Enterprise Application Integration

Component Interface Specification

OVM

PortEligibility

Status: draft

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# Document Control

## Template Change Record

| Date | Author | Revision | Change Reference |
| --- | --- | --- | --- |
| 5/20/2010 | Yvonne Winsor |  | Template change, removed sprint logo and cleaned document |
| 6/23/2010 | David Fultz | 1.1 | * Changed file name convention for consistency with the design document file name * Added links for User Guides, etc. * Set all text to ‘Times Roman’ * Created different change control tables for template updates vs. what should be used for the interface document itself. * Changed references to the Web Service Design Standards document to the Web Service User Guide document. |
| 07/26/2010 | David Fultz | 1.2 | * Added a standard fault code and exception table to coincide with the design template when specific error conditions are called out in the design. |
| 08/27/2010 | David Fultz | 1.3 | * Added a Security section for 76S consumers to address encryption and authentication if the interface requires either or both. |
| 09/09/2010 | David Fultz | 1.4 | * Removed references to EAIMqMessageHeader.xsd & MQMessageHeaderV1.xsd * Placed the references to WMQ CCSID in RED as a place holder for when the direction is set; it can be removed until then * Removed references to the ISO-8859-1 character set from the HTTP section |
| 09/15/2010 | David Fultz | 1.5 | * Further clarifications to the Security section including the crosscheck validation between the security token and the consumerId/applicationId * Added 2 more conditions for receiving a Client.707, security validation error. |
| 09/17/2010 | David Fultz | 1.6 | * Further clarifications to the Security section |
| 11/19/2010 | David Fultz | 1.7 | * Added CCSID & Encoding information * Added the application id prefix to the queue name per the latest standards |

## 

## Change Record

| Date | Author | Revision | Change Reference |
| --- | --- | --- | --- |
| 7/22/2011 | Neelima Parasker | 1.0 | Initial Draft |
| 7/27/2011 | Neelima Parasker | 1.1 | Ticket IM448265. Modified the response fields to expose additional fields received by OVM from he backend API. These fields are suggested to be used by the partners to understand the network compatibility or a port in number. |

# Functionality

PortEligibility API provides the details required to verify if a customer provided phone number is eligible to port-in to Sprint-Nextel network. On the response of this Service the calling application can not only determine the eligibility but also get additional details related to the portability of the number, current service provider and estimated date that identifies the length of time the processing of a port request would take from the date the eligbility request was sent and which network the PTN can be ported into.

# Related Documents

## Link to EAI Design Specification document

|  |  |
| --- | --- |
| Draft | <https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=52360415&objAction=browse&viewType=1> |
| 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 | <https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=49619827&objAction=browse&viewType=1> |
| Prod | [Link to Production Folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=39172438&objAction=browse&viewType=1) |

## Link to XSDs / WSDLs

|  |  |
| --- | --- |
| Draft | <https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=49626046&objAction=browse&viewType=1> |
| 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** | XML / HTTP |
| **Encoding** | UTF-8 |

## Request Message

### PortEligibility

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| port-in-number | List of 1 to many Port In Numbers can be provided in the structure. | N/A | String |  | Req |

#### Table 1 – Fields in portEligibility

## Response Message

### PortEligibilityResponse

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| port-response-info | List matching the number of port-in numbers provided in the Port Request. | N/A | Structure |  | Req |

#### Table 2 – Fields in portEligibilityResponse

#### port-response-info

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| port-in-number | Customer provided phone number requested to determine port-in eligibility | 10 | String |  | Opt |
| port-eligibility | Determines whether a number can be ported into Sprint-Nextel | 5 | Boolean | True  False | Req |
| port-eligibility-details | Provides additional details related to the portability of the phone number |  | String |  | Opt |
| carrier | The current service provider of the phone number |  | String |  | Op |
| estimated-due-date | Estimated date that identifies the length of time the processing of a port request would take from the date the eligbility request was sent. | N/A | Date |  | Opt |
| network-Ind | Network Indicator Code specifies the network eligible for porting:  I - iDEN  C - CDMA  B – Both  N – None of the networks.  **Note: The ‘port-eligiblity’ field above can return ‘True’ but the eligibility will only be tied to the ‘network-Ind’ field that shows the network in which the portIn is eligibile.** | 1 | String | I,C,B, N | Req |

#### Table 3 – Fields in port-response-info

## XML/HTTP

|  |  |
| --- | --- |
| Name | Description |
| *Deployed Service Name* | *PortEligibilityService* |
| *Operation Name* | *portEligibility* |

### 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.*

#### 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.

* Header Info??

### Error Conditions

[Refer to table of Standard SOAP Faults in the Web Service Design Standards](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=41316278&objAction=Open&nexturl=%2Flivelink%2Fllisapi%2Edll%3Ffunc%3Dll%26objId%3D40827672%26objAction%3Dbrowse%26viewType%3D1)

**Link in doc share for OVM Error Conditions for all OVM Services:**

<https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=53932693&objAction=Open&nexturl=%2Flivelink%2Fllisapi%2Edll%3Ffunc%3Dll%26objId%3D53264720%26objAction%3Dbrowse%26viewType%3D1>

**Link to the folder for the OVM Error Conditions doc:**

<https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=53264720&objAction=browse&viewType=1>



#### API Specific Error Conditions



|  |  |
| --- | --- |
| **Fault Code** | **Condition** |
|  |  |
|  |  |

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.