LNP Problem/Issue Identification and Description Form

**Submittal Date** (mm/dd/yyyy): 05/09/2018

**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.)

iconectiv has observed that Audits created with an Activation Time Range are not executing as expected.

1. **Problem/Issue Description:** (Provide detailed description of problem/issue.)
2. Examples & Impacts of Problem/Issue:
iconectiv has observed that when Service Providers request an audit and specify the optional Activation Time Range, the interactions with LSMSs in completing the audit is not as expected. For example:

-- Many LSMSs are on the Failed SP List for the audit (don’t support the SV query request with the activation time range)

-- Some LSMSs ignore the activation time range and return an SV if one exists

-- Additional LSMSs are on the Failed SP List when the audit involves a pooled SV (don’t support the Number Pool Block query request with the activation time range)

-- Most audits involve a single TN, yet some SPs include an activation time range in the audit request for a single TN (if you know the TN, the activation time range does not help since there is only at most one active TN in the NPAC).

The result is that close to ½ of the LSMSs are not participating in the Audit when an activation timestamp is part of the audit request. Therefore the reporting and possible correction of the SVs in the network is not being performed as expected.

The NPAC SMS IIS does indicate that Activation Time Range should be supported for audits. Exhibit 12 from the IIS, on CMISE Primitive Filtering Support for Local System Objects, for the M-GET Primitive (used for the audit) indicates:

TN Query with greaterOrEqual and lessOrEqual and equality must be supported for auditing.

The fields used with greaterOrEqual and lessOrEqual filters are subscriptionTN and subscriptionActivationTimeStamp.

The field used with equality is subscriptionTN.

Filters supported contain either a greaterOrEqual and lessOrEqual filter, or equality filter, for subscriptionTN only or a more complex filter.

The more complex filter uses two criteria for filtering. The first criteria used is greaterOrEqual and lessOrEqual filters with subscriptionTN. The second criteria uses greaterOrEqual and lessOrEqual filters for subscriptionActivationTimeStamp. Both criteria must be matched for the data being queried (logical “and”). The scope for the filters is level 1 only with a base managed object class of lnpSubscription.

There is similar wording for the Number Pool Block object.

Since there were no specific Industry Test Cases associated with Audits with Activation Time Range, this functionality was not tested in certification testing.

B. Frequency of Occurrence:
Whenever an SV audit is created with an activation time range.

1. NPAC Regions Impacted:

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

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

D. Rationale why existing process is deficient: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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E. Identify action taken in other committees / forums: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F. Any other descriptive items: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Suggested Resolution:**

If the industry requires audits with activation time range, Industry Test Cases for audits using activation time range should be defined and LSMS vendors should be re-certified for this capability. If different behavior for audits with activation time range is needed, 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: 6/2/2020

Item Number: PIM 115 v3 Related Documents: NANC 533

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

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