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

**Originator:** Verizon

### Change Order Number: NANC 453

**Description:** Change Definition and Disallow use of Inactive SPID

**Functional Backwards Compatible:** Yes

**IMPACT/CHANGE ASSESSMENT**

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

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

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

**Business Need**

An Inactive SPID is being used, causing SV data issues.

In some cases, upon completion of the pre-port process (LSR/FOC, WPR/WPRR), the Service Provider currently serving the TN (soon to be the Old SP) immediately submits a “release” message to the NPAC (Old SP Create Subscription Version Request). Consequently, a pending SV is established at the NPAC based on this Request.

Sometimes, the Old SP replies on the New SP name to select the SPID value to enter on its “release” message to the NPAC. Because some SPs have more than one valid SPID at the NPAC, the Old SP might **not** select the New SP SPID value that was included on the LSR, but a different SPID value for the same Service Provider. Further complicating the port transaction, the New SP SPID entered by the Old SP may be a SPID that the New SP has decomissioned. Untangling the message involves substantial manual effort and results in a delay in establishing the consumer's new telephone service.

Current NPAC business rules require that the NPAC retain a SPID as long as it is associated with any network data, such as an LRN, or it appears in any active-like SV record. That is, even if the SPID appears only as the "Old SP" in an SV record, the SPID cannot be decommissioned in the NPAC in such a way that the error described above can be prevented. Hence, the “inactive” SPID is not inactive in the NPAC.

The business need is to provide some mechanism that would disallow the use of a SPID that has been decommissioned by the Service Provider, but still remains in the NPAC because of the current business rules.

**Description of Change:**

This change order is being created to resolve the issue of incorrectly using an “inactive” SPID.

The proposed change is to allow a SPID to be deleted if it is listed as the Old SP on an active-like SV. This change would not affect functionality in the NPAC (ability to port, PTO) as this decommissioned SPID does not own any codes, pooled blocks, or SVs. Yet, it would prevent the incorrect usage/reference of this decommissioned SPID when creating new SVs.

There are both a short-term solution and a long-term solution to this “inactive” SPID delete scenario where the only data that exists for this decommissioned SPID are the active-like SVs where they are the Old SP value. In the description below, the decommissioned SPID is 1111, and a temporary placeholder SPID (not used by any Service Provider in that region) is 2222:

1. Short-term – Execute a script during the maintenance window (or a pre-defined and agreed-upon window while the system is up and running) that performs a work-around for the current requirements functionality. At a high-level, this would involve the following:
	1. Clean-up any pending SVs that list 1111 as the new SP.
	2. Enter maintenance.
	3. Update the Old SP value from 1111 to 2222 on the applicable SVs.
	4. Delete 1111 (this will cause the delete download to all Service Providers).
	5. Restore the Old SP value from 2222 to 1111 on the applicable SVs.
	6. Bring the region back up.
	7. All Service Providers will recover the delete download.
	8. Decommissioned SPID 1111 is no longer valid for SV create messages.
2. Long-term – Discuss two options (2a and 2b), then decide. Make corresponding software changes to the NPAC:
	1. Allow the delete of a SPID in the NPAC, even when there are active SVs that use that SPID value in the Old SP field.
	2. Add an NPAC setting/status that prevents a SPID from being specified in the New SP field on SV Create messages.
	3. During the July 2013 LNPA WG meeting, it was decided by the group that there was benefit to having both 2a and 2b for the long-term solution. As such, new requirements will be added to this document.

Requirements:

Existing Requirements.

(RR4-3.1 is not changing, but is included for reference purposes to define “affected” SVs in R4-22.1, R4-22.2, and R4-22.3)

RR4-3.1 Removal of NPA-NXX – Subscription Version Check

NPAC SMS shall allow removal of an NPA-NXX by NPAC personnel only if no Subscription Versions, except for Old without a Failed SP List or Canceled Subscription Versions, exist for the NPA-NXX.

R4-22.1 No Subscription Versions during Service Provider Delete

NPAC SMS shall perform the deletion of the Service Provider data, notify the user that the deletion request was successful, if there are no affected Subscription Versions, and write the Service Provider data to a history file.

Note: The Subscription Versions that are allowed to exist include Cancelled, Old with an empty Failed SP List, and Active where the Old Service Provider value is the SPID.

R4-22.2 Subscription during Service Provider Delete

NPAC SMS shall notify the user that the request to delete the Service Provider data cannot be completed until the affected individual Subscription Versions are modified, if affected Subscription Versions are found.

Note: The Subscription Versions that are allowed to exist include Cancelled, Old with an empty Failed SP List, and Active where the Old Service Provider value is the SPID.

R4-22.3 Service Provider subscription restrictions during Network Data Delete.

NPAC SMS shall determine if there are any Subscription Versions being affected by the NPA-NXX and/or LRN data being deleted.

Note: The Subscription Versions that are allowed to exist include Cancelled, and Old with an empty Failed SP List.

R5-18.5 Create Subscription Version - Service Provider ID Validation

NPAC SMS shall verify that the old and new Service Provider IDs exist in the NPAC SMS system and are available for porting, upon Subscription Version creation for an Inter-Service Provider port.

New Requirements.

Req 1 Service Provider – No new Subscription Versions as New Service Provider

NPAC SMS shall allow NPAC personnel to mark a Service Provider as not-available for use as the New Service Provider in Subscription Versions Create Requests.

Req 2 Create “Intra-Service Provider Port” Subscription Version - Service Provider ID Validation

NPAC SMS shall verify that the old and new Service Provider IDs exist in the NPAC SMS system and are available for porting, upon Subscription Version creation for an Intra-Service Provider port.

IIS:

Flow B.3.2, Service Provider Deletion by the NPAC.

Check the database to see if the service provider has associated with it NPA-NXX data, LRN data, or subscription versions with status other than old with an empty failed SP List cancelled, or Active where the Old Service Provider value is the SPID. If so, deny the request.

XIS:

No Change Required.

GDMO:

No Change Required.

ASN.1:

No Change Required.

XML:

No Change Required.