Change Order Form

**Origination Date** (mm/dd/yyyy): 08/06/2025

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**(NOTE: Originator(s) to complete this section of the form along with Sections 1, 2 and 3)**

1. **CO Name/Description:** **SPID Migration SV Counting**

**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 | Y | N | N |

1. **Business Need:**

Although the SPID Migration Quota – All regions tunable was increased from 25 to 49 migrations/week in March, 2025, Service Providers are scheduling more SPID Migrations than desired across available SPID migration windows to stay under the current maximum SV record count of 500,000 per region, as defined by the regional SPID Migration Quota – SVs tunable. This spreading out of SPID Migrations caused by the current SPID Migration SV quota causes additional workload on teams to manage and coordinate migration activities, including the HD, the SP’s System Engineers, TN/Code Admins, PMs, LNP PortIn/PortOut teams, and the SP’s network providers.

The SPID Migration Quota – SVs tunable currently defines the maximum number of SVs within a region for a given SPID Migration maintenance window, but the SV/NPB records that may be migrated by the NPAC SMS can differ from the records migrated by a local system. Local systems manage SV records for non-pool SVs (LNP Type of LSPP and LISP) and also manage NPB records. Since pool SVs (LNP Type of Pool) are not sent to or maintained by local systems, including pool SVs in SPID migration quotas can limit the overall number of local system records that can be updated in weekly SPID migrations. In contrast, the NPAC SMS does maintain pool SV records in addition to the non-pool SV and NPB records managed by local systems, so the quantity of pool SVs that need to be updated during a SPID migration continues to be a consideration for the LNPA.

Because the number of records migrated by local systems and NPAC SMS can differ significantly, and because the SPID Migration calendar fills up as SPs spread out SPID Migrations to stay under the current SV quota, the industry could benefit by using different SPID Migration quotas to represent an NPAC SMS maximum and a local system maximum.

See also PIM 156.

1. **Description of Change:**

This change order adds a new regional system tunable, SPID Migration Local System Quota – SVs, to define the maximum number of ported SVs (LNP Type of LSPP and LISP) plus NPB records that local systems can migrate per region during a given SPID Migration maintenance window. The default value of the new quota tunable will be 500,000. The existing regional SPID Migration Quota – SVs tunable will continue to limit the number of SVs, counting both ported and pool SVs, that the NPAC SMS can process per region during a given SPID Migration maintenance window, but this change order also increases the value of the existing regional SPID Migration Quota – SVs from 500,000 to 750,000 SVs. Having these two separate tunables with the difference in how the quota counts are calculated allows for more non-pool SVs to be migrated while also setting a limit on the overall processing expected of the NPAC region.

NPAC SMS will recalculate and compare the new regional SPID Migration maintenance window ported SV plus NPB counts to the new SPID Migration Local System Quota – SVs in the same manner as currently performed for the ported plus pooled SV counts and the existing regional SPID Migration Quota – SVs. Existing FRS requirements that enforce the SPID Migration quotas or indicate counts should be recalculated are generic and include all SPID Migration quotas, so most requirements do not need to change. The FRS does include a requirement regarding which counts and quotas shall be presented in the NPAC Low-Tech Interface, and this change control updates that requirement. In addition, the SPID Migration Report produced following the execution of a SPID migration, which currently lists the quantity of ported plus pooled SVs and NPBs, by LRN, that were migrated, will be updated to reflect just the ported SVs (LNP Type of LISP and LSPP) and NPBs, by LRN.

Finally, this change order updates the valid range of the SPID Migration Quota – All Regions regional tunable to catch up to the agreement in the January, 2025, NPIF meeting to increase the value of the tunable from 25 to 49 migrations/week, which was later implemented in March, 2025.

**FRS:**

**Section 3.2.2.2, SPID Migration Online GUI (NANC 408)**

[snip]

RR3-562 SPID Migration Update – Migration Summary Information

NPAC SMS shall, via the NPAC Low-Tech Interface and NPAC Administrative Interface, show the following information for each maintenance day: (previously NANC 408, Req X7)

* Maintenance date
* Total ported plus pooled SV count for pending and approved migrations
* Total ported SV plus NPB count for pending and approved migrations
* Total number of migrations in the region for pending and approved migrations
* Total number of migrations for all regions for pending and approved migrations
* Total NPAC and local system quotas for SV counts and migration count in each region and migration count for all regions

[snip]

RR3-602 SPID Migration Update – Quota Management

NPAC SMS shall apply quotas to SPID Migration operations for Total US SPID Migrations, Total Regional Migrations, and Regional SV Counts when NPAC Personnel approve or cancel a SPID migration. (previously NANC 408, Req X34)

RR3-603 SPID Migration Update – Quota Management – Quota Exceeded Rejection for Service Provider Personnel

NPAC SMS shall check quotas to SPID Migration operations when a Service Provider creates or modifies a SPID Migration and reject the request if any of the quotas have been exceeded. (previously NANC 408, Req X35)

RR3-604 SPID Migration Update – Quota Management – Quota Exceeded Warning for NPAC Personnel

NPAC SMS shall check quotas to SPID Migration operations when NPAC Personnel creates or modifies a SPID Migration and provide a warning if any of the quotas have been exceeded. (previously NANC 408, Req X35.5)

RR3-605 SPID Migration Update – Quota Management – Quota Exceeded Warning Content

NPAC SMS shall include the Pending and Approved counts for all exceeded quotas in the Quota Exceeded Warning Message. (previously NANC 408, Req X36)

[snip]

RR3-612 SPID Migration Update – SV Quota Tunable Parameter

NPAC SMS shall provide a SPID Migration SV Quota tunable parameter, which is defined as the maximum number of SVs, including ported SVs and pooled SVs,that NPAC SMS can process within a region for a given SPID Migration maintenance window. (previously NANC 408, Req 35)

NOTE: The quantity of SVs can be dynamic, so the quantity is based on the number of SVs for a given migration at the time of the SPID Migration request. For subsequent migrations in a given window, the previous SPID Migration SV quantities are not recalculated. Modifying a SPID Migration will cause SV quantities to be recalculated.

RR3-613 SPID Migration Update – SV Quota Tunable Parameter Default

NPAC SMS shall default the SPID Migration SV Quota tunable parameter to seven hundred fifty thousand (750,000) SVs. (previously NANC 408, Req 36)

RR3-614 SPID Migration Update – SV Quota Tunable Parameter Modification

NPAC SMS shall allow NPAC SMS Personnel, via the NPAC Administrative Interface, to modify the SPID Migration SV Quota tunable parameter. (previously NANC 408, Req 37)

Req 1 SPID Migration Update – Local System SV Quota Tunable Parameter

NPAC SMS shall provide a SPID Migration Local System SV Quota tunable parameter, which is defined as the maximum number of ported SVs (LNP Type of LSPP and LISP) plus NPBs that can be migrated by local systems within a region for a given SPID Migration maintenance window.

NOTE: The quantity of SVs can be dynamic, so the quantity is based on the number of SVs for a given migration at the time of the SPID Migration request. For subsequent migrations in a given window, the previous SPID Migration SV quantities are not recalculated. Modifying a SPID Migration will cause SV quantities to be recalculated.

Req 2 SPID Migration Update – Local System SV Quota Tunable Parameter Default

NPAC SMS shall default the SPID Migration Local System SV Quota tunable parameter to five hundred thousand (500,000) SVs.

Req 3 SPID Migration Update – Local System SV Quota Tunable Parameter Modification

NPAC SMS shall allow NPAC SMS Personnel, via the NPAC Administrative Interface, to modify the SPID Migration Local System SV Quota tunable parameter.

[snip]

**RR3-630 SPID Migration Suspension/Un-suspension – No Quota Change**

NPAC SMS shall not adjust its quotas on a maintenance day when a SPID Migration scheduled to this date is suspended or un-suspended. (previously NANC 408, Req X56)

[snip]

**Section 3.2.2.4 SPID Migration Reports (NANC 418)**

RR3-648 SPID Migration Reports – Post-Migration SV and NPB Count Report

NPAC SMS shall support a migration-specific SPID Migration Report that lists each designated LRN for the SPID Migration, and the associated quantity of ported SVs (LNP Type of LSPP and LISP) and NPBs, for each LRN, that were updated by the NPAC SMS during the SPID Migration. (previously NANC 418, Req 1)

[snip]

**Appendix C. System Tunables**

Modify the existing SPID Migration SV quota tunable and add a new SPID Migration Local System SV quota tunable as shown below:

| **Spid Migration Tunables** | | | |
| --- | --- | --- | --- |
| **Tunable Name** | **Default Value** | **Units** | **Valid Range** |
| <snip> | | | |
| **SPID Migration Quota – All Regions** | 25 | Migrations | 1-99 |
| The maximum number of SPID Migration timeslots for all region for a given SPID Migration maintenance window. | | | |
| **SPID Migration Quota – SVs** | 750,000 | Records | 100,000 – 999,9999 |
| The maximum number of ported and pooled SVs (LNP Type of LSPP, LISP, and POOL) that NPAC SMS can migrate within a region for a given SPID Migration maintenance window. | | | |
| **SPID Migration Local System Quota – SVs** | 500,000 | Records | 100,000 – 999,999 |
| The maximum number of ported SVs (LNP Type of LSPP and LISP) plus NPBs that local systems can migrate within a region for a given SPID Migration maintenance window. | | | |
| <snip> | | | |

Table C–7 – SPID Migration Tunables

**IIS:**

No Change Needed.

**EFD (IIS APPENDICES A AND B):**

No Change Needed.

**GDMO:**

No Change Needed.

**ASN.1:**

No Change Needed.

**XIS:**

No Change Needed.

**XSD:**

No Change Needed.