Enterprise Application Integration

Component Interface Specification

76S

lookupGroupAndEligibility V1

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# Document Control

## Change Record

| Date | Author | Revision | Change Reference |
| --- | --- | --- | --- |
| 11/26/2013 | Suneel Pathipati | 1.0 | Initial Version, PJ012070 RAMBO |
| 12/05/2013 | Suneel Pathipati | 1.1 | Added following new fields in request under joiningSubscriberInfo.   * ban * accountTypeInfo   Added following new fields in response under eligibilityInfoForInputSub   * canJoinInputGroupInd * reasonCannotJoinInputGroup   Changed canJoinGroupInd to openGroupInd in response under groupInfo structure. |
| 12/12/2013 | Suneel Pathipati | 1.2 | Added API functionality. |
| 12/14/2013 | Suneel Pathipati | 1.3 | discountTierList in response is changed from required to optional |
| 12/17/2013 | Suneel Pathipati | 1.4 | Added overrideCode field in input |
| 12/20/2013 | Suneel Pathipati | 1.5 | Added deviceItemId in response. |
| 01/08/2014 | Suneel Pathipati | 1.6 | Added matrix showing how to call the API for different scenarios. |
| 01/02/2014 | Suneel Pathipati | 2.0 | Added roleName field in input to accept the user role of the calling application, which can be used to override certain rules in determining subscriber’s eligibility to join a group. |
| 01/14/2014 | Suneel Pathipati | 2.1 | Added orderTypeInfo in input and participationFeeDetails in response. Updated functionality section with Framily participation program rules. |

# Functionality

This document uses RAMBO as the program name, however the market name for the program is Sprint Framily. The words RAMBO and Sprint Framily will be used interchangeably throughout the document. This API can be called in different modes. The primary use case for this API is, to lookup current RAMBO group information based on input groupId or subscriber/ban identifier.

Following are the different modes this API can be called.

1. Mode#1: Lookup RAMBO group information by providing one of the fields under groupIdentifierInfo structure. The corresponding response structure for this input is, groupList.groupInfo.
   1. If BAN is provided in input, only group information for all groups under the BAN will be returned. The other two modes of API use will not be supported if BAN is input.
   2. If groupId is provided in input, then that particular group information will be returned.
   3. If subscriberId or mdn is provided, then groupId for the subscriber will be retrieved first and then using groupId as key, group information will be retrieved.
2. Mode#2: Check subscriber’s eligibility to participate in a RAMBO program by providing subscriber identifier in subscriberJoiningGroup.joiningSubscriberInfo. If Mode#1 and Mode#2 are executed together, then, in addition to checking if input subscriber can participate in RAMBO program, this API will check if input subscriber can join the group identified in Mode#1. Response structure related to the input joiningSubscriberInfo is eligibilityInfoForInputSub.
   1. If accountTypeInfo is provided, then, the request is considered to be for a new BAN, and validations will be done just based on accountType, accountSubType.
   2. If ban is provided, then the request is considered to be for a new subscriber under the ban provided in input, and validations will be done accordingly.
   3. If subscriber is provided, then validations will be done based on the input subscriber, and the BAN input subscriber belongs to.
   4. If overrideCode value is ‘A’, then all the validations will be skipped, and canJoinGroupInd in response will be returned as true if subscriber is eligible for pariticpating in a RAMBO program.
   5. If applicationUserRole is provided in input, then based on the role provided certain rules for determining subscriber’s eligibility to join a group will be overridden. (e.g., Manager Role can override all rules, Super visor can override certain rules, special role can override few specific rules…etc.,)
3. Mode#3: groupActionCode to request a new groupId. This can be done with other 2 Modes. If a new groupId is not requested, but, input groupId is maxed out, then a new groupId will be generated and returned in response. The corresponding output structure is, groupList.groupInfo.

If joiningSubscriber already belongs to a group which is same as the group identified by groupIdentifier, then canJoinGroupInd in response will be set to ‘false’, and reason text will be populated with appropriate message.

## How to interpret the flags in response:

If API is called with joiningSubscriber and groupId from different BAN.

* + If in response discountEligibleFlag is false, then subscriber cannot participate in Sprint Framily program.
  + If in response discountEligibleFlag is true, then subscriber can participate in Sprint Framily program and can join any open group from subscriber’s own BAN.
  + If in response discountEligibleFlag is true, groupOpenInd is false, then FE will have to check if subscriber can join any other group that customer can provide.
  + If in response discountEligibilityFlag is true, groupOpenInd is true, and canJoinInputGroupInd is false, then subscriber cannot join any group from different BANs. So, option to enter groupId should be disabled. The only options in this scenario should be, either allowing subscriber to join a group from same BAN, or creating a new groupId.

Below is a reference matrix showing what the client behavior should be based on response flags.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Response Indicators** | | | **Client behavior** |
| **Mode** | **groupOpenInd** | **discountEligibilityFlag** | **canJoinInputGroupInd** |
| A – Listing ban’s groups | false | N/A | N/A | Client should set the closed group id to red font. |
| A – Listing ban’s groups | true | N/A | N/A | Client should display the opened groups above the closed groups. |
| B – Join current ban’s groups. | frue | true | true | Can apply the joining to the requested group ID. |
| B – Join current ban’s groups. | false | N/A | N/A | Client should display a message: “*Selected group is at max limit, please choose another group”.*  User will able to choose another group or option. |
| B – Join current ban’s groups. | true | false | false | Client should display appropriate ineligibility message or use eligibilityInfoForInputSub.ineligibleReason from API:  “The subscriber is not eligible for the Sprint Framily Plan, click Cancel to keep current plan or Previous Step to select different plan.”  Do not allow Framily Plan to be selected on the subscriber. |
| B – Join other ban’s groups. | true | true | true | Can apply the joining to the requested group ID. |
| B – Join other ban’s groups. | true/false | false | true/false | Client should display appropriate ineligibility message or use eligibilityInfoForInputSub.ineligibleReason from API:  “The subscriber is not eligible for the Sprint Framily Plan, click Cancel to keep current plan or Previous Step to select different plan.”  Do not allow Framily plan for the subscriber again. |
| B – Join other ban’s groups. | false | true | true | Client should display appropriate ineligibility message or use groupInfo.ineligibleReason from API:  “Group ID <group number> is at maximum line limit, inform customer they will need a new Group ID.”  A new group ID will also be returned under the field “newGroupId” in API response which can be used by client if customer chose to proceed with a new groupId. And this new groupId can be used for additional subscribers under the same BAN within the same transaction. |
| C – generate new group | true | true | true | Can apply the joining to the new group. |
| C – generate new group | true | false | false | Client should display appropriate ineligibility message or use eligibilityInfoForInputSub.ineligibleReason from API:  “The subscriber is not eligible for the Sprint Framily Plan.”  Do not show Framily plan to subscriber |

## Participation Fee Details:

Subcribers’ participating in Sprint Framily program may incur an additional fee of $15 (can be variable) per month if they do not meet certain criteria.

* + If subscriber is not on IB and if Subscriber is currently on a subsidized equipment contract (i.e., subscriber is not tier#2 eligible) and would like to participate in RAMBO program, then there will be a monthly charge subscriber will be charged until subscriber is upgrade eligible. This fee information will be returned under participationFeeDetails in API response.

## Below table shows what inputs can be passed for different scenarios:

### Required inputs with orderTypeInfo:

Following table shows what inputs are required for different order types. If orderTypeCode is provided in input, API will perform validations for presence of appropriate fields as shown in below table.

* A new groupId generated using this API cannot be retrieved by sending the groupId in groupIdentifierInfo until the groupId is assigned to a subscriber and the transaction is saved/completed.
* After generating a new groupId, for subsequent transactions, the newly generated groupId should not be passed on this API request while checking a subscriber’s eligibility to participate in Framily program.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group** | **Input fields/structures** | **orderTypeCode** | | | |
| **NEW** | **ADD\_ON** | **UPGRADE** | **SERVICE** |
| Existing | orderTypeInfo.orderTypeCode | N | A | U | S |
| groupIdentifierInfo.groupId | X | X | X | X |
| joiningSubscriberInfo | AT/ST/CC or NA | ban | subscriber identifier | subscriber identifier |
| groupActionCode | J | J | J | J |
| New, First Subscriber | groupIdentifierInfo.groupId | N/A | N/A | N/A | N/A |
| joiningSubscriberInfo | AT/ST/CC or NA | ban | subscriber identifier | subscriber identifier |
| groupActionCode | G | G | G | G |
| New, Second Subscriber onwards | joiningSubscriberInfo | Not needed | Not needed | subscriberIdentifer | subscriber identifier |

### To Join Existing Group:

* + A valid groupId or MDN or SubscriberNo should be provided in groupIdentifierInfo.
  + groupActionCode should be set to J. If input groupId is already maxed out, then a new groupId will be generated and returned in response.

|  |  |  |  |
| --- | --- | --- | --- |
| **BAN** | **Subscriber** | **joiningSubscriberInfo** | **Comments** |
| New | New | AT/ST can be provided.  If AT/ST not available for NRs it is ok to not provide as long as it is consumer/IL account. | * Provide any valid groupId as input to check if input groupId is open. New subscriber on a new account can join any group within 14 days of BAN and Subscriber Activation Date. |
| Existing | New | ban | * New Subscriber can join any open group from the subscriber’s BAN. * New Subscriber can join any other group not from the BAN, only if BAN is less than 15 days old. |
| Existing | Existing | subscriberId or mdn | * If subscriber is qualified for participating in RAMBO then subscriber can join any open group from the BAN. * Subscriber can also join any other group only if BAN is less than 15 days old. |

### Generate New Group:

* + A new groupId should be requested only when needed. Current solution supports only up a certain limit of groupIds to be generated, so, it is recommended to request new groupId only as needed.
  + groupIdentifierInfo – can be provided, but because intention here is to generate a new group, this structure should not be provided.
  + groupActionCode should be set to G.
  + After generating a groupId#1 for subscriber1 on BAN1, that groupId can be used for all eligible subscribers on BAN1 until the limit is reached. While checking subscriber’s eligibility to participate in Framily for Subscriber#2 onwards, do not pass groupId#1 when this API is called to check eligibility for Subscriber#2.

|  |  |  |  |
| --- | --- | --- | --- |
| **BAN** | **Subscriber** | **joiningSubscriberInfo** | **Comments** |
| New | New | Not needed | * A new groupId can be requested by just passing groupActionCode |
| Existing | New | ban should be provided. | * A new groupId will be returned. |
| Existing | Existing | subscriberId or mdn should be provided | * A new groupId will be returned. |

#### Rules for Joining Existing or Creating New Groups:

Below table illustrates when a subscriber can join existing group on same BAN, group on different BAN and also request new group.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BAN** | **Subscriber** | **Join Same BAN’s Group** | **Join Different BAN’s Group** | **Create a new Group.** |
| New | New | Y | Y | Y |
| <=14 | New, Existing Subscriber Changing Plan | Y | Y | Y |
| >14 | New, Existing Subscriber Changing Plan | Y | N | Y |

**Example:**

In following example two BANs BAN1, BAN2 are older than 14 days. And BAN3 is less than 14 days.

* + BAN1 – has two subscribers Sub1, Sub2 on Group A, and Sub3 on Group B.
  + BAN2 – has two subscribers Sub4, Sub5 on Group B
  + BAN3 – has two subscribers Sub31, Sub32 created in last 14 days, Sub33 more than 14 days old (Sub32 moved from a different BANX to BAN3 after BAN3 was created). None of Sub 31, Sub32 and Sub33 are on Framily Plan.
  + Group A and Group B in above example are still open.
  + All of the subscribers in above example are assumed to be qualified to participate in RAMBO.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BAN** | **Sub** | **Group A** | **Group B** | **new Group** |
| BAN1 | Sub1 | N | Y | Y |
| BAN1 | Sub2 | N | Y | Y |
| BAN1 | Sub3 | Y | N | Y |
| BAN2 | Sub4 | N | N | Y |
| BAN2 | Sub5 | N | N | Y |
| BAN1 | New Sub6 | Y | Y | Y |
| BAN2 | New Sub7 | N | Y | Y |
| BAN3 | Sub31 | Y | Y | Y |
| BAN3 | Sub32 | Y | Y | Y |
| BAN3 | Sub33 | N | N | Y |
| BAN3 | New Sub34 | Y | Y | Y |

## Restricted Usage for users coming through 7UL:

This API is exposed via 7UL, and only a very limited set of data will be exposed through 7UL based on the consumerId received in the input.

Following is the list of fields exposed via 7UL based on the consumerId ‘DIGITAS’.

* + groupId
  + groupOpenInd
  + currentSubscriberCount
  + maxSubscriberLimit
  + groupCurrentTierDiscount

# 

# Related Documents

## Link to EAI Design Specification 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 Web Service 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 / WSDLs

|  |  |
| --- | --- |
| 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 EAI User Guides and Helps

|  |  |
| --- | --- |
| Final | [Link to Folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objid=46418218&objaction=open); documents, folders and shortcuts include:   * EAI Web Service User Guide * API URLs spreadsheet * Production interface folder * Production schema folder * XML MQ Header Standards * Web service and WebSphere MQ coding examples |

# Component Request/Reply/Structures

|  |  |
| --- | --- |
| **Format / Transport** | SOAP / HTTP |
| **Encoding** | UTF-8 |

## Request Message

### lookupGroupAndEligibility

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| groupIdentifierInfo | Calling applications can provide one of the identifiers in this structure to get group information. Using the identifier provided in this structure groupId will be retrieved and using that groupId additional information for that group will be returned.  Either groupIdentifierInfo or subscriberJoiningGroup are mandatory. | N/A | Structure |  | Optional/  Conditional |
| subscriberJoiningGroup | Structure containing Subscriber Identifier and a flag requesting new group.  Either groupIdentifierInfo or subscriberJoiningGroup are mandatory. | N/A | Structure |  | Optional/  Conditional |

Table 1 – Field in lookupGroupAndEligibility

#### groupIdentifierInfo

| **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 |  | Choice |
| subscriberId | Subscriber Number to identify a BAN | 20 | String |  | Choice |
| groupId | GroupID to uniquely identify a group | 15 | String |  | Choice |

Table 2 – Fields in groupIdentifierInfo

#### subscriberJoiningGroup

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| orderTypeInfo | Structure containing order type information of the order for which this API is called.  Refer to Section#2 above to understand what additional inputs are required with orderTypeInfo. | N/A | Structure |  | Optional |
| joiningSubscriberInfo | Using this structure calling application can provide the subscriber identifier who wants to join an existing Group identified by the input groupIdentifierInfo.  One of joiningSubscriberInfo and groupActionCode is mandatory. | N/A | Structure |  | Conditional |
| groupActionCode | This field has two valid values.  G – Generate New Group  J – Join A new Group  If input groupId already has max allowed number of subscribers, then a new groupId will be generated and returned in response.  One of joiningSubscriberInfo and groupActionCode is mandatory.  If groupIdentifierInfo, joiningSubscriberInfo are provided, but groupActionCode is not provided, then groupActionCode will be defaulted to J. | N/A | String |  | Conditional |
| overrideCode | If this value is set to A, then all the rules for deciding whether input subscriber can join the group or not will be skipped.  Either overrideCode or applicationUserRole can be provided. Both of these are optional. | 1 | String |  | Optional/  Choice |
| applicationUserRole | Role assigned to application user’s profile. This is to support certain rules override functionality for iCare users based on their user profile role. | 80 | String |  | Optional/  Choice |

Table 3 - Fields in subscriberJoiningGroup

##### orderTypeInfo

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| orderTypeCode | Calling application should use this field to indicate for what type of order this API is called. Certain input validations will be enforced based on the orderTypeCode. For external (7UL) users, orderTypeCode is mandatory except for certain use cases. Only for searching by a groupId, orderTypeCode is not mandatory for external users. Unless exceptional policy allows users to not pass this. | 1 | String | N – New  A – Add On  U – Upgrade  S – Service | Optional |
| saleTypeCode | For device sale orders, calling application should indicate whether subscriber is performing a subsidized sale or not. Based on this field’s value and some other criteria, participationFeeDetails in response will be returned. | 1 | String | S – Subsidized  N – Nonsubsidized | Optional |

Table 4 - Fields in orderTypeInfo structure

##### joiningSubscriberInfo

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| ban | Billing account number.  For new BAN’s it is recommended to send accountTypeInfo instead of passing BAN to avoid DB lookup.  If BAN is provided, and BAN has only one subscriber then eligibility verification will be done for the subscriber.  If BAN has more than one subscribers, then the verification will be at BAN level, and only BAN’s accountType, accountSubType, creditClass will be used in determining the eligibility to join a group. | 9 | Integer |  | Choice |
| mdn | One of the MDNs to identify a BAN | 10 | String |  | Choice |
| subscriberId | Subscriber Number to identify a BAN | 20 | String |  | Choice |
| electronicSerialNumber | Handset Serial Number | 20 | String |  | Choice |
| ipAddress | IP for identifying the subscriber | 15 | String |  | Choice |
| nai | Network Access Identifier | 64 | String |  | Choice |
| hppttId | High Performance Push To Talk ID | 1-40 | String |  | Choice |
| accountTypeInfo | Structure containing accountType, accountSubType, and creditClass |  | Structure |  | Choice |

Table 5 - Fields in joiningSubscriberInfo

###### accountTypeInfo

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| accountType | Account Type Code | 1 | String |  | Req |
| accountSubType | Account Sub Type Code | 1 | String |  | Req |
| creditClass | Credit Class | 2 | String |  | Req |

Table 6 - Fields in accountTypeInfo

## Response Message

### lookupGroupAndEligibilityResponse

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| groupList | This structure returns group information based on the input group identifier.  If BAN is provided in input, and if BAN has more than one subscribers as part of more than one group, then more than one groupInfo structures will be returned in response.  If input is SubscriberId/MDN, then groupId on the subscriber will be identifier and data for that group will be returned. | N/A | Structure |  | Optional |
| eligibilityInfoForInputSub | For input subscriber provided in subscriberJoiningGroup.subscriberInfo, this field will indicate if subscriber is eligible for joining a group or not. | N/A | Structure |  | Optional |

Table 7 - Fields in lookupGroupAndEligibilityResponse

#### groupList

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| groupInfo | Structure containing groupInfo based on the input group identifier. | 1 | String |  | Required |

Table 8 – Fields in groupList

##### groupInfo

If groupIdentifierInfo is not provided in input, then a new groupId will be generated and this structure will contain data for new groupId.

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| groupId | Unique identifier for every group.  If groupIdentifierInfo is not provided in input, then a new group id will be generated. | 15 | String |  | Required |
| groupOpenInd | Boolean flag indicating if any additional subscribers can join this group or not. |  | Boolean | true, false | Required |
| ineligibleReason | Text describing why subscriber cannot join the group. | 1000 | String |  | Optional |
| groupCurrentTierDiscount | Group current discount per subscriber based on the current subscriber count of the group.  If current subscriber count of the group is greater than the maxSubscriberLimit, then this field will represent discount for maxSubscriberLimit only. |  | Decimal |  | Required |
| groupNextTierDiscount | Group next discount after adding one more subscriber to the group. If current subscriber count is equal to the max allowed subscribers on the group, then this field will not be returned. |  | Decimal |  | Optional |
| currentSubscriberCount | Count of subscribers currently on the group receiving any discounts.  For new group, this will be 0. | 6 | Integer |  | Required |
| maxSubscriberLimit | Maximum number of subscribers allowed per group. | 6 | Integer |  | Required |
| groupSubscriberList | List of subscribers within the group.  For new group, this will not be returned. |  | Structure |  | Optional |
| discountTierList | Discount Amount vs. Subscriber Count Matrix. |  | Structure |  | Optional |
| newGroupId | If the group identified by input group identifier is maxed out, and groupActionCode is provided in input, then a new groupId will be generated.  A new groupId will also be generated and returned if groupIdentifierInfo is not provided in input. | 15 | String |  | Optional |

Table 9 - Fields in groupInfo

###### groupSubscriberList

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| groupSubscriberInfo | Structure containing subscriber information who is within the group |  | Structure |  | Required |

Table 10 - Fields in subscriberList

**groupSubscriberInfo**

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| ban | Subscriber’s BAN | 9 | Integer |  | Required |
| subscriberId | Subscriber Unique Identifier | 20 | String |  | Required |
| mdn | Subscriber’s MDN | 10 | String |  | Required |
| subscriberName | Subscriber Name in following format.  FirstName MiddleInitial LastName | 100 | String |  | Required |
| subscriberStatus | Subscriber Status | 1 | String | A – Active  S – Suspended  R - Reserved | Required |
| groupJoinDate | Date subscriber joined this group |  | Date |  | Required |
| groupExitDate | Date subscriber exits this group |  | Date |  | Optional |
| discountEligibilityFlag | Boolean flag indicating if this subscriber is counted for discount calculation. |  | Boolean |  | Required |
| discountIneligibleReason | Reason describing why subscriber is not counted for discount calculation | 1000 | String |  | Optional |
| deviceItemId | Subscriber’s currently active handset item identifier. | 15 | String |  | Optional |

Table 11 - Fields in subscriberInfo

###### discountTierList

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| discountTierInfo | Structure containing discount matrix. |  | Structure |  | Required |

Table 12 - Fields in discountTierList

**discountTierInfo**

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| subscriberCount | Subscriber Count | 6 | String |  | Required |
| discountAmountPerLine | Discount amount per line based on subscriber count. |  | Decimal |  | Required |

Table 13 - Fields in discountTierInfo

#### eligibilityInfoForInputSub

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| discountEligibilityFlag | Indicates whether input subscriber can participate in group discount program or not. | 1 | String |  | Required |
| ineligibleReason | If input subscriber is not eligible for participating in the program, this field describes the reason for ineligibility. | 1000 | String |  | Optional |
| currentGroupId | GroupId subscriber is currently on. | 15 | String |  | Optional |
| canJoinInputGroupInd | This field will indicate if input subscriber is eligible to join the input group identified by the group identifier provided in groupIdentifierInfo.  This field will not be returned if discountEligibilityFlag is false.  This field will not be returned if groupIdentifierInfo is populated with ban. |  | Boolean |  | Optional |
| reasonCannotJoinInputGroup | Field describing while subscriber cannot join the input group. This field will be returned only if canJoinInputGroupInd is false.  E.g., Input Subscriber was activated more than 14 days back, and hence cannot join an existing group not part of subscriber’s account. | 1000 | String |  | Optional |
| participationFeeDetails | This structure provides fee details for a subscriber to join RAMBO program. A fee for joining RAMBO program is assessed only for subscriber’s not meeting all the criteria to join RAMBO program. | N/A | Structure |  | Optional |

Table 14 – Fields in eligibilityInfoForInputSub

##### participationFeeDetails

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| feeApplicableInd | Flag indicating if subscriber will be charged a fee for participating in RAMBO program. |  | Boolean | true, false | Required |
| feeType | Field indicating if fee is a One Time Charge or Monthly Charge | 1 | String | M – Monthly  O – One Time  B - Both | Optional |
| oneTimeChargeInfo | This structure contains onetime fee info to participate in RAMBO | N/A | Structure |  | Optional |
| monthlyChargeInfo | This structure contains recurring fee info to participate in RAMBO | N/A | Structure |  | Optional |
| consentMessage | The message subscriber will have to provide their consent saying they are agreeing to pay the fee to join RAMBO. | 1024 | String |  | Optional |

Table 15 - Fields in participationFeeDetails

###### oneTimeChargeInfo

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| oneTimeChargeAmount | Monthly of One Time dollar amount subscriber will have to pay |  | Decimal |  | Optional |
| soc | SOC code used to charge the fee | 9 | String |  | Optional |

Table 16 - Fields in oneTimeChargeInfo

###### monthlyChargeInfo

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| monthlyChargeAmount | Monthly of One Time dollar amount subscriber will have to pay |  | Decimal |  | Optional |
| numberOfMonths | Number of months monthly fee will be charged | 2 | Integer |  | Optional |
| soc | SOC code used to charge the fee | 9 | String |  | Optional |
| feeExpirationDate | Date until monthly fee will be applicable. This will be subscriber’s ARM tier#2 upgrade eligibility date. |  | Date |  |  |

Table 17 - Fields in monthlyChargeInfo

# EAI Connectivity

## MQ Series Connectivity: N/A

|  |  |  |
| --- | --- | --- |
| **Transaction Name** | **Request Queue Name** | **Reply Queue Name** |

### MQ Configuration Settings

The table below represents the recommended configuration settings when calling this interface.

|  |  |
| --- | --- |
| **Configuration Item** | **Value** |
| **Recommended Expiry** | 5 |
| **Expiry** | Min: .4 Max: 50 |
| **Persistence** | Not Allowed |
| **Request Character Set (CCSID)** | 1208 |
| **Reply Character Set (CCSID)** | 1208 |

**Recommended Expiry**: (in seconds) How long the message will remain on the request queue before being marked for deletion. This value should be consistent with the time waiting for the reply. For example, waiting less than the expiry setting may cause a request to be processed even though the front end has timed out and does not expect to return to the queue to wait for the reply.

**Expiry**: (in seconds) How long the message will remain on the request queue before being marked for deletion. If the expiry is below the minimum or above the maximum, an exception will be returned.

**Perisistence**: (in seconds) Specifies if the message is required or allowed to be persisted. In most instances, a persisted message will survive an MQ process shutdown. If persistence is not allowed and set on the request, an exception will be returned. If the persistence is set on the request, it will also be set on the reply.

**Request Character Set**: The character set of the data. The 1208 CCSID represents the UTF-8 character set; therefore, the encoding declaration of the XML should be UTF-8.

**Reply Character Set**: The character set of the data. The 1208 CCSID represents the UTF-8 character set; therefore, the encoding declaration of the XML should be UTF-8. Unless specified otherwise, EAI replies will be sent using 1208.

*Note: MQ clients should ensure the replies are received in a compatible coded character set identifier (CCSID) with the application’s environment AND consistent with the character set of message. This can be done by setting the characterSet (Java) on the MQMD and adding the ‘convert’ get-message-option when retrieving the response.*

### Header Version Supported

<Put type of header here: Fixed Length Header or XML MQ Header>

|  |  |
| --- | --- |
| **Header Version(s) Supported** | **Link/Location of the Header Format** |
|  | **XML MQ Header Info** |
| V2 | Refer to *XML\_MQ\_Header\_Standards.doc.* See section, 3.4, for the folder link containing a shortcut to the document. |
|  | **Fixed Length Header Info** |
| V3 | Refer to *BLM Message Standards and Sprint Header.doc*. See section, 3.4, for the folder link containing a shortcut to the document. |

### XML MQ Header XSD

See section, 3.3, for the production schema folder link containing shortcuts to the following header schemas:

* MQMessageHeaderV2.xsd

### Error Conditions

Refer to the *Table of Standard Exceptions*. See section, 3.4, for the folder link containing a shortcut to the document.

#### API Specific Error Conditions

N/A

## SOAP/HTTP

|  |  |
| --- | --- |
| Name | Description |
| *Deployed Service Name* | QueryDiscountService |
| *Operation Name* | LookupGroupAndEligibility |

### HTTP Configuration Settings

The table below represents the configuration settings when calling this interface. If third-party tools are used to create and send the SOAP request, most of these values will be set to the correct value by the tool.

|  |  |
| --- | --- |
| **Configuration Item** | **Value** |
| **Read Timeout** | Min: 1 Max: 10 |
| **Content** | text/xml |
| **Character Set** | utf-8 |

**Read Timeout**: (in seconds) How long to wait on the HTTP response from the interface before timing out.

**Character Set**: The character set of the data. For HTTP, character set is specified by the ‘Content-Type’ HTTP header; see example below. The HTTP charset should match the encoding declaration of the XML request.

**HTTP Header Header Value**

**Content-Type content=”text/xml; charset=utf-8”**

### Security

#### Encryption

*This interface does not require encryption in transport for applications within the Sprint network.*

*<If the interface requires encryption, remove the previous statement and include the following information, otherwise remove the following information.>*

Due to the nature of this interface, confidentially in transport of the message is required. EAI allows access to this interface using protocol, http**s**, so SSL can encrypt the data between the consumer and EAI.

EAI’s Configuration Management team can provide any certificate information consumer’s need for SSL configuration.

#### Authentication

*This interface does not require authentication for applications within the Sprint network.*

### Schema & WSDL

See section, 3.3, for the schema folder links containing the WSDL and XSD files; production and draft versions.

### EAI Web Service User Guide

See section, 3.4, for the folder link containing *EAI Web Service User Guide.docx*.

### Web Service Header XSD

See section, 3.3, for the production schema folder link containing the header schema.

* WSMessageHeaderV2.xsd

### Error Conditions

Refer to the table of Standard SOAP Faults in the *EAI Web Service User Guide.docx*.

#### API Specific Error Conditions

*When possible, the interface document should clarify which fault codes the consumer should expect; at least the predominant ones.*

*Use the following table format to capture specific error conditions called out in the design.*

|  |  |
| --- | --- |
| **Fault Code** | **Condition** |
| *Client.707* | *When the request’s security token fails authentication*  *When the authenticated security token fails authorization to invoke the service*  *When the WSMessageHeader application Id or consumerId value fails crosscheck validation with the authenticated security token* |
| *:* | *...* |

Note: The preceding table is not an exhaustive list of all fault codes returned by this interface, but captures those called out specifically in the design. The same fault codes listed or other fault codes may also be returned by the interface for general failure scenarios.