LNP Problem/Issue Identification and Description Form

**Submittal Date** (mm/dd/yyyy): 02/25/2020

**Company(s) Submitting Issue**: iconectiv

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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.)

Existing Best Practice 0069 indicates that users should inform the LNPA of large ports – defined as 25,000 or more TNs affected per hour – in advance of such porting activity, so that all service providers can be informed of the activity. The 25,000 TN threshold would result in 7 TN downloads per second to each LSMS, which is equivalent to the entire required throughput rate of the LSMS interfaces. iconectiv suggests that the 25,000 threshold be revisited.

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

A. Examples & Impacts of Problem/Issue:

Given the existing 25,000/TN hour threshold, a “large port” of less than 25,000 TNs/hour does not warrant a notification, even if the large port results in a rate very close to 7 TNs per second to LSMSs. For example, a large port of 24,000 TNs, which would be an effective rate of 6.72 TNs per second to each LSMS, would not warrant a notice, per the existing wording of Best Practice 0069.

iconectiv believes the goal of the Best Practice is to inform users when a significant portion of the required capacity of the NPAC and LSMSs systems may be requested by a single user and to allow for coordination of users’ large porting activities relative to other users’ activities, including typical porting volumes.

The LNPA has observed that LSMS systems generally are able to keep up with sustained rates of 7 TNs/sec. This is consistent with the “engineering assumption” made of LSMSs as part of Change Order NANC 397. However, the LNPA has observed that LSMSs systems are generally unable to keep up with sustained rates above the 7 TNs/sec. Furthermore, at certain periods of the day, some LSMS systems are unable to achieve the 7 TN/sec rate. When LSMS systems fall behind NPAC processing, results in failed downloads, which causes failed SP lists for subscription versions and number pool blocks. Users are unable to take subsequent actions (e.g., modifications, activation of subsequent porting actions) on the TNs and thousands blocks that have associated failed SP lists.

B. Frequency of Occurrence:

The rates of porting activities involving 12,000-24,000 TNs/hour for multiple hours by a single user have been increasing over the past several months. In some cases, large port notifications have been sent to inform users of larger ports, even if size of the overall job results in less than 25,000 TNs/hour.

1. NPAC Regions Impacted:

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

 West Coast\_\_\_ ALL X

D. Rationale why existing process is deficient:

Providing transparency into and advanced notice of significant porting activities that run for long durations (i.e., more than a few minutes), allows for all users to coordinate their activities. Additionally, this allows for optimal use of the NPAC and LSMS resources that are shared by all users.

In a scenario where even a single user performs a significant job of 24,000 TNs/hour, other users performing typical porting volumes and/or large ports through the LNPA (i.e., Mass Update / Mass Port requests) could be affected and would have no advanced warning per the threshold set by Best Practice 0069.

As a further example, at the current 25,000 TN/hour threshold, two or three users could simultaneously execute significant porting activities (e.g., 15,000 – 24,000 TNs/hr each) that would result in downloads rates to LSMSs well above the 7 transactions/sec, but Best Practice 0069 would suggest that no notification would be sent to users in advance of such activity.

E. Identify action taken in other committees / forums:

N/A

F. Any other descriptive items:

None

1. **Suggested Resolution:**

iconectiv suggests that Best Practice 0069 be revised to lower the existing 25,000 TN/hour threshold for notification.

1. **Final Resolution:**

Best Practice 0069 was revised to indicate a new threshold of 12,500 TN/hour. The revised best practice was posted to numberportability.com, and related user M&Ps were updated to reflect the new threshold. An email notice was sent to the cross-regional distribution list in March 2020 to inform users of the updates.

**LNPA WG:** (only) Final Resolution Date: 4/7/2020

Item Number: PIM #129 Related Documents: BP 0069

Issue Resolution Referred to: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why Issue Referred: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_