Enterprise Application Integration

Component Interface Specification

OVM

ActivateNow

Status: draft

Author: EAI Analyst Team

Last Update: 8/30/2011

Table of Content

1 Document Control 1

Template Change Record 1

Change Record 2

2 Functionality 3

Link to EAI Design Specification document 4

Link to Web Service document 4

Link to XSDs / WSDLs 4

Link to EAI User Guides and Helps 4

3 Component Request/Reply/Structures 5

Request Message 5

3.1.1 activateNow 5

Table 1 – activateNow 5

Response Message 6

3.1.2 activateNowResponse 6

Table 2 – Fields in activateNowResponse 6

3.1.3 XML/HTTP 7

HTTP Configuration Settings 7

3.1.4 Security 7

3.1.4.1 Encryption 7

3.1.4.2 Authentication 7

3.1.5 Schema & WSDL 7

3.1.6 EAI Web Service User Guide 8

3.1.7 Web Service Header XSD 8

3.1.8 Error Conditions 8

3.1.8.1 API Specific Error Conditions 8

# 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 |
| --- | --- | --- | --- |
| 8/30/2011 | Neelima Parasker | 1.0 | Initial Draft |
| 02/04/2012 | Saritha Guduputi | 1.1 | PJ006784 LTE Removable UICC: Added UICC device serial number ICC-ID in the request |
| 06/29/2012 | Ted Burbidge | 1.2 | PJ007505 – Added activate-reserved-subscriber and sprint-order-id fields. |

# Functionality

OVM’s ActivateNow Service provides functionality of activating a future dated subscriber or initiating a future dated port in request.The Activate Now service is capable of activating reserved subscribers with an activation date in the future OR updates the port in date of a subscriber with an existing port in request that is to take place in the future.

The request consists of a choice of device identifiers:

* CDMA device serial number (meid)
* iDEN device serial number (hsn)
* 4G/Airave device serial number (mac-id)

The request consists of another choice to identify the account associated to the device identifier provided:

* Subscriber phone number (reference-ptn)
* Subscriber number (subscriber-id)
* Account number (account-number)
* Sprint-order-id

The request consists of another choice to define the activity:

* Activate previously future dated subscriber (activate-device)
* Initiate previously future dated port-in request (start-port-in)
* Activate-reserved-subscriber field

The response consists of a single element, success, describing success (true) or failure\* (false) of OVM to complete the request’s defined activity.

*\*failure will be accompanied by a specific error condition defined in the ovm-error-info structure.*

OVM will ensure that the device identifier provided is linked to the account identifier. OVM will also ensure that the activity requested can be performed. The following error conditions can occur during the processing of this transaction:

* If the device identifier provided is not linked to an active subscriber then error code 259 will be returned.
* If the account number is provided and is not valid then error code 135 will be returned.
* If the reference PTN is provided and is not valid then error code 141 will be returned.
* If the subscriber Id is provided and is not valid then error code 247 will be returned.
* If the device and account provided are not linked together then error code 402 will be returned.
* If the request is to activate a reserved subscriber and that subscriber is not in a state that can be activated then error code 247 will be returned.
* If the request is to initiate a port in and the subscriber is not in a state to perform this activity then error code 354 will be returned.
* If the transaction fails because of an unanticipated error then error code 219 will be returned.

Related Documents

## Link to EAI Design Specification document

|  |  |
| --- | --- |
| Draft | [Design Draft Folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=54794511&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 | [Schema Draft folder](https://doc-share.corp.sprint.com/livelink/llisapi.dll?func=ll&objId=54795320&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

### activateNow

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| meid | Customer’s CDMA phone identifier, required if mac-id or hsn is not provided | Pattern of a-zA-Z0-9]{1,18} | String |  | Required |
| icc-id | Customer Integrated Circuit Card ID of the LTE device | 20 Pattern of a-zA-Z0-9]{1,20} | String |  | Choice |
| hsn | Customer’s iDEN phone identifier, required if mac-id or meid is not provided | Pattern of [a-zA-Z0-9]{8}|[a-zA-Z0-9]{10} | String |  | Required |
| mac-id | Customer’s 4G/Airave device identifier, required if meid or hsn is not provided | 12 | String |  | Required |
| reference-ptn | Required if account-number or subscriber-id or sprint-order-id is not provided | 10 | String |  | Required |
| account-number | Required if reference-ptn or subscriber-id or sprint-order-id is not provided | 9 | String |  | Required |
| subscriber-id | Required if reference-ptn or account-number or sprint-order-id is not provided | 20 | String |  | Required |
| sprint-order-id | Required if reference-ptn, account-number or subscriber-id is not provided | 50 | String |  | Required |
| activate-device | Activate future dated subscriber, required if start-port-in not provided | 5 | Boolean |  | Required |
| start-port-in | Initiate port in, required if activate-device not provided | 5 | Boolean |  | Required |
| activate-reserved-subscriber | Indicates if front-end will need to activate a reserved subscriber |  | Boolean |  | Required |

#### Table 1 – activateNow

## Response Message

### activateNowResponse

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| Success | Indicates success or failure of activating a future dated subscriber or initiating a future dated port in |  | Boolean |  | Required |

#### Table 2 – Fields in activateNowResponse

### XML/HTTP

|  |  |
| --- | --- |
| Name | Description |
| *Deployed Service Name* | *ActivateNowService* |
| *Operation Name* | *activateNow* |

### 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.