LNP Problem/Issue Identification and Description Form

**Submittal Date** (mm/dd/yyyy): 03/06/2018

**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.)

Based on feedback from a current user of the Neustar NPAC, there appears to be implementation differences between the Neustar and iconectiv NPAC’s implementation of the XML Hold/Replay functionality. This functionality can be used when a SOA or LSMS SPID transitions from using a CMIP implementation to using an XML implementation or is initially onboarding to an XML interfacing system.

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

iconectiv based its implementation of the Hold/Replay XML functionality on the FRS Section 3.17 Customer Onboarding description and stated requirements. iconectiv implemented these requirements for Customers initially onboarding to XML interfacing systems or transitioning from CMIP to XML interfacing systems as per the statement in the introduction “*this feature fills a synchronization gap for service provider systems that are new to the XML interface*”. In customer testing of the Hold/Replay functionality, it was reported that the iconectiv implemented process is different than the incumbent in that the Hold state may be a long duration.

The iconectiv implementation was based on the description in 3.17 and on the current Industry documentation/procedures for CMIP recovery. This implementations includes the use of the current methodology of notifying Industry participants via status/attribute change notifications and when Local Systems are not successful recipients of Network updates they are placed on the Failed SP Lists. The iconectiv implementation for not placing the on boarded XML system on the Failed List was to manage Hold the way recovery operations is treated (i.e., rollup of SVs is held up until the recovering LSMS finishes recovery). That is, given the transition should be brief, the rollup of SV is suspended. Also the current FRS 5.1.1.1 status change transitions do not permit Active SV to revert back to Partial Failed status. Also, not placing an LSMS on Hold for a longer period of time may have operations issues since SPs activating SVs have no way of knowing that the “On-Hold” LSMS/network did not receive the update (is not on the Failed SP list).

The assumptions for the use of BDD/delta BDD for Hold/Replay/Normal are from the description in 3.17 as per the following:

*For a new system synchronizing with the NPAC, this Hold status starts when the delta BDD is created and continues until they have successfully loaded the delta BDD and the system is ready to receive messages from the NPAC. At that time, the provider’s system status will be changed from Hold to Replay. While in Replay status, all messages that are in the hold queue are sent to the provider in the order they were originally created. Any new messages created during this time are placed at the end of the hold queue. When the hold queue is empty, the provider's system status is changed to Normal and synchronization is complete.*

B. Frequency of Occurrence:
As per current documentation may be used whenever SPIDs migrate from using the CMIP interface to using the XML interface.

1. NPAC Regions Impacted:

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

 West Coast\_\_\_ ALL US regions\_X\_\_

D. Rationale why existing process is deficient:
The implemented process is not deficient for the original intended purpose. If the Industry determines that an expanded process is to allow for long periods of Service Providers not being identified as failures for receiving network broadcasts, then a new process should be agreed to and documented by the Industry.

E. Identify action taken in other committees / forums: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F. Any other descriptive items: iconectiv requested the M&Ps used by the incumbent LNPA for the existing Hold / Replay process but was told that XML M&Ps are implementation specific and not publicly available.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Suggested Resolution:**

If the implementation by iconectiv is determined to be an Industry issue to be worked by the LNPA Transition Oversight Subcommittee, then the TOSC should identify/clarify requirements in a NANC Change Order and schedule the Change Order in a future Industry release.

1. **Final Resolution:**

This issue resulted in the creation and acceptance of a NANC Change Order. For further detail refer to the NANC Change Order(s) identified in the Related Documents field below.

**LNPA WG:** (only) Final Resolution Date: 10/28/18

Item Number: PIM 108 Related Documents: NANC 530

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

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