**Origination Date:** 05/08/13

**Originator:** LNPAWG

### Change Order Number: NANC 455

**Description:** Update SP Type and SV Type for FCC VoIP Numbering Trial

**Functional Backwards Compatible:** Yes (Recompile)

**IMPACT/CHANGE ASSESSMENT**

|  |  |  |
| --- | --- | --- |
| DOC | FRS | IIS |
| Y | N |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CMIP | GDMO | ASN.1 | **NPAC** | SOA | LSMS |
| Y | Y | Y | N | N |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| XML | XIS | XSD | **NPAC** | SOA | LSMS |
| N | N | N | N | N |

**Business Need**

The FCC has recently authorized a trial to enable Class 2 Interconnected VoIP providers to obtain their own NANP numbering resources directly from the NANPA and PA. Previously, these VoIP providers had access only to the numbering resources of the PSTN Service Providers. The Class 2 Interconnected VoIP providers partipating in the trial will have an "SP User" status rather than remaining as a "PTRS User" and will require an SP Type category different from the non-carrier value used for PTRS Users. The previous NPAC designation of Service Provider Type and Subscription Version Type consquently require updating to reflect the participation of some Class 2 Interconected VoIP providers in the FCC's VoIP numbering trials.

**Description of Change:**

This change order is being created to update SP Type and SV Type in the NPAC.

Requirements:

Update the data model for the SP Type and SV Type.

###  NPAC Customer Data

NPAC Customer Data contains information about NPAC customers participating in the LNP service. The data items that need to be administered by NPAC Customer Data Management are represented in the tables that follow:

1. A check in the “Required” column means that this attribute must exist in the record before the record is considered useable.

| **NPAC CUSTOMER DATA MODEL** |
| --- |
| **Attribute Name** | **Type (Size)**  | **Required** | **Description** |
| NPAC Customer ID | C (4) | √ | An alphanumeric code which uniquely identifies an NPAC Customer. |
| NPAC Customer Name | C (40) | √ | A unique NPAC Customer Name. |
| [snip] |  |  |  |
| Current shown below: |  |  |  |
| Service Provider Type | E | √ | Enumeration indicating what type of service provider the NPAC Customer is:* Wireline (0)
* Wireless (1)
* Non-Carrier (2)
* Class 1 Interconnected VoIP (3)
* SP Type 4 (4) (supported by the interface, but not accepted until industry use defined)
* SP Type 5 (5) (supported by the interface, but not accepted until industry use defined)
 |
| [snip] |  |  |  |
| New text below: |  |  |  |
| Service Provider Type | E | √ | Enumeration indicating what type of service provider the NPAC Customer is:* Wireline (0)
* Wireless (1)
* Non-Carrier (2)
* Class 1 Interconnected VoIP provider. Also, Class 2 interconnected VoIP provider, eligible for direct assignment of NANP numbering resources from the NANPA and PA. (3)
* SP Type 4 (4) (supported by the interface, but not accepted until industry use defined)
* SP Type 5 (5) (supported by the interface, but not accepted until industry use defined)
 |

Table ‑ NPAC Customer Data Model

###  Subscription Version Data

Subscription Version Data consists of information about the ported TNs. The data items that need to be administered by Subscription Version Data Management functions are identified in the table that follows:

| **SubscriPTION VERSION Data MODEL** |
| --- |
| **Attribute Name** | **Type (Size)** | **Required** | **Description** |
| Version ID | N | √ | A unique sequential number assigned upon creation of the Subscription Version. |
| LRN | TN | √ | The LRN is an identifier for the switch on which portable NPA-NXXs reside. |
| [snip] |  |  |  |
| Current shown below: |  |  |  |
| SV Type | E | √ | Subscription Version Type. Valid enumerated values are:1. Wireline – (0)
2. Wireless – (1)
3. Class 2 Interconnected VoIP – (2)
4. VoWIFI – (3)
5. Prepaid Wireless – (4)
6. Class 1 Interconnected VoIP – (5)
7. SV Type 6– (6)

This field is only required if the service provider supports SV Type data. |
| [snip] |  |  |  |
| New text below: |  |  |  |
| SV Type | E | √ | Subscription Version Type. Valid enumerated values are:1. Wireline – (0)
2. Wireless – (1)
3. Class 2 Interconnected VoIP – (2)
4. VoWIFI – (3)
5. Prepaid Wireless – (4)
6. Class 1 Interconnected VoIP provider. Also, Class 2 interconnected VoIP provider, eligible for direct assignment of NANP numbering resources from the NANPA and PA. – (5)
7. SV Type 6– (6)

This field is only required if the service provider supports SV Type data. |

Table 3‑6 Subscription Version Data Model

IIS:

No Change Required.

XIS:

No Change Required.

GDMO:

Update for SP Type and SV Type.

Current shown below:

-- 151.0 LNP Service Provider Type

serviceProviderType ATTRIBUTE

 WITH ATTRIBUTE SYNTAX LNP-ASN1. ServiceProviderType;

 MATCHES FOR EQUALITY;

 BEHAVIOUR serviceProviderTypeBehavior;

 REGISTERED AS {LNP-OIDS.lnp-attribute 151};

serviceProviderTypeBehavior BEHAVIOUR

 DEFINED AS !

 This attribute is used to specify the service provider types. The

 valid values are: wireline, wireless, non-carrier, and class 1

 Interconnected VoIP.

!;

--

-- 153.0 Subscription Version SV Type

--

subscriptionSvType ATTRIBUTE

 WITH ATTRIBUTE SYNTAX LNP-ASN1.SVType;

 MATCHES FOR EQUALITY, ORDERING;

 BEHAVIOUR subscriptionSvTypeBehavior;

 REGISTERED AS {LNP-OIDS.lnp-attribute 153};

subscriptionSvTypeBehavior BEHAVIOUR

 DEFINED AS !

 This attribute is used to specify the subscription version

 type.

 The possible values are:

 0 : wireline

 1 : wireless

 2 : class2InterconnectedVoIP

 3 : voWiFi

 4 : prepaid-wireless

 5 : class1InterconnectedVoIP

 6 : sv-type-6

 7 : sv-type-7

 8 : sv-type-8

 9 : sv-type-9

!;

New text below:

-- 151.0 LNP Service Provider Type

serviceProviderType ATTRIBUTE

 WITH ATTRIBUTE SYNTAX LNP-ASN1. ServiceProviderType;

 MATCHES FOR EQUALITY;

 BEHAVIOUR serviceProviderTypeBehavior;

 REGISTERED AS {LNP-OIDS.lnp-attribute 151};

serviceProviderTypeBehavior BEHAVIOUR

 DEFINED AS !

 This attribute is used to specify the service provider types. The

 valid values are: wireline, wireless, non-carrier, and class 1

 Interconnected VoIP along with class 2 interconnected VoIP eligible

 for direct assignment of NANP numbering resources from the NANPA

 and PA.

!;

--

-- 153.0 Subscription Version SV Type

--

subscriptionSvType ATTRIBUTE

 WITH ATTRIBUTE SYNTAX LNP-ASN1.SVType;

 MATCHES FOR EQUALITY, ORDERING;

 BEHAVIOUR subscriptionSvTypeBehavior;

 REGISTERED AS {LNP-OIDS.lnp-attribute 153};

subscriptionSvTypeBehavior BEHAVIOUR

 DEFINED AS !

 This attribute is used to specify the subscription version

 type.

 The possible values are:

 0 : wireline

 1 : wireless

 2 : class2VoIP-noNumAssgnmt

 3 : voWiFi

 4 : prepaid-wireless

 5 : class1And2VoIP-WithNumAssgnmt

 6 : sv-type-6

 7 : sv-type-7

 8 : sv-type-8

 9 : sv-type-9

!;

ASN.1:

Update for SP Type and SV Type.

Current shown below:

ServiceProviderType ::= ENUMERATED {

 wireline (0),

 wireless (1),

 non-carrier (2),

 class1InterconnectedVoIP (3),

 sp-type-4 (4),

 sp-type-5 (5)

}

SVType ::= ENUMERATED {

 wireline (0),

 wireless (1),

 class2InterconnectedVoIP (2),

 voWiFi (3),

 prepaid-wireless (4),

 class1InterconnectedVoIP (5),

 sv-type-6 (6),

 sv-type-7 (7),

 sv-type-8 (8),

 sv-type-9 (9)

}

New text below:

ServiceProviderType ::= ENUMERATED {

 wireline (0),

 wireless (1),

 non-carrier (2),

 class1And2VoIP-WithNumAssgnmt (3),

 sp-type-4 (4),

 sp-type-5 (5)

}

SVType ::= ENUMERATED {

 wireline (0),

 wireless (1),

 class2VoIP-noNumAssgnmt (2),

 voWiFi (3),

 prepaid-wireless (4),

 class1And2VoIP-WithNumAssgnmt (5),

 sv-type-6 (6),

 sv-type-7 (7),

 sv-type-8 (8),

 sv-type-9 (9)

}

XML:

No Change Required.