Enterprise Application Integration

Component Interface Specification

76S

createLoanContract

Status: draft

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Last Update: 09/23/2013

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Document Control

Change Record

| Date | Author | Revision | Change Reference |
| --- | --- | --- | --- |
| 09/23/2013 | Subha Kannan | 1.0 | Initial Version - Project PJ9010 - ECHO |
| 11/3/13 | Vijay Ainapurapu | 1.1 | Updated the spec as per xsd updates done for PJ009772. |
| 11/20/13 | Vijay Ainapurapu | 1.2 | Corrected the interface spec as per XSD – optional vs. required fields and typos in the field names. |
| 01/14/2014 | Subha Kannan | 1.3 | PJ12070 – Updated to add new element loanNumber in the response. |

## Functionality

This API will allow Frontend to create and store the Installment Billing Loan contract.

## Related Documents

## Link to EAI Design Specification document

|  |  |
| --- | --- |
| Draft |  |
| Prod | [Production Design Folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=7169143&objAction=browse&viewType=1) |

## Link to Web Service design document

|  |  |
| --- | --- |
| Draft | N/A |
| Prod | [Link to Production Folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=7169143&objAction=browse&sort=name) |

## Link to XSDs

|  |  |
| --- | --- |
| Draft |  |
| Prod | [Production Schema Folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=7173631&objAction=browse&viewType=1) |

## Component Request/Reply/Structures

These structures will be exposed using SOAP/HTTP to the clients.

## Request Message

## createLoanContract

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| createLoanContractInfo | Information  This structure contains the choice structures used to create the Contract Document |  | Structure |  | Choice |
| transactionReferenceInfo | Structure provides transactional reference information |  | Structure |  | Required |

## createLoanContractinfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| orderInfo | Structure provides Order information – used only by National Retailers |  | Structure |  | Conditionally Required |
| contractInfo | Structure provides contract information – used by Sprint’s internal callers of this API. |  | Structure |  | Conditionally Required |

### orderInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| orderId | Order ID for the Order | 28 | String |  | Required |
| vendorCode | Vendor Code for the Order | 2 | String |  | Required |
| salesTax | Sales Tax collected by the Vendor | 10,2 | Decimal |  | Optional |

### contractInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| loanDetailInfo | Strcuture Indicate Loan Detail Information |  | Structure |  | Required |
| accountInfo | Structure provides Account Information |  | Structure |  | Required |
| salesDetailInfo | Structures indicates sales Detail information |  | Structure |  | Required |
| contractTemplateMappingInfo | Structure containing information for mapping the Contaract Template to be used for the PDF document. |  | Structure |  | Required |

### loanDetailsInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| loanNumber | Loan number of the loan / Account number of WF | 20 | String |  | Optional |
| loanAmount | Amount of the loan Eg. 545.37 or 235.00 | 9,2 | Decimal |  | Required |
| loanDownPayment | Loan Down Payment Eg 500.00 | 9,2 | Decimal |  | Required |
| annualPercentageRate | APR for the Loan – a value of 0.00 will be sent for this Release | 9,2 | Decimal |  | Required |
| financeCharge | Finance charges – a value of 0.00 will be sent for this Release | 9.2 | Decimal |  | Required |
| totalPaymentAmount | Total of all payments including finance chanrges. | 9,2 | Decimal |  | Required |
| installmentAmount | Monthly payment amount of the loan E.g 24.53 or 23.00. This payment amount is the loan amount/loan term but rounded up. If the loan amount is $480 and the term is 24 then the amount will be $20.00 | 9,2 | Decimal |  | Required |
| lastInstallmentAmount | The final payment amount might be different from the regular equal monthly payment if the loan amount does not divide equally into term. If the loan amount is divisible equally by its term this field will not be sent. E.g: If the loan amount is $480 and the loan term is 24 then ther loan will equally divide and there will be no unequalFinalPaymentAmount. If the loan amount is $482 Term is 24 then $482/24 = 20.083. In this case the equalMonthlyPaymentAmount will 9be 20.09 and the unequalFinalPaymentAmount will be 481 - (20.09\*23) =$19.93 | 9,2 | Decimal |  | Required |
| loanTerm | Loan term amount in months- Eg 24 | 2 | Int |  | Required |
| loanPaymentStartDate | Loan start date: Date of firstpayment of the loan YYYY-MM-DD |  | Date | YYYY-MM-DD Format | Required |
| loanPaymentEndDate | Loan payment end date YYYY-MM-DD |  | Date | YYYY-MM-DD format | Required |
| loanDate | The date the loan was originated YYYY-MM-DD |  | Date | YYYY-MM-DD format | Required |

### accountInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| ban | Billing Account Number | 9 | Int |  | Optional |
| subscriberId | Subscriber ID | Min Length -8  Max Length -20 | String |  | Optional |
| nameInfo | Structure Indicates the name of the customer signing the contract |  | Structure |  | Required |
| customerAddressInfo | Structure to hold the Address information |  | Structure |  | Required |
| phoneNumber | Contact phonenumber | 10 | String |  | Optional |
| emailAddress | Email Address of the Customer – where the contract can be emailed to if required. | 256 | String |  | Optional |

### nameInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| firstName | First Name of the cusstomer | Max Length -50 | String |  | Optional |
| lastBusinessName | Last Name of the customer and Business name if it’s a Business | Max Length -50 | String |  | Required |

### customerAddressInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| addressLine1 | Address Line 1 of the billing Address | Max Length -100 | String |  | Required |
| addressLine2 | Address Line2 of the Billing address | Max Length -100 | String |  | Optional |
| cityName | CityName of the Billing Address city | Max Length -50 | String |  | Required |
| stateCode | State: Billing Address | 2 | String |  | Required |
| zipCode | zip code of the billing address | Max Length -10 | String |  | Required |

### salesDetailInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| cashPrice | Cash Price, Equipmet MSRP | 9,2 | Decimal |  | Required |
| salesTaxInfo | Structure containing Sales Tax information |  | Structure |  | Choice |
| cashPricePlusSalesTax | Cash Price with Sales Tax | 9,2 | Decimal |  | optional |
| cashDownPayment | Loan DownPayment | 9,2 | Decimal |  | Required |
| documentStampTax | This is for Florida document Stamp tax. It is optional. For Non Florida state there will be no tax and this field will not be sent | 9,2 | Decimal |  | Optional |
| loanItemDescription | Description of the item for which the loan is being given | 100 | String |  | Required |

### salesTaxInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| estimatedSalesTax | Cash Price with Sales Tax | 9,2 | Decimal |  | Conditionally Required |
| actualSalesTax | Actual Sales Tax collected | 9,2 | Decimal |  | Conditionally Required |

### contractTemplateMappingInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| contractMappingAddress | Structure containing Address information for contract template mapping |  | Structure |  | Choice |
| storeInfo | Structure containing Store information |  | Structure |  | Choice |

### contractMappingAddress

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| addressLine1 | Address Line 1 of the billing Address | Max Length -100 | String |  | Required |
| addressLine2 | Address Line2 of the Billing address | Max Length -100 | String |  | Optional |
| cityName | CityName of the Billing Address city | Max Length -50 | String |  | Required |
| stateCode | State: Billing Address | 2 | String |  | Required |
| zipCode | zip code of the billing address | Max Length -10 | String |  | Required |

### storeInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| storeNumber | store number of the retail store | 40 | String |  | Required |
| storeRepId | Store Rep ID (eg. RMS login id) will be passed. This field is just for reporting purposes | 255 | String |  | Optional |
| storeAddressInfo | store address information |  | Structure |  | Required |

### storeAddressInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| addressLine1 | Address Line 1 of the billing Address | Max Length -100 | String |  | Required |
| addressLine2 | Address Line2 of the Billing address | Max Length -100 | String |  | Optional |
| cityName | CityName of the Billing Address city | Max Length -50 | String |  | Required |
| stateCode | State: Billing Address | 2 | String |  | Required |
| zipCode | zip code of the billing address | Max Length -10 | String |  | Required |

### transactionReferenceInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| saveContractInd | Indicates if the contract just needs to be generated (Pre-Contract) or generated and saved. If nset to false - the contract will be generated else it will be generated and save |  | Boolean | true/false | Required |
| languageCode | language in whiich the ESA document will be printed. If the language is English, then the value = ENG. If the language is Spanish the language code = SPA. For PJ9010, if the value of "SPA" is passed, the English version of the document will be generated. | Max Length-3 | String | ENG, SPA | Required |
| transactionDate | The date of the transaction. YYYY-MM-DD format |  | Date | YYYY-MM-DD format | Required |
| transactionTime | The time of creation HH:MM:SS format |  | Time | HH:MM:SS format | Required |
| applicationName | Application Name ex :,For RMS it will be RHS XBS for Affiliates | Max Length -50 | String |  | Required |
| transactionNumber | This is the transaction Id or order Id in the front end. It will be optional for Precontract and will be sent when the contract is created. | Max Length -20 | String |  | Optional |
| channelType | Indicates Channel Type | Max Length -30 | String | Direct Retail’ for RMS  “PR” for Preferred Retailers  “Web” for Web/mShop  NR for National Retailers | Required |
| loanSigPadImage | In the case of pre-Contract do not send the signature. |  | base64Binary |  | Optional |
| eSignatureFillName | Electronic Signature captured on the Web | 80 | String |  | Optional |
| eSignatureInitials | Electronic Initials captured on the Web | 3 | String |  | Optional |

## 

## Response Message

## createLoanContractResponse

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| resultMessages | Result Message | Max Length -100 | String |  | Required |
| resultCode | Result Code | Max Length- 5 | String |  | Required |
| outputPDF | Indicates Output Contract PDF |  | Base64Binary |  | Required |
| loanNumber | Indicates the loanNumber | Max Length 20 | String |  | Required |

## EAI Connectivity

## MQ Series Connectivity - NA

|  |  |  |
| --- | --- | --- |
| Transaction Name | Request Queue Name | Reply Queue Name |
| N/A |  |  |

## MQ BT Parameters - NA

|  |  |  |  |
| --- | --- | --- | --- |
| Recommended Timeout | Minimum Timeout | Max Timeout | Persistence Allowed |
| N/A |  |  |  |

* If a timeout value is sent that does not fall within the minimum and maximum values, the error returned will be “system\_exception”.
* If the persistence value is set and the BT parameters do not allow persistence, the error returned will be “system\_exception”.
* Timeout values are in seconds.
* Persistence value is 0 or 1. (0 = No, 1 = Yes)

## Header Version Supported

|  |  |
| --- | --- |
| Header Version(s) Supported | Link/Location of the Header Format |
| V2 | <https://doc-share.corp.sprint.com/livelink/llisapi.dll/36969724/XML_MQ_Header_Standards.doc?func=doc.Fetch&nodeid=36969724> |
|  |  |

## XML MQ Header XSD (EAIMqMessageHeader.xsd)

|  |
| --- |
| <https://doc-share.corp.sprint.com/livelink/llisapi.dll/36148559/EAIMqMessageHeader.xsd?func=doc.Fetch&nodeid=36148559> |

## Error Conditions

[Refer to table of Standard Exceptions](https://doc-share.corp.sprint.com/livelink/llisapi.dll/8225947/Table_of_Standard_Exceptions.doc?func=doc.Fetch&nodeid=8225947)

## API Specific Error Conditions

## SOAP/HTTP

|  |  |
| --- | --- |
| Name | Description |
| Deployed Service Name | LoanInfoService |
| Operation Name | createLoanContract |

## Schema & WSDL

|  |  |
| --- | --- |
| Draft Schema & WSDL | WSDL :  Schema : See section 1.2 for link to draft schema |
| Production Schema & WSDL | See section 1.3 |

## EAI Web Service User Guide

|  |
| --- |
| <https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=45966856&objAction=download> |

## Web Service Header XSD (WSMessageHeaderV2.xsd)

|  |
| --- |
| <https://doc-share.corp.sprint.com/livelink/llisapi.dll/33326571/WSMessageHeaderV2.xsd?func=doc.Fetch&nodeid=33326571> |

## Error Conditions

[Refer to table of Standard SOAP Faults in the Web Service Design Standards](https://doc-share.corp.sprint.com/livelink/llisapi.dll/24201138/EAI_Web_Service_Design_Standards.doc?func=doc.Fetch&nodeid=24201138)

## API Specific Error Conditions

N/A