String	Max Length 30
KeyName		Required	String	Max Length 30
KeyValue		Required	String	Max Length 30
KeyName		Required	String	Max Length 30
KeyValue		Required	double	
KeyName		Required	String	Max Length 30
KeyValue		Required	Datetime	

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## 2. Appendix: Revision History

### 2.1.1 Changes for web services Patch released

Section	Segment	Field/Value	Action	Description of Change