Enterprise Application Integration

Component Interface Specification

OVM

ActivateReservedDevice

Status: draft

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Last Update: 02/08/2012

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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 |
| --- | --- | --- | --- |
| 01/28/2012 | Saritha Guduputi | 1.0 | Initial Version |
| 01/28/2012 | Saritha Guduputi | 1.1 | PJ006784 updates – added ICCID to the activateReservedDevice Response |

# Functionality

OVM’s ActivateReservedDevice Service provides functionality of activating devices that were previously reserved via a successfully completed OVM upgrade-later transaction

# 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

### ActivateReservedDevice

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| order | Unique order identifier provided and generated by the partner, choice between sprint-order-id | N/A | String |  | choice |
| sprint-order-id | Unique sprint order identifier provided and generated for upgrade order | N/A | String |  | choice |
| ptn-list | Optional list of one or more phone numbers if the activation of reserved devices from completed upgrade later needs to be split because of backorder, customer request | Min: 1  Max: 50 | Structure |  | Optional |

Table 1 – Fields in ActivateReservedDevice

##### Ptn-list

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| reference-ptn | Phone number from completed upgrade later transaction | 10 | String |  | Required |

## Response Message

### ActivationResponse

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| service | Structure of Service Record | N/A | Structure |  | Required |
| activation-fee | Amount required for activation |  | Decimal |  | Optional |
| account-number | OVM will not send back account # to the FE’s for pre-paid. | 10 | String |  | Optional |
| comment |  |  | String |  | Optional |

Table 55 – Fields in ActivationResponse

##### service

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| plan | Plan structure | N/A | Structure |  | Optional |
| accessory | Accessory structure | N/A | Structure |  | Required |

Table 56 – Fields in service

###### plan

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| ATTRIBUTE: id |  |  | String |  | Required |
| phone | List of 0 to many Phone structure |  | Structure |  | Optional |
| result-details | Details or an explanation in more detail of the result |  | String |  | Optional |

Table 57 – Fields in plan

###### phone

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| Attribute: id |  |  | Integer |  | Required |
| Subscriber-id |  | 20 | String |  | Optional |
| Hsn | Handset serial number sent in conjunction with SIM for PARTNER-Fulfilled orders. Otherwise known as ESN or MSN for iDEN handsets. |  | String |  | Optional |
| Sim | SIM card in phone, sent in conjunction with HSN for PARTNER-Fulfilled orders | 20 | String |  | Optional |
| Imei | legacy phone identifier | 20 | String |  | Optional |
| Meid | CDMA phone identifier, required only for PARTNER-Fulfilled orders. This tag can handle both CDMA handset identifiers: MEID and ESN. |  | String |  | Optional |
| icc-id | Customer Integrated Circuit Card ID of the LTE device | 20 Pattern of a-zA-Z0-9]{1,20} | String |  | Choice |
| Mac-id |  | 12 | String |  | Optional |
| primary-ptn |  | 10 | String |  | Optional |
| secondary-ptn | alternate line service |  | String |  | Optional |
| Ufmi | Urban fleet member id, the iDEN direct connect number |  | String |  | Optional |
| ip-address | iDEN specific for data acess |  | String |  | Optional |
| Result | Valid values are SUCCESS, FAILED, CANCELLED, NOT\_VALIDATED, VALID, INVALID\_IMEI, INVALID\_SIM, ACTIVE\_IMEI, ACTIVE\_SIM, NEGATIVE\_IMEI, NEGATIVE\_SIM, INVALID\_EQUIP, RATE\_CENTER\_MISMATCH, INVALID\_ESN, NEGATIVE\_ESN, ACTIVE\_ESN |  | String  Enumeration |  | Optional |
| port-in-temporary-ptn | Temporary PTN given to handset until the port-in request occurs | 10 | String |  | Optional |
| port-in-date | Date when the port-in request for WPN service will occur. Format is "CCYY-MM-DDThh:mm:ss" (T is the date/time separator) |  | DateTime |  | Optional |
| Nai | Unique identifier that is provisioned for CDMA data access |  | String |  | Optional |
| Msid | Needed for device programming |  | String |  | Optional |
| One-time-lock-code | Needed for device programming |  | String |  | Optional |
| Sid | Needed for device programming |  | String |  | Optional |
| hpptt-id | Nextel Direct Connect (NDC) ID on CDMA devices, peer to UFMI |  | String |  | Optional |
| equipment-rebate-amount |  |  | Decimal |  | Optional |
| activation-fee-for-handset |  |  | Decimal |  | Optional |
| activated-services | List of all the services that were activated into the billing system for a new subscriber activation |  | Structure  Min: 0  Max: 1 |  | Optional |
| Program-instructions |  |  | String |  | Optional |
| Device-order-key |  | 13 | String |  | Optional |
| Plan-oder-key |  | 13 | String |  | Optional |
| Existing-contract |  |  | Boolean |  | Optional |
| Meid-hex |  | 20 | String |  | Optional |
| Previously-activated |  | 5 | Boolean |  | Optional |
| Model-id |  | 30 | String |  | Optional |

Table 58 – Fields in phone

Activated-service

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| Activated-service |  |  | Structure |  | Required |

Table 59 – Fields in activated-service

Activated-service

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| Code | price plan/attachable option code |  | String |  | Optional |
| Code-type |  |  | String |  | Optional |
| Name | price plan/attachable option name |  | String |  | Required |
| Plan type |  |  | String |  | Optional |
| monthly-charge | monthly recurring charge of price plan/attachable option |  | decimal |  |  |
| start-date | price plan/attachable option effective date |  | date |  |  |
| expire-date | price plan/attachable option expiration date |  | date |  |  |
| Feature-order-key |  | 13 | String |  | Optional |

Table 60 – Fields in upgrade

##### accessory

| **XML Tag Name / Field Name** | **Description / Notes** | **Length** | **Type** | **Values** | **Req/Opt/Choice** |
| --- | --- | --- | --- | --- | --- |
| Id |  |  | String |  | Required |
| accessory-order-key |  | 13 | String |  | Optional |

Table 61 – Fields in accessory

## XML/HTTP

|  |  |
| --- | --- |
| Name | Description |
| *Deployed Service Name* | *ActivateReservedDeviceService* |
| *Operation Name* | *activateReservedDevice* |

### 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

N/A

|  |  |
| --- | --- |
| **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.