Enterprise Application Integration

Component Interface Specification

76S,V50

checkLoanEligibilty

Status: draft

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Table of Content

[1 Functionality 3](#_Toc367450896)

[2 Related Documents 3](#_Toc367450897)

[2.1 Link to EAI Design Specification document 3](#_Toc367450898)

[2.2 Link to Web Service design document 3](#_Toc367450899)

[2.3 Link to XSDs 3](#_Toc367450900)

[3 Component Request/Reply/Structures 4](#_Toc367450901)

[3.1 Request Message 4](#_Toc367450902)

[3.1.1 checkLoanEligibility 4](#_Toc367450903)

[3.1.1.1 accountInfo 4](#_Toc367450904)

[3.1.1.1.1 accountTypeInfo 4](#_Toc367450905)

[3.1.1.2 orderInfo 5](#_Toc367450906)

[3.1.1.2.1 salesChannelInfo - Note: This is currently not supported 5](#_Toc367450907)

[3.1.1.2.2 equipmentItemList 5](#_Toc367450908)

[3.1.1.2.2.1 equipmentItemInfo 5](#_Toc367450909)

[3.2 Response Message 6](#_Toc367450910)

[3.2.1 checkLoanEligibilityResponse 6](#_Toc367450911)

[3.2.1.1 loanEligibilityInfo 6](#_Toc367450912)

[3.2.1.1.1 equipmentEligibilityInfoList 7](#_Toc367450913)

[3.2.1.1.1.1 equipmentEligibilityInfo 7](#_Toc367450914)

[3.2.1.1.2 accountloanInfo 7](#_Toc367450915)

[3.2.1.1.2.1 loanSubscriberList 7](#_Toc367450916)

[3.2.1.1.2.1.1 loanSubscriberInfo 8](#_Toc367450917)

[4 EAI Connectivity 8](#_Toc367450918)

[4.1 MQ Series Connectivity - NA 8](#_Toc367450919)

[4.2 MQ BT Parameters - NA 8](#_Toc367450920)

[4.3 Header Version Supported 8](#_Toc367450921)

[4.4 XML MQ Header XSD (EAIMqMessageHeader.xsd) 8](#_Toc367450922)

[4.5 Error Conditions 9](#_Toc367450923)

[4.6 API Specific Error Conditions 9](#_Toc367450924)

[5 SOAP/HTTP 9](#_Toc367450925)

[5.1 Schema & WSDL 9](#_Toc367450926)

[5.2 EAI Web Service User Guide 9](#_Toc367450927)

[5.3 Web Service Header XSD (WSMessageHeaderV2.xsd) 9](#_Toc367450928)

[5.4 Error Conditions 9](#_Toc367450929)

[5.5 API Specific Error Conditions 9](#_Toc367450930)

Document Control

Change Record

| Date | Author | Revision | Change Reference |
| --- | --- | --- | --- |
| 08/28/2013 | Subha Kannan | 1.0 | Initial Version - Project ECHO |
| 9/24/2013 | Subha Kannan | 1.1 | PJ9010 CR 20 -Modified response to have equipmentEligibilityInfoList as manadatory and added new elements loanFirstInstallmentDueDate and loanLastInstallmentDueDate,itemCategoryDescription . Added new element in the request retrieveAllEquipmentInd as a choice element. |
| 10/2/2013 | Subha Kannan | 1.2 | PJ9010 CR 24 - Modified checkLoanEligibilityRequest to remove retrieveAllEquipmentInd and added equipmentWithDeviceInfo as a choice element in orderInfo. Added new element orderId as a choice in accountInfo |
| 10/18/2013 | Subha Kannan | 1.3 | Modified request to add a new element equipmentWithDeviceInfoList and modified equipmentWithDeviceInfo structure to more than 1 and added new element vendorCode .Added new element deviceInfo in the equipmentEligibiltyInfo |
| 12/11/2013 | Subha Kannan | 1.4 | IM2154549 Updated creditClass maxLength to 5 from 3 . |
| 12/12/2013 | Subha Kannan | 1.5 | PJ9772 CR 20 – Updated the loanNumber in the response from type int to String |
| 01/14/2014 | Subha Kannan |  | PJ12070 – Updated to add new element fetchEstimatedTax in the request and new elements estimatedTax and floridaStampTax in the response. |

## Functionality

This API will allow Frontend to check Installment Billing eligibility based Account Type/ Account Sub Type and or credit class.

## 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

## checkLoanEligibility

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| accountInfo | Calling applicationsr can provide Account Type and Account Sub Type to check eligibility for a Loan. |  | Structure |  | Required |
| orderInfo | Calling applications can list of ITEM\_IDs in input to this service to check Loan eligibility for each of the SKUs. |  | Structure |  | Optional |

### accountInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| ban | Billing account number | 9 | Integer |  | Choice |
| Mdn | One of the MDNs to identify a BAN | 10 | String |  | Choie |
| subscriberId | Subscriber Number to identify a BAN | Min 8  Max 20 | String |  | Choice |
| accountTypeInfo | Structure to provide Account Type and Account Sub Type .  Note: If accountTypeInfo is provided, then orderID should not be provided. |  | Structure |  | choice |
| orderId | Indicates OVM Order Id . This field is applicable only for required for National retailer or the partner who perfor creditCheck through OVM.  NOTE: If orderId is provided then accountTypeInfo should not be provided. | Max :28 | Structure |  | Choice |
| creditClass | Indicates the credit class  **Note: creditClass is required if accountTypeInfo is provided in the request. If orderId is provided, creditClass is optional** | Min 1  Max 5 | String |  | Optional |
| vendorCode | Indicates OVM vendorCode.  **Note: VendorCode is required if orderId is passed in the request**. | length 2 | String | BY – for Best Buy | Optional |

### accountTypeInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| accountType | Indicates account type. | 1 | String |  | Required |
| accountSubType | Indicates accountSub type | 1 | String |  | Required |

### orderInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| salesChannelInfo | Accepts salesChannelCode or dealerCode as input.  **~~Note: This is currently not supported~~** |  | Structure |  | Optional |
| equipmentItemList | An array of equipmentItemInfo structures. |  | Structure |  | Choice |
| equipmentWithDeviceInfoList | An array of equipmentWithDeviceInfo structures |  | Structure |  | Choice |
| orderType | Indicates OrderType  **Note: This is currently not supported** | Max 16 | String |  | Optional |
| fetchEstimatedSalesTax | Indicates to fetch estimated sales tax for the equipment sent in the request. |  | Boolean |  | Optional |

### salesChannelInfo - Note: This is currently not supported

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| salesChannelCode | Sales channel code of the caller. Sales channel code is based on the dealer. i.e., a Web and RMS dealer using FDT will have different sales channels based on their dealer code though transaction comes from FDT. | Max length 4 | String |  | Choice |
|  |  |  |  |  |  |
| dealerCode | Dealer code assigned to the dealer performing the transaction. This dealer code will be used to derive sales channel assigned to the dealer which is used in retrieving pricing info. | Max Length 8 | String |  | Choice |
|  |  |  |  |  |  |

### equipmentItemList

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| equipmentItemInfo | Contains itemId | Max:200 | Structure |  | Choice |

### equipmentItemInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| itemId | ITEM\_ID to be checked for LOAN eligibility. No validation will be performed to check if input itemId is valid ITEM\_ID defined in Ensemble. If an ivalid itemId is provided, then no data will be returned for that particular itemId. | 15 | String |  | Required |
| srp | Indicates SRP price of the device | 10,2 | Decimal |  | Optional |
| quantity | Indicates the quantity |  | Int |  | Required |
| creditAmount | Indicates Buyback credit /immediate discount. | 10,2 | decimal |  | Optional |

### equipmentWithDeviceInfoList

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| equipmentWithDeviceInfo | If no itemid (SKU) available, and equipment information needs to be feteched using ESN, use this structure. ~~This is restricted to only one equipment.~~ | Min 1  Max 5 | Structure |  | Required |

### equipmentWithDeviceInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| deviceInfo | Indicates Device Information | 1 | Structure |  | Required |
| srp | Indicates SRP price of the device | 10,2 | Decimal |  | Optional |
| quantity | Indicates the quantity |  | Int | Default to 1 | Required |
| creditAmount | Indicates Buyback credit /immediate discount. | 10,2 | decimal |  | Optional |

deviceInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| esnMeidHex | Indicates ESN MEID in Hex format Device Information | 1 | Strucure |  | Required |
| esnMeidDec | Indicates SRP price of the device | 10,2 | Decimal |  | Optional |

## Response Message

## checkLoanEligibilityResponse

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| loanEligibilityInfo | Structure containing loan eligibility information based on the given input. |  | Structure |  | Required |

### loanEligibilityInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| accountType | Account Type echoed from input. | 1 | String |  | Required |
| accountSubType | Account Sub Type echoed from input. | 1 | String |  | Required |
| loanEligibilityInd | This flag will be set to true only if accountLoanEligiblityInd is true, creditClassEligibilityInd and account is eligible for Loan |  | Boolean |  | Required |
| accountLoanEligibilityInd | This indicator will be set to true if input AT/ST combination is eligible for loan . |  | Boolean |  | Required |
| creditClassEligibilityInd | This indicator will be set to true if input AT/ST combination is eligible for loan . |  | Boolean |  | Required |
| loanMaxLimit | Indicates Max limit of loan allowed in the account |  | Int |  | Required |
| equipmentEligibilityInfoList | Structure containing an array of equipmentInfo structures. |  | Structure |  | Optional |
| accountloanInfo | if a valid and active subscriberNo is provided in input, then this structure will be returned. |  | Structure |  | Optional |

### equipmentEligibilityInfoList

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| equipmentEligibilityInfo | Contains itemId | Max:200 | Structure |  | Required |

### equipmentEligibilityInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| itemId | Device SKU |  | String |  | Required |
| itemIdEligibilityInd | Indicates The item is eligible for LOAN. |  | Boolean |  | Required |
| srp | Indicates the SRP price for the device that is eligible for Loan | 10,2 | Decimal |  | Required |
| installmentAmt | Indicates monthly Installment Amount for Loan eligible device. | 10,2 | Decimal |  | Optional |
| lastInstallmentAmt | Indicates the last month installment amount for loan eligible device | 10,2 | Decimal |  | Optional |
| loanDownPayment | Indicates the loan Down Payment .This will be adjusted if creditAmount is sent | 10,2 | Decimal |  | Optional |
| loanTerm | Indicated LoanTerm, The value will be 24 |  | Int | 24 | Optional |
| loanFirstInstallmentDueDate | Indicates First Installment Loan Date |  | Date |  | Optional |
| loanLastInstallmentDueDate | Indicates Last Installment Loan Date |  | Date |  | Optional |
| itemCategoryDescription | Indicates Device category Description | 30 | String |  | Optional |
| deviceInfo | Indicates Device MEID information. This structure will be sent only if the deviceInfo is sent in the request. |  | Structure |  | Optional |
| estimatedSalesTax | Estimated Sales Tax for the device sent in the request.  Scenarios :If fetchEstimatedSalesTax is set to true, this element will be returned.  if ban is send in the request , if the ban is tax excempted ,this value will not be returned. | 10,2 | Decimal |  | Optional |
| floridaStampTax | Indicates Florida Stamp tax. The floridaStampTax will be returned only if dealer code passed in the request belong to state Florida | 9.2 | Decimal |  | Optional |

deviceInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| esnMeidHex | Indicates ESN MEID in Hex format Device Information | 1 | Strucure |  | Required |
| esnMeidDec | Indicates SRP price of the device | 10,2 | Decimal |  | Optional |

### accountloanInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| openLoanCount | Indicates Open loan count on the give account |  | int |  | Required |
| loanSubscriberList | Strcuture indicates the subscriber list that have loan |  | Structure |  | Optional |

### loanSubscriberList

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| loanSubscriberInfo | Contains Subscriber Information |  | Structure |  | Required |

loanSubscriberInfo

| XML Tag Name / Field Name | Description / Notes | Length | Type | Values | Req/Opt/Choice |
| --- | --- | --- | --- | --- | --- |
| subscriberId | Subscriber ID | Min 8  Max 20 | String |  | Required |
| Mdn | MDN | 10 | String |  | Required |
| loanNumber | Indicates Loan Number | Max: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 | checkLoanEligibility |

## 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