LNPA Transition Oversight Sub-Committee

January 8-9, 2019

Final Meeting Notes

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| **El Segundo, CA** | **Host: ATT** |

**Tuesday/Wednesday January 8-9, 2019**

**Attendance**

| **Name** | **Company** | **Name** | **Company** |
| --- | --- | --- | --- |
| Lisa Marie Maxson | 10xpeople (phone) | Michael Doherty | iconectiv |
| John Skousen | 10xpeople | Pat White | iconectiv |
| Kim Isaacs | Allstream (phone) | Ray Wood | iconectiv |
| David Alread | AT&T | Shanmugavel Krishnan | iconectiv |
| Renee Dillon | AT&T | Bridget Alexander-White | JSI (phone) |
| Teresa Patton | AT&T | Marcel Champagne | Neustar (phone) |
| Kyle Belcher | ATL (phone) | Anand Rathi | Neustar |
| Lisa Jill Freeman | Bandwidth (phone) | David Kesselring | Oracle (phone) |
| Rob Brezina | Bandwidth | Mary Retka | SOMOS |
| Shannon Donohue | Callfire | Tara Farquhar | SOMOS (phone) |
| Nancy Cornwell | Cellcom (phone) | Ann Fenaroli | Sprint |
| Joy McConnell-Couch | CenturyLink | Hollie Carrender | Sprint |
| Glenn Clepper | Charter (phone) | Jeanne Kulesa | Synchronoss (phone) |
| Kathy Troughton | Charter (phone) | Bob Bruce | Syniverse |
| Erik Chuss | ChaseTech (phone) | Rosemary Leist | T-Mobile (phone) |
| Randee Ryan | Comcast | Luke Sessions | T-Mobile |
| Sheri Pressler | Frontier (phone) | Tanya Golub | US Cellular (phone) |
| Wendy Rutherford | GVNW (phone) | Jason Lee | Verizon (phone) |
| Danny Greer | iconectiv | Bale Pathman | Verizon Wireless |
| Deborah Lasher | iconectiv (phone) | Deb Tucker | Verizon Wireless |
| Doug Babcock | iconectiv | Kathy Rogers | Verizon Wireless (phone) |
| George Tsacnaris | iconectiv | Scott Terry | Windstream (phone) |
| John Malyar | iconectiv |  |  |

**LNPA TRANSITION OVERSIGHT SUBCOMMITTEE MEETING MINUTES:**

In order to align more closely with the Federal Advisory Committee Act (FACA) the FCC has received a list of nominees for membership and membership approval was completed. Below are the names of vetted and approved voting members of the LNPA Transition Oversight Subcommittee

LNPA TOSC

Approved Chair Deborah Tucker, Verizon

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| --- | --- | --- |
| **Organization** | **Primary** | **Alternate** |
| 800 Response | David Greenhaus | N/A |
| AT&T | Teresa Patton | N/A |
| ATL | Brian Lynott | N/A |
| Bandwidth.com | Lisa Jill Freeman | Anna-Valeria Kafka |
| CenturyLink | Joy McConnell-Couch | Phil Linse |
| Charter | Glenn Clepper | Allyson Blevins |
| Comcast | Randee Ryan | N/A |
| Cox | Jennifer Hutton | Beth O’Donnell |
| Integra Holdings/Zayo | Kim Isaacs | Laurie Roberson |
| JSI | Bridget Alexander White | N/A |
| LNP Alliance | Dave Malfara | James Falvey |
| Minnesota DOC | Bonnie Johnson | N/A |
| SIP Forum | Richard Shockey | N/A |
| Sprint | Hollie Carrender-Sheppard |  |
| T-Mobile | Luke Sessions |  |
| Verizon | Deborah Tucker | Jason Lee |
| Vonage | Imanu Hill | N/A |
| Windstream | Scott Terry | N/A |
|  |  |  |
|  |  |  |

**November 6-7, 2018 Draft LNPA TOSC Meeting Notes Review:**

The November 6-7, 2018, LNPA TOSC DRAFT notes were reviewed and approved. The notes were issued as FINAL.

**December 5, 2018 Draft LNPA TOSC Conference Call Notes Review:**

The December 5, 2018, LNPA TOSC DRAFT notes were reviewed and approved. The notes were issued as FINAL.

**Updates from Other Industry Groups:**

**OBF (ORDERING AND BILLING FORUM COMMITTEE) - Randee Ryan – Comcast**

**WIRELESS SERVICE ORDERING SUBCOMMITTEE**

The committee has not met since the last TOSC Meeting in November.

The next meeting is scheduled for January 30, 2019 3-4 EST

**LOCAL SERVICE ORDERING SUBCOMMITTEE**

The Local Service Order Subcommittee met November 9th, 2018, December 4, 2018 and January 3rd, 2019. The subcommittee changed the Publish date of the LSOG from 4Q18 to 1Q19. The Release is now scheduled for January 31, 2019. The subcommittee put the final Issue into Initial Closure for the LSOG 1Q19 Release. The committee is looking for new carrier members to attend meetings.

OBF LSO will not attend AMOC.

**Next Meetings:**

LSO will meet January 24, 2019 1pm EST to 3pm EST

**INC (Industry Numbering Committee) – Michael Doherty**

INC conference call on December 5, 2018

**Discussion Points:**

* Issue 839, Combine the Central Office Code (NXX) Assignment Guidelines (COCAG) and the Thousands-Block (NXX-X) Administration Guidelines (TBPAG) into One Document
  + Initial Closure posting date – Wednesday 1/2/2019
  + Final Closure Date – Wednesday 1/23/2019
  + New Final Documents Posted - Wednesday 1/30/2019
* INC-2018-00172R003, INC Comments on N11 Code/Implementation of National Suicide Hotline Improvement Act of 2018. This revision includes edits from Verizon, Comcast, AT&T and Tom Goode and will be reviewed on the 12/5 VM.
  + This Public Notice seeks comment on the implementation of the National Suicide Hotline Improvement Act of 2018 (the Act), which requires the Federal Communication Commission (Commission) to study and issue a report on the implementation of a 3-digit dialing code for a national suicide prevention and health crisis hotline.
    - Tom Goode (ATIS) led INC in a review of the comments, as contained in INC-2018-00172R003. On December 10, 2018 the comments were filed by ATIS on behalf of INC.

**Next Meetings of INC:**

* INC will meet in Temple Terrace, FL February 26-27, 2019

**NPAC Clean-up Sub-team Update**

* **PIM 118 -** Not Onboarding SPIDs with Active SV data – ongoing work effort
* Recent activity:
  + Removed abandoned codes, LRNs, and disconnected SVs for TNs not is service as approved at the previous LNPA TOSC meeting
  + 44% of the Out Of Business/Did Not Onboard SPIDs that had Active data are now fully resolved (up from 3% in November)
  + Making progress in all areas
* What is left:
  + 145 NPA-NXX Codes across 29 SPIDs assigned to an OCN by NANPA where the SPID is not onboarded
  + One code assigned to a paging company has merged with another company under an OCN that has no SPID
  + 4 codes are assigned to obsolete SPIDs with a small number of SVs ported to other active SPIDs
  + Challenged by active data remaining for the set of SPIDs that started to onboard without completing the process
  + 75 NPA-NXX codes divide into 56 SPID migrations to be scheduled
  + Found an issue related to NANC 453 requirements – SV in a “Disconnect Pending” status was left off of the set of allowable status values to permit deletion of an unused SPID (as the Old SPID). A Change Order is needed to correct this issue.
  + The sub-team will meet in January to discuss all of these items.
* Reminder: all NPAC Users and PTRS Users should remember that in addition to all the SPIDs that are in the Regional databases, there is another set of SPIDs/Companies that are valid NPAC Users – fully authorized to received NPAC Data – but whose SPIDs are not in any Regional database. These SPIDs are published in a report available in the Knowledge Base of the Customer Portal. This methodology is a carryover from the previous LNPA vendor.
* **New Action Item 01082019-01:** **iconectiv LNPA to create a Change Order to add a requirement to include Disconnect Pending items to allow the Old SPID to be deleted.**  **This will be a modification of language in NANC 453.**
* See attached presentation provided during the meeting
* 

**Transition Business**

**Release Documentation Versions Overview**–

* 4.1a version represents the iconectiv implementation at Transition
* 4.1b version represents the NPAC October 2018 deployed software release which included:
  + Support of decommissioned SPIDs (NANC 453)
  + Modify Pending SV Attribute Value Change notifications (NANC 527)
* 4.1c (potential) version placeholder for 2019 software release
* 5.0 documentation release being worked as part of the 2020 software release (release interface recompile for closing sunset items) currently being discussed in NANC 528 (see below for additional information)

**Continued Future Release Planning**

* NPAC/SMS Sunset Change Orders Next (Final) Steps – iconectiv presented
* 
* Final specifications will need to be available by June of 2019 to provide 6 months to plan for 2020 activities. Spring of 2020 is the testing period.
* The impacted vendors asked to have more time to review the documents due to the holiday break. iconectiv would like to close the discussions on this by mid-year.
* Neustar checked to see if the non-backward compatible items could be done first and then address the other items later.
* iconectiv LNPA noted that we haven’t had a sunset before and we must do a flash cut.
* Neustar also mentioned that they want to start up the CMIP shutdown discussion later. The majority of the systems in place are CMIP based right now. These discussions will need to take place separately from the LNPA Transition Oversight Subcommittee meetings since it is not a Transition related topic.
* The group noted that the flash cut would be all seven regions on the same day and when we come out of the maintenance window all would have the same release version.
* We are progressing our transition work to complete work to tie up loose ends and to have a complete set of documents that match the interface.
* ATT commented on vendor certification testing comments – given this is vendor certification at different levels, the vendors need to understand what version levels are impacted.
* Participants stated that NANC 494 for SPID delegation should be included in the 2020 release so the workaround in place can be stopped.

**ASN.1 and GDMO Recompilation Discussion – NANC 528 v3**

* iconectiv sent out a draft of the GDMO, ASN.1, XIS, and Mnemonics documents in December, but due to the holidays, the vendors all requested more time to review the documents.
* The group discussed GDMO changes reflected in the 4.1x 202 draft.
  + Lisa Marie Maxson, 10XPeople, will check on range notifications in CMIP (GDMO change)
* The group discussed ASN.1 changes reflected in the 4.1x 2020 draft.
  + The CMA proposed changes for the ASN.1 associated with CMIP messages for the 2020 release primarily associated with the sunset of features.  In addition to providing feedback on all of the changes, please review the proposed changes for the following structures and provide applicable feedback:

1.       *NetworkNotificationRecoveryReply*structure, for the lsms element.

2.       *SVType structure*

* + **New Action Item 01082019-02:** **Vendors to provide feedback on ASN.1 Network Notification Recovery Reply structure – LSMS notification choice**
  + **New Action Item 01082019-03:** **Vendors to provide feedback on ASN.1 SV Type Structure Choice value**
  + It was mentioned that allowing a CHOICE of 1 may limit the impact to LSMS vendors.
  + Vendors are asked to consider both points of view for Local Vendor impacts and what this change might mean for the NPAC vendor or future NPAC vendor(s). Keep all points of view in mind.
* The group discussed XIS changes reflected in the 4.1x v.1.7.0 2020 draft.
* The group discussed XSD changes reflected in the NPAC XML Schema 4.1x v1.71 2020 draft.
* The group discussed XML mnemonics changes reflected in the v1.7.0 4.1x 2020 draft.
  + **New Action Item 01082019-04:** **General Action Item for vendors to review all of the GDMO, ASN.1, XIS, XSD, and XML documents and provide feedback.**
* The group will discuss/review changes monthly with a target to have all changes finalized by mid-year. A call will be held February 6th to get additional feedback regarding the changes.
* XML changes are needed because of the sunset items along with results of testing as part of the transition.
* The release will require vendor certification and upgrading is not optional. All providers need to be prepared to have to migrate to new versions of software if they are on an older version that needs to be updated for recompilation. If a vendor doesn’t support the upgraded version, they will not be certified and will not be allowed to connect to the NPAC.

**Group/Round Robin Test Plan Updates (NANC 521)**

* The updated SP Group Test Plan document draft was reviewed with added clarification from ATT.
* **Action Item 11062018-02:** ATT to propose language to add clarity re: prerequisites for testing and details on who can/cannot participate. **Closed**

**Change Management Summary - Change Management Administrator**

**Change Order Summary Review**

* Change Order Summary – Open COs – iconectiv CMA reviewed the updates to the document with the group.
* Change Order Summary – Implemented COs – iconectiv CMA reviewed the updates to the document with the group.

**Change Order (Open) Review –** iconectiv CMA presented additional information on CO status

* **NANC 449 v13 – Active-Active SOA connection to NPAC – same SPID**
  + Service Providers are still reviewing the documentation and more iterations are needed.
* **NANC 457 v2 – SPID Migration TN Count –** this Change Order was not written correctly and does not address the original issue properly. The way it is written doesn’t provide a viable solution to the problem/issue. Participants agreed the Change Order is no longer needed and closed it.
* **NANC 492 – Sunset Audit Notifications –** SOA vendors were asked for their feedback regarding this Change Order. Participants agreed the Change Order is no longer needed and closed it.
  + **12052018-01:** Regarding Change Order 492 – Sunset Audit Notifications with a goal of saving messaging over the interface – the Change Order is not backwards compatible and all vendors and the NPAC/SMS would have to make a change. The level of effort to make the change and go through testing may not justify the end result. Vendors are to be prepared to provide feedback at the January 2019 LNPA TOSC meeting. **Closed**
* **NANC 497 v1 – NPAC Customer ID in CMIP Key Exchange Files**
  + **11062018-03:** local vendors to provide information on what they do today. CMIP Local System Vendors are to identify how they populate this first field (NPAC Customer ID) in the key exchange and acknowledgement files they send to NPAC and receive from NPAC. **This Action Item remains open.**
  + Documents need to reflect what is implemented today.
  + The group is still collecting information from vendors. There will be local system impacts and it may be tied together for the 2020 release. Someone will be impacted by this depending on the direction that is taken for key exchange and acknowledgement files.
* **NANC 534 – Reference Data Updates for New NPA-NXX –** this Change Order can be closed once the ATIS INC finalizes their TBCOCAG issue.
* **New issues**
  + Should a new PIM be created re: Override NPAC validation field allows the code holder to enter a block request without entering an LRN. Somos suggested we work this out between Somos and iconectiv.
  + Should a new PIM be created re: Blocks and Codes being created within the 10 days outlined in the COCAG. No action item. Suggestion was to discuss this at INC.

PIM and Change Order Review

* PIM 102 (NANC 504)
  + **11062018-04:** Local System vendors to provide feedback on whether PIM 102 (Change Order 504) is still needed and if there is value in getting the object information during the modify (related to AI 09122017-05).  **Open**
* **09122017-05:** Change Order 504 modifications to address PIM 102 (updated verbiage)
* Current NPAC SMS Specifications on Recovery of SVs that were modified are not clear on the data that is recovered.  Clarity is needed so that CMIP LSMS Users can successfully recover SVs that were modified when the LSMS was down.
* Upon evaluation by the industry, it became apparent that only one LSMS had a dependency on the different interpretation.  Given the limited value by only one LSMS taking advantage of that implementation and the increased risk to the industry to modify the new NPAC implementation and recertify all of the LSMS’, the industry decided to not support the CO during transition and to request the one LSMS to remove its dependency.
* Given the potential value if all LSMS’ implemented the behavior, the industry determined this would be a potential future discussion item for the industry post transition.
* ONGOING
  + - Oracle – Doesn’t see a need
    - 10X – Doesn’t see a need
    - iconectiv – Doesn’t see sufficient value
    - *Note: Neustar – provided an update after the meeting stating PIM 102 is not needed*
* NANC 403 -  Only allow Recovery Messages to be sent during Recovery
  + The status of NANC 403 was moved back to Open status as discussed on the December 5th conference call.
    - **12052018-02**:  Regarding Change Order 403 – Only allow Recovery Messages to be sent during Recovery – The impacts of this Change Order need to be understood given it has been recently identified that some local Vendor(s) send recovery requests messages after recovery complete notification has been issued. Service Providers are to discuss this situation with their SOA and LSMS vendors to determine the impact of moving forward with this change for the January LNPA TOSC meeting.  **Open**
    - Neustar asked if anyone using an XML interface has shown anyone not following the process properly and iconectiv LNPA responded that there doesn’t seem to be any issues with PIM 108 and Hold/Replay processing for XML.

Disaster Recovery Failover exercise

This exercise will take place in February (23rd and 24th). A couple of notices have gone out and the process will be very similar to what was done in the past. An extra layer of outreach was done for direct connected systems.

Change Order (Requested) Prioritization List Review

Due to the government shutdown, prioritization was not discussed and no polling of participants took place.

* Review of Change Orders in Requested status included:
  + NANC 517 – turn up test plan. There are impacts to the test plan that were reviewed with the group.
  + NANC 525 – MUMP mass pooling – create and modify blocks allowed in the templates/update process.
  + NANC 533 – Audits with activation timestamp range – the near term solution in NANC 533 proposes the activation timestamp range to be ignored if specified in audit requests such that all LSMSs will participate in the audit. In the long term, the industry still needs to come to consensus on what needs to be done. For now the existing interface can continue with knowledge that the side effect doesn’t cause any ill effects. This could become a sunset item in the future (remove the activation timestamp from the audit request on the interface) or changes can be made to support the process (LSMSs will need to support the activation timestamp in audit requests). This is currently an optional test during certification.
  + NANC 534 – doc only change for reference data updates (open until the INC TBCOCAG issue is final). There is now the other side where certain SPs aren’t following the guidelines and codes aren’t being opened as soon as they should. Companies to work with INC reps (if impacted) to get the message out to the carriers that aren’t creating codes quickly enough.
  + NANC 535 SP delete for altspid and last altspid on SV record. Deletes aren’t being done if an obsolete SPID deletion is processed but it still exists on SV records as an alt or lastalt SPID. About 20 obsolete SPIDs were found in the altspid fields. There are just a handful of SVs out there and many are just 1 per SPID. There are others where the obsolete SPID is on hundreds of thousands of records. That will be handled with the NPAC Clean-up sub-team. NANC 535 proposes expanded validation to prohibit a SPID from being deleted if it exists on SVs in the alt/lastalt SPID field(s).
  + NANC 536 MUMP related enhancement for emails to be sent to multiple addresses
  + NANC 537 MUMP due date processing for MUMP files

Release 4.1a Vendor Certification/Regression Test Plan review

* Chapters 9, 10 & 12 were sent out prior to and discussed during the meeting.
* Chapter 11 will take more time to update.
* Remaining chapters to be presented at the March LNPA TOSC meeting.

# Review of Other Outstanding Action Items:

* + - **LNPA TOSC Chair Action Item:**
      * **01092018-01:** Deb Tucker to discuss with the FCC DFO requirements regarding proper reference of this NANC Sub-Committee and to see if use of “LNPA WG” may continue. This item remains open.

**Service Provider/Local System Vendor Action Items:**

* + - * **11062018-07:** Due to the abbreviated review of the documents, all Vendors & SPs are asked to review and provide comments (if needed) on the redlined testing documents. **Open**

**Unfinished/New Business:**

None discussed

**January 8-9, 2019 Meeting Adjourned:**

Having completed the agenda for the January 8-9, 2019, LNPA Transition Oversight Sub-Committee meeting the meeting adjourned.

***Conference Call…February 6, 2019 10 – 12 ET***

***Next Full Meeting…March 5-6, 2019: Location Tampa, FL…Hosted by Syniverse***