LNPA Transition Oversight Sub-Committee

July 10-11, 2018 Meeting

Final Meeting Notes

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| **Denver, CO** | **Host: CenturyLink** |

**Tuesday/Wednesday July 10-11, 2018**

**Attendance**

| **Name** | **Company** | **Name** | **Company** |
| --- | --- | --- | --- |
| John Skousen | 10xpeople | John Malyar | iconectiv |
| Lisa Marie Maxson | 10xpeople (phone) | Michael Doherty | iconectiv |
| Kim Isaacs | Allstream/Integra (phone) | Pat White | iconectiv |
| Renee Dillon | AT&T | Steve Koch | iconectiv |
| Teresa Patton | AT&T | Carolee Hall | Idaho PUC (phone) |
| Kyle Belcher | ATL | Bonnie Johnson | Minnesota DOC (phone) |
| Anna Kafka | Bandwidth | Lynette Khirallah | NetNumber (phone) |
| Lisa Jill Freeman | Bandwidth (phone) | Anand Rathi | Neustar |
| Rob Brezina | Bandwidth | Marcel Champagne | Neustar (phone) |
| Nancy Cornwell | Cellcom (phone) | Shannon Sevigny | Neustar Pooling (phone) |
| Joy McConnell-Couch | CenturyLink | Mary Retka | SOMOS |
| Glenn Clepper | Charter (phone) | Ann Fenaroli | Sprint (phone) |
| Kathy Troughton | Charter (phone) | Hollie Carrender | Sprint |
| Erik Chuss | ChaseTech (phone) | Bob Bruce | Syniverse (phone) |
| Randee Ryan | Comcast | Luke Sessions | T-Mobile |
| Tim Kagele | Comcast (phone) | Rosemary Leist | T-Mobile (phone) |
| Sheri Pressler | Frontier Com (phone) | Amanda Molina | Townes Telecom (phone) |
| Wendy Rutherford | GVNW (phone) | Tanya Golub | US Cellular (phone) |
| Deborah Lasher | iconectiv (phone) | Bale Pathman | Verizon Wireless (phone) |
| Doug Babcock | iconectiv | Deb Tucker | Verizon Wireless |
| George Tsacnaris | iconectiv | Kathy Rogers | Verizon Wireless (phone) |

**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 | N/A |
| LNP Alliance | Dave Malfara | James Falvey |
| Minnesota DOC | Bonnie Johnson | N/A |
| SIP Forum | Richard Shockey | N/A |
| Sprint | Suzanne Addington |  |
| T-Mobile | Paula Campagnoli | Luke Sessions |
| Townes Telecommunications Service Corp. | Amanda Molina | N/A |
| Verizon | Deborah Tucker | Jason Lee |
| Vonage | Imanu Hill | N/A |
| Windstream | Scott Terry | N/A |
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|  |  |  |

**June 5-6, 2018 Draft LNPA TOSC Meeting Notes Review:**

The June 5-6, 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 Wireless Service Ordering subcommittee did not meet since the last TOSC meeting.

The next meeting is scheduled for August 15, 2018

**LOCAL SERVICE ORDERING SUBCOMMITTEE**

The Local Service Order Subcommittee meeting scheduled for June 21st was rescheduled for July 9th, 2018.

**Next Meetings:**

LSO will meet

* + August 15, 2018 200 pm ET – 3:00 pm ET

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

INC did not meet in person after the last LNPA TOSC meeting in June, but did participate in 2 virtual meetings (June 26th & 29th). These were joint meetings of INC, NGIIF, and PTSC to identify feedback to the FCC public notice calling for input for a report on robocalling.

**Next Meetings of joint team:**

* Joint team (INC NGIIF and PTSC) will hold two virtual meetings. July 10, 2018 & July 16, 2018 to continue work on comments regarding robocalling.
* It was noted that the FTC recently hosted a workshop in Washington, DC for carriers offering robocalling mitigation techniques. It was suggested that a list of services being offered today may be available from that meeting and could help in addressing the item to list the diverse robocalling solutions currently available.
  + Diverse robocall solutions currently available (app based, network based, analytics)
  + Comments will be filed July 20, 2018

**Next Meetings of INC:**

* INC will meet in Denver CO July 17-18, 2018

**Agenda to include:**

* Voting for co-Chairs of INC
* Work to continue on consolidation of TBPAG & COCAG documents
* New Issues for discussion include:
  + Clarifications to the 9YY NXX guidelines
  + Updating of TBPAG Part 1B Form to show information for new NPAC
  + Recorded announcements for overlay NPAs

**Action Item Status/Updates**

**ACTION ITEMS OPENED DURING THE JUNE 5-6, 2018 LNPA TOSC MEETING:**

* **06052018-01: Review timer based test cases when Group/RR Test Cases are added to the test plan (NANC 521).** iconectiv will address this as part of NANC 521 and it will be discussed over a few meeting cycles after the Hold/Replay issues from PIMs 108 and 112 are progressed. **Ongoing**
* **06052018-02:** Regarding Change Order 504 modifications; iconectiv to provide verbiage for the Chairperson to add to the meeting agenda regarding this PIM to describe what needs to be discussed.

The following paragraph was extracted from the Business Needs section of the draft Change Order NANC 504: 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.

Industry discussion recap:

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.

This **Action Item was closed** and additional detailed language will be added to PIM 102.

* **New Action Item 07102018-01: iconectiv will add clarifying language to PIM 102 related to CMIP LSMS users being able to successfully recover SVs that were modified when the LSMS was down.**
* **06052018-03:** iconectiv to provide additional detail with timeframes on the iconectiv process for adding new codes to the NPAC. The attached presentation was discussed and it was mentioned that iconectiv did not take into account the 10 day window that is in the INC COCAG. **Closed Action Item.**



* **New Action Item 07102018-02: iconectiv CMA will open a PIM to reconcile the COCAG and FRS requirements regarding adding new codes in the NPAC.**
* **06052018-05:** iconectiv to split the Implemented Change Order Summary document into two parts. Part 1 will end with Release 3.4.8f and Part 2 will begin with Release 3.4.8f and go to the new items implemented with the 4.1 Release. iconectiv reviewed their Document Versioning – 07102018\_TOSC Final.pptx presentation during the meeting and agreement was reached on the document versioning. **Closed Action Item.**
* **06052018-06:** iconectiv to create Doc Only CO NANC 524 to correct requirement RR3-780 in the FRS to reflect the current implementation. The NANC 524 – MUMP File Layouts – Near Term.docx file was reviewed. **Closed Action Item.**
* **06052018-07:** iconectiv to create Doc Only CO NANC 525 to provide additional detail on MUMP files and file format in the Appendices of the FRS. This will be similar to the detail provided for BDD and SMURF files. The attached document was reviewed. **Closed Action Item.**
* **06052018-15:** iconectiv CMA to update Best Practice 73 to use consistent language throughout to reference unauthorized port flows.Best Practice 73 was updated and the document will be kept as an MS Word document for consistency among the posted documents. It was mentioned that the industry site could use some updating. If the industry wants to do a cleanup, we can investigate what would be needed to achieve that goal at a later point in time.
* **New Action Items 07102018-03 and 07102018-04: Lisa Jill Freeman will update the Best Practice 73 MS Word document for iconectiv to post on the website. Both of these action items were completed shortly after the 7/10/18 meeting.**

# Review of Action Items remaining open from previous meetings:

* **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. **No direction from FCC yet**
* **09122017-05:** Change Order 504 modifications to address PIM 102. This item requires more discussion and should be brought up in future meetings. iconectiv suggested that since it might implicate changes to local systems, it should be deferred until after the transition but that iconectiv would support whenever the industry wanted to discuss iconectiv’s recommended two approaches. This item will be kept open to be addressed after Hold/Replay/Recovery items are finalized.
* **03062018-01:** iconectiv to develop a new PIM to address SPID assignment and naming within the FRS. PIM 117 was developed and accepted during the July meeting. **Closed Action Item.**
* **03062018-02:** PEs to determine if failover testing for DR should be a required certification test**. The PEs agreed that DR failover testing should be a required certification test.** **Closed Action Item.**
* **New Action Item 07102018-05: Teresa Patton to develop a new PIM to address DR recertification.**

# Transition Related Work Items

* **Correcting the SPID Type on SPIDs associated with Service Providers but are used for LSMS downloads –** The attached PIM - Customer Types was reviewed. There were no objections to performing this cleanup and the PIM was accepted and assigned PIM #116. iconectiv will work with carriers on the specific changes.



* Re-examination of future dated Pending Ports – The attached PIM - SVs with future due dates was reviewed.
  + There were no objections to having iconectiv reach out to the companies impacted, but iconectiv should take no action other than sending the list to the impacted SPs. Service Providers are encouraged to take action to prevent this type of activity from happening and there is no need for a PIM. iconectiv took an Action Item to work with carriers on any specific changes that are needed.

* + 
  + **New Action Item 07102018-06: iconectiv to work with carriers to cleanup future dated pending ports where necessary.**

SPID Naming Standards – The attached PIM – SPID Naming was reviewed and there were no objections to moving it forward. The PIM was accepted and assigned PIM # 117. The PIM will be updated to include the proposed resolution of placing info on the Knowledge Base. The PIM will be closed when documentation is final.

* + 
  + **New Action Item 07102018-07: iconectiv will develop a naming convention/M&P document that can be posted on the Knowledge Base section of their portal.**
* Cleanup Procedures for “Active Data” – The attached PIM – Not Onboarding SPIDS with Active SV Data was reviewed and there were no objections to moving it forward. The PIM was accepted and assigned PIM # 118.

* + 
  + Teresa Patton will lead a sub-team created to gather more detail on this issue and to determine if the ATIS INC needs to be involved.
  + Shannon Sevigny explained that there is language in the current INC documents regarding abandoned items and steps to notify NPAC when there is a returned or reclaimed block.
  + Michael Doherty will act as liaison to INC and he will be a member of that team. All others interested in being on the sub-team should send an email to Teresa. Patton.

**Change Control – Change Management Administrator**

**Change Order Summary – M. Doherty**

M. Doherty reviewed the three CO Summary documents (Open, Implemented Pre Transition & Implemented Post Transition). The new document format for NANC Change Orders Post Transition - Implemented COs was accepted and will be utilized going forward. Anand Rathi and Lisa Marie Maxson asked for notice of targeted dates for implementation and upcoming changes. The preference is a two week notice cadence.



**PIM and Change Order Review**

* NANC 454 – P. White reviewed the CO changes that will be made to the FRS.
  + Once CO changes are accepted, the FRS will be redlined and reviewed at future LNPA meeting(s).
  + Some discussion took place as to whether an action item should be created to see how the group wants to handle some of these changes and if sunset changes should be removed from the documents. Removing them from GDMO/ASN.1 will require vendors to recompile and perform regression re-certification. It was determined that all sunset changes would be made at the same time and not in separate efforts.
  + CMA to make actual changes to FRS/IIS/XIS for review at future LNPA mtgs.
* NANC 460 – sunset items with no local system impact - P. White reviewed the CO changes that will be made to the FRS. iconectiv needs to create a new change order to strike sunset items from the GDMO.
  + **New Action Item 07102018-08: iconectiv to create a new change order to make GDMO and ASN.1 changes associated with sunset items and required testing.**
  + CMA to make actual changes to FRS/IIS/XIS for review at future LNPA mtgs
* NANC 461 – P. White reviewed the CO changes that will be made to the FRS.
  + Make actual changes to FRS/IIS/XIS for review at future LNPA mtgs.
* NANC 517 – P. White reviewed the CO changes that will be made to the Test Cases.
  + Remove items from Test Cases For Sunset items - should the Test Case be entirely removed from the TUTP or should the objective be left in the document with a statement of “Removed with CO XXX”?
  + Sunsetting single TN notifications had large impact – additional Test Case impacts to be documented in next version of NANC 461.
  + CMA to make actual changes to Test Cases for review at future LNPA mtgs.
* NANC 524 – P. White reviewed this CO
  + J. McConnell-Couch – has had problems with MUMP file process not being smooth. Can NPAC send a notification back to more than one email and can interim job status be sent in email notification?
  + **New Action Item 07102018-09: iconectiv to follow up on the possibility of using more than one email address for MUMP file processing notifications.**
  + This CO (Short Term) is fine, but NANC 525 should be discussed further to outline what the TOSC thinks the requirements should cover.
* NANC 525 – P. White reviewed this CO
  + Current version of this CO only addresses format. Behavior enhancements will need to be gathered and captured in the document
  + **New Action Item 07102018-10: Service Providers to provide feedback during the September LNPA TOSC meeting on what enhancements (features – Mass Block Deletes, Mass Block Creates, etc.) they want to see included in the documentation for the overall MUMP process.**
* PIM 113 & NANC 527 – SPs were to provide feedback under **Action Item 06052018-08. This action item is Closed.**
  + Feedback – we did receive feedback that we can remove this and we do not need to modify the requirements.
  + Move NANC 527 Status to Requested.
* PIM 114 – S. Koch reviewed frequency of occurrence
  + **05092018-01:** Service Providers to provide feedback on expectations related to multiple SVs for the same TN appearing in the SV BDD file. Multiple SVs for the same TN appearing in the SV BDD file does cause a problem for some vendors/providers. **Action Item Closed.**
  + **New Action Item 07102018-11: iconectiv to investigate if there is a secondary sort that will help providers understand which of the multiple TN records should be used and what would be needed to report this information.**
  + **Action Item 06052018-09:**  iconectiv to determine the frequency of multiple SVs appearing for a given TN in the full SV BDD file that are generated on a daily basis by monitoring for a week long period and to provide a readout at the July LNPA TOSC meeting. **Action Item Closed.**
  + Subsequent to the meeting the following volume was provided by S. Koch:
    - Below are the results of the analysis, based on examining the content of the files for 7 days.
      * Average (mean) number of TNs that have more than one record in a single full SV BDD file:  9
      * Range of number of TNs that have more than one record in a single full SV BDD file:  0 to 49
      * Median number of TNs that have more than one record in a single full SV BDD file:  7
    - In terms of total quantity of SV records in the full SV BDD files, the files range from about 43.7 million to 69.8 million records, depending on region and SPID settings.
* PIM 115 –
  + **Action Item 06052018-10:** Service Providers to verify their usage/need for processing audits based on activation time range and if their vendors will support it.
  + 10X supports this
  + VZ Wireless doesn’t use it
  + Sprint doesn’t use it
  + Keep Action Item open for one more meeting. If people don’t use it, we can remove the request.
* PIM TBD – Pending SV retention
  + Kyle/ATL spoke with Neustar and the observed behavior was the same as Neustar behavior. PIM can be closed.

**PIM & CO Review – PIM 108, 109, 112 – Hold Replay/Recovery**

* CMIP Hold/Replay feedback -
* **06052018-12:** Service Providers and Local Vendors to provide feedback at the July LNPA TOSC meeting on the use of Hold/Replay for CMIP (PIM 109). **Action Item Closed.**
  + L. Marie – Would move to withdraw this PIM (109)
  + ATT agrees that this PIM should be withdrawn
  + iconectiv has received no feedback that this is required and would concur
  + Sprint – Agrees to withdraw the PIM
  + T-Mobile – Agrees to withdraw the PIM
  + No providers were opposed to withdrawing PIM 109
  + PIM will be withdrawn with no further action required
* J. Malyar presented a solution on XML Hold/Replay



* + Approach included an Active/BAU like connection status and an Initial/Inactive connection status.
    - In the Initial/Inactive status, the LSMS interface is not considered to be part of a broadcast (so won’t appear on Failed SP lists), and XML systems will need to use existing methods such as full and delta BDDs to re-initialize or recover data.
    - In the Active/BAU status, local systems are processing messages or temporarily not processing messages, but messages are queued for these systems and will be automatically transmitted to these systems when they start processing messages again. In this state, LSMSs are considered part of the broadcast and will be put on Failed SP Lists if they do not respond in the appropriate timeframes (15 minutes for single TN, 1 hour for TN range or Block).
    - The question is how long can messages be “queued” before a system not processing messages needs to transition to an inactive status. iconectiv proposed 12 hours as limit, but this really depends on the volume of traffic while the system is down.
  + What is the message limit in SWIM recovery –
    - iconectiv – this is tunable between 10K and 100K and currently set to 50K in each region
  + L. Marie – ‘Idle’ state should be defined
  + Industry consensus was reached on this approach and also the need to be notified when an LSMS is not processing messages
  + Action Item 06052018-13: iconectiv to provide additional information for the Hold/Replay Long Duration PIM - What does long duration mean? How long? What is longest duration needed? - Closed
  + Action Item 06052018-14: Service Providers, Local System Vendors and iconectiv to consider using notifications to the industry for an XML provider that wants to be placed on extended hold. Are Service Providers willing to notify the industry about the extended hold period? – Closed
  + New Action Item 07102018-12: iconectiv to develop Change Orders to address the agreed upon Approach for Recovery, Hold/Replay clarification, and Ordering Resends.
  + R. Dillon mentioned that Service Providers should notify the vendors if they are being non-responsive intentionally and get communication out to the industry.

**Unfinished/New Business:**

* The participants agreed to have a conference call meeting August 8, 2018 10-11 AM Eastern.
* **New Action Item 07102018-13: Syniverse will see if they can host the November 6-7, 2018 meeting at their office in Tampa**
* J. Malyar mentioned that the group will need to begin discussion of the Industry Release Schedule as well as begin prioritization of Change Orders. This will be added to the September meeting agenda.
* Blackout Dates and SPID migration schedules should be on the Agenda for September but they are not Transition related activities. Deb Tucker to follow up with the DFO.

**2018 Meeting Schedule:**

January 9-10, 2018 - F2F – San Diego, CA hosted by iconectiv

February 14, 2018 – call 10 Eastern

March 6-7, 2018 - F2F – Durham, NC hosted by Bandwidth

April 4, 2018 – call 10 Eastern

April 24-25, 2018 F2F – Overland Park, KS hosted by Sprint

May 9, 2018 – call

June 5-6, 2018 – F2F – Jacksonville, FL hosted by Neustar

July 10-11, 2018 – F2F – Denver, CO

August 8, 2018 – call 10 Eastern

September 11-12, 2018 – F2F Alpharetta, GA hosted by Verizon

October 10, 2018 – call 10 Eastern

November 6-7, 2018 – F2F Tentative – Tampa, FL hosted by Syniverse

December 5, 2018 – call (if needed)

**July 2018 Meeting Adjourned:**

Having completed the agenda for the July 10-11, 2018, LNPA Transition Oversight Sub-Committee meeting the meeting adjourned.

***Next Full Meeting … September 11-12, 2018: Location Alpharetta, GA…Hosted by Verizon Wireless***