Problem/Issue Identification and Description

**Submittal Date** (mm/dd/yyyy): 07/12/2022 **PIM # 147**

**Company(s) Submitting Issue**: NANPA (Somos)

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

1. **Problem/Issue Statement:** (Brief statement outlining the problem/issue.)

NANPA is in the process of developing a new system that will combine the functionality provided today in the existing NANP Administration System (NAS), Pooling Administration System (PAS) and Routing Number Administration System (RNAS) into a single system as required per Section 1.5 of the Combined NANPA/PA Technical Requirements Document (“TRD”) which states one of the main objectives of the NANPA is to *“Develop and implement a single system to facilitate all activities of the NANPA/PA and the assignment, tracking, and data reporting requirements for all Numbering Resources”*.   
  
As required per Section 2.6. of the TRD *“The NANPA/PA shall maintain a direct and mechanized interface to the Number Portability Administration Center (NPAC) to transmit and access data that the NANPA/PA needs to perform its responsibilities. The data shall be obtained from the NPAC administrator per the details defined by the North American Portability Management, Limited Liability Corporation (NAPM LLC) that oversees the vendor of the local number portability systems and administration or as otherwise provided by FCC requirements.”*. The existing mechanized interface that is used today between PAS and the NPAC is the SOAP API interface. The SOAP API interface enables the NPAC to automatically retrieve and update the Part 1B and Part 5 work items created for new thousands-blocks, modifications to existing thousands-blocks and thousands-block disconnects that are requested by the service providers.   
  
The existing SOAP API interface will not be backwards compatible with the new system. For the NPAC to continue to use a SOAP API interface with the new system, changes are required by NPAC to align with the new system requirements.

1. **Problem/Issue Description:** (Provide detailed description of problem/issue.)

A. Examples & Impacts of Problem/Issue:

Below are relevant sections of the ATIS Industry Numbering Committee (INC) Thousands-Block (NPA-NXX-X) & Central Office Code (NPA-NXX) Administration Guidelines (TBCOCAG) outlining the process of when a Part 1B and Part 5 is sent to the NPAC:

*7.1.18*

*The PA issues the Part 3A to the SP and issues the Part 1B to the NPAC as confirmation of Thousands-Block Allocation. A Part 1B is not issued for Thousands-Blocks associated with Pooled CO Code applications.*

*8.1.8*

*The requested changes should be submitted via the Part 1A Thousands-Block (NPA-NXX-X) Application, and when necessary, the Part 1B NPAC Thousands-Block Data.*

*8.2.4 d)*

*submit a Part 1A Thousands-Block (NPA-NXX-X) Application modification to the PA after Thousands-Blocks are Assigned if the Part 1B NPAC Thousands-Block Data needs updating because the CO Code Holder is retaining multiple Thousands-Blocks and the routing information for one or more of those Thousands-Blocks is different than the Pooled CO Code routing information. The PA forwards the Part 1B to the NPAC after processing the modification;*

*9.1.1*

*The requested changes should be submitted via the Part 1A Thousands-Block (NPA-NXX-X) Application, and when necessary, the Part 1B NPAC Thousands-Block Data.*

*9.1.5*

*Changes, corrections, modifications and updates made to Number Portability Administration Center (NPAC) information on the Part 1B may cause a change to the original requested Effective Date on the Thousands-Block(s). It is recommended that the SP, in addition to making updates in the appropriate fields, state in the “Comments” field of the Part 1A and Part 1B the type of change being requested. An updated Part 1B shall be forwarded to the NPAC.*

*9.1.6*

*When a correction to the “For Information Only” field is needed, it is the responsibility of the SP to send in a modification request to the PA via the Pooling Administration System (PAS) to update the Thousands-Block record information. The updated Part 1B shall be forwarded to the NPAC.*

*13.1.1 d)*

*PA forwards the completed Part 1B NPAC Thousands-Block Data to the Number Portability Administration Center (NPAC).*

*13.1.1 i)*

*NPAC forwards the completed Part 1B to the SP and PA.*

*13.2.1*

*In cases where the ISP Block Port application was submitted in the Pooling Administration System (PAS), the SP shall submit any Switching Entity/POI or Part 1B NPAC Thousands-Block Data modification and any disconnects to the ISP ported Thousands-Block through PAS using the Modify ISP Block Port Request or Disconnect ISP Block Port Request functions in PAS.*

Today, PAS currently provides the ability for NPAC to process the works items directly in the system via the User Interface (UI) in addition to the SOAP API interface. This UI functionality will also be available in the new system in addition to the SOAP API interface which NANPA and NPAC agreed to as the mechanized interface.

If the NPAC is unable to make changes to support the SOAP API interface to retrieve and update the Part 1B and Part 5 work items in the new system, the industry will need to look at an alternative solution to the SOAP API interface that would not impact the service providers requested updates in NPAC.

B. Frequency of Occurrence:

NANPA’s core hours of operation is Monday through Friday, 8am ET to 8pm ET, majority of the Part 1B and Part 5 work items will be created during this window, however based on workload, Part 1B and Part 5 work items may be created after hours and on the weekends.

Today, the NPAC retrieves and updates the Part 1B and Part 5 work items using the SOAP API interface nightly.

In 2021, 103,810 Part 1B work items were created and 18,051 Part 5 work items were created. So far in 2022 (through June 28) 43,456 Part 1B work items have been created and 11,368 Part 5 work items have been created.

1. NPAC Regions Impacted:

Mid Atlantic \_\_\_ Midwest\_\_\_ Northeast\_\_\_ Southeast\_\_\_ Southwest\_\_\_ Western\_\_\_

West Coast\_ ALL X

D. Rationale why existing process is deficient:

The new system has been redesigned, it will not be using any of the existing code or databases from the existing systems. The API will be rewritten with a newer version of technology that uses SOAP API and based on the new database structure, including improved security requirements; changes to the username and password credentials; and changes to the Part 1B and Part 5 form fields that were made by INC. The SOAP interface requires updates to the API message format to support these changes.

For these reasons, the existing SOAP API interface will not be backwards compatible in the new system.

E. Identify action taken in other committees / forums:

As part of the process of developing a new system, NANPA submitted issues to INC to consolidate and update existing TBCOCAG related forms that will streamline the process of requesting thousands-blocks and CO codes in the new system (refer to INC Issue 897).

NPAC also requested changes related to the Override NPAC Validation field in PAS (refer to INC Issue 913 and 927).

Any changes impacting the TBCOCAG, will require an issue to be submitted to ATIS INC requesting the change.

F. Any other descriptive items:

The new NANP Administration System (NAS) is scheduled to go live during 4Q2024 and testing of the SOAP API interface between the NPAC and the new system will be available in Q12024.

All Part 1B and Part 5 work items that are in process for all NPAC regions will migrate to the new system at the time of cutover to the new system.

1. **Suggested Resolution:**
2. **Final Resolution:**

**NPIF (only)**

PIM #: 147 Final Resolution Date:

Related Documents:

Issue Resolution Referred to:

Why Issue Referred: