LNPA WORKING GROUP

May 2-3, 2017 Meeting

Final Minutes

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| --- | --- |
| **Miami, FL** | **Host: Neustar** |

**TUESDAY May 2, 2017**

**Attendance**

| **Name** | **Company** | **Name** | **Company** | |
| --- | --- | --- | --- | --- |
| Lane Patterson | 10xpeople | Lynette T. Khirallah | | NetNumber (phone) |
| Lisa Marie Maxson | 10xpeople (phone) | Aaron Goldberger | | Neustar |
| John Skousen | 10xpeople | Anand Rathi | | Neustar |
| David Alread | AT&T | Dave Garner | | Neustar |
| Renee Dillon | AT&T | Ed Barker` | | Neustar (phone) |
| Teresa Patton | AT&T | Gary Sacra | | Neustar |
| Jackie Wohlgemuth | ATIS (phone) | Jim Rooks | | Neustar |
| Anna Kafka | Bandwidth.com | John Nakamura | | Neustar |
| Lisa Jill Freeman | Bandwidth.com | Kristen Hamilton | | Neustar |
| Rob Brezina | Bandwidth.com | Larry Vagnoni | | Neustar |
| Connie Stufflebeem | BKD, LLP (phone) | Lavinia Rotaru | | Neustar |
| Marian Hearn | Canadian LNP Consortium (phone) | Marcel Champagne | | Neustar (phone) |
| Nancy Cornwell | Cellcom (phone) | Michael O’Connor | | Neustar |
| Joy McConnell-Couch | CenturyLink | Mubeen Saifullah | | Neustar |
| Phil Linse | CenturyLink (phone) | Pamela Connell | | Neustar |
| Glenn Clepper | Charter | Paul LaGattuta | | Neustar |
| Kathy Troughton | Charter (phone) | Steve Addicks | | Neustar |
| Erik Chuss | Chase Tech LLC (phone) | Shannon Sevigny | | Neustar Pooling (phone) |
| Jeff Coleman | Cincinnati Bell (phone) | Hollie Carrender | | Sprint |
| Randee Ryan | Comcast | Rosemary Leist | | Sprint (phone) |
| Jennifer Hutton | Cox (phone) | Suzanne Addington | | Sprint (phone) |
| KT Burton | Cox (phone) | Jeanne Kulesa | | Synchronoss Technologies |
| Wendy Rutherford | GVNW (phone) | Bob Bruce | | Syniverse |
| Cathy McMahon | iconectiv | Luke Sessions | | T-Mobile |
| Dave Gorton | iconectiv | Paula Campagnoli | | T-Mobile |
| Doug Babcock | iconectiv | Bill Reilly | | TOM |
| Gary Richenaker | iconectiv | Jonathan Turner | | TOM |
| George Tsacnaris | iconectiv | Tanya Golub | | US Cellular (phone) |
| Joel Zamlong | iconectiv | Bale Pathman | | Verizon Wireless |
| John Malyar | iconectiv | Deb Tucker | | Verizon Wireless |
| Michael Doherty | iconectiv | Kathy Rogers | | Verizon Wireless |
| Pat White | iconectiv | Ron Harris | | Verizon Wireless |
| Steven Koch | iconectiv | Dawn Lawrence | | Verizon (phone) |
| Kimberly Isaacs | Integra telecom/Zayo (phone) | Jason Lee | | Verizon (phone) |
| Bridget Alexander | JSI (phone) | Sue Burke | | Verizon (phone) |
| Dave Malfara | LNP Alliance | Scott Terry | | Windstream (phone) |
| Bonnie Johnson | Minnesota DOC (phone) |  | |  |

*NOTE: OPEN ACTION ITEMS REFERENCED IN THE MINUTES BELOW ARE CAPTURED AT THE END OF THE LNPA WG MINUTES.*

**LNPA WORKING GROUP 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 WG.

**Local Number Portability Administration (LNPA) WG**

Approved Co-Chairs:   Paula Jordan Campagnoli, T-Mobile

Deb 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 | Rosemary Leist |
| 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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**March 7-8, 2017 Draft LNPA WG Meeting Minutes Review:**

The March 7-8, 2017, LNPA WG DRAFT minutes were reviewed and approved. The minutes were issued as FINAL.

**April 5, 2017 Draft LNPA WG Meeting Minutes Review:**

The April 5, 2017, LNPA WG DRAFT minutes were reviewed and approved. The minutes were issued as FINAL.

**LNPA WG Tri-Chair Election:**

An election was held to fill the vacant CLEC Tri-Chair position. Nominations were received prior to the meeting for Anna Kafka, Bandwidth, and Glenn Clepper, Charter. A vote was held and Glenn Clepper was elected as the third Tri-Chair.

Neustar accepted and completed the action to update the Tri-Chair contact information on the LNPA WG website.

**Updates from Other Industry Groups:**

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

**WIRELESS SERVICE ORDERING SUBCOMMITTEE**

The Wireless Service Ordering subcommittee has not had a meeting since the last LNPA WG. The next checkpoint call is scheduled for June 14th, 2017.

**LOCAL SERVICE ORDERING SUBCOMMITTEE**

The LSO Subcommittee met March 24th, 2017 and April 14th, 2017.

**New Issues**

The subcommittee reviewed the Issue Statements for the four new Issues below. Issue numbers were subsequently assigned.

* Add TC OPT to the NP Form (074)
* DSL Shipping fields for the EU Form (072)
* Add the NIDR field to the Centrex practice (080)
* New field to the LSR form for “APT CON”

A member provided an overview of a new abbreviated High Speed Internet Order request that will be reviewed at the May meeting. Documentation has been uploaded to the OBF LSO documents portal.

**Current Issues**

No action on current issues

**Next Meeting:**

LSO will meet May 8th through May 11, 2017 at AMOC.

Regarding the addition of new fields stated previously, Verizon asked if Service Providers will be using these fields as part of the port validation process to provide FOCs. Wireless carriers will need to understand the impact for intermodal porting.

*Note: Comcast took the action and after the meeting closed, CenturyLink provided a response stating that these fields are not part of port validations and therefore there would be no impact to the porting process.*

**NANC Future of Numbering Working Group Update – Suzanne Addington - Sprint**

New tri-chair elections took place in March.  We welcome Cullen Robbins from Nebraska Public Service Commission and Allyson Blevins from Charter as new Tri-Chairs.

         The FoN WG met briefly on April 5.

         We reviewed industry reports and no new business items were mentioned.

         FCC Wire Center Trial Updates has been closed and will be removed from future agendas.

**INC (Industry Numbering Committee) - Dave Garner – Neustar:**

**INC Issue 837: Can 976 NXXs be Pooled**

Issue Statement: The COCAG Section 4.7 lists the Unassignable, Special Use Codes, which are duplicated in new NPAs during NPA Relief. The 976 NXX code can only be used for Information Delivery Services. The majority of the 976 NXXs are not assigned to a specific OCN, do not have special routing information, and are not portable and not pooled, but there are some associated with specific OCNs and routing information. There is no clear direction in the Guidelines on whether or not these codes can be pooled.

At the March meeting, INC reviewed this issue and agreed to make modifications to Section 4.8 of the COCAG and added Section 2.15 to the TBPAG, in order to state that a 976 code shall not be pooled or ported, and that blocks shall not be donated from 976 NXXs.

COCAG Section 4.8 now reads: The 976 code shall only be used for Information Delivery Services, is not associated with a rate center, and is duplicated in new NPAs during NPA relief. Any of these codes that have specific hosting company information may require additional documentation (Part 1 form) prior to being added to the routing and rating database. The 976 codes shall not be marked as portable and shall not be pooled as the codes’ numbers are not assigned to end-user customers.

TBPAG Section 2.15 now reads: Blocks shall not be donated to a pool from any 976 central office code (NXX) because the 976 NXXs can only be used for Information Delivery Services, are not associated with any rate center, and are not assigned to end-user customers. These codes are duplicated in new NPAs during NPA relief.

**INC Issue 835: Update TBPAG And COCAG To Clarify That The 30-Day State Notification Required By Interconnected VoIP Service Providers Applies To Growth Requests As Well As Initial Requests**

Issue Statement: TBPAG Section 4.3.1.1 and COCAG Section 4.2.1 show that the 30-day state notification required by interconnected VoIP service providers is required for both initial and growth requests, as stated in 47 CFR § 52.15 (g) (3) and FCC 15-70, ¶ 14 and 34. The same requirement should be included in TBPAG Section 8.3.4 and COCAG Section 4.3

At the March meeting, INC reviewed this issue and agreed to update Section 8.3.4 of the TBPAG and Section 4.3 of the COCAG to clarify that the 30-day state notification, required for interconnected VoIP service providers, applies to growth requests as well as initial requests.

INC added the additional language to draw attention to the 30-day state notification requirement for growth requests. This clarification was added to ensure applicants are aware of the requirements and to prevent the denial of those applications.

**INC Discussion of Industry Activities**

INC continues to discuss industry activities and participant in joint meetings with other ATIS committees in order to identify and understand any impacts on numbering resources and current INC Guidelines. Two such issues discussed during March and April meetings were:

* SHAKEN Governance Model and Certificate Management – which introduces a governance model and define certificate management procedures for Secure Telephone Identity (STI) technologies. SHAKEN (Signature-based Handling of Asserted information using toKENs) is an industry framework for managing and deploying Secure Telephone Identity (STI) technologies with the purpose of providing end-to-end cryptographic authentication and verification of the telephone identity and other information in an IP-based service provider voice network.
* NPRM and NOI on Robocalling – On March 23, 2017, the FCC released CG Docket No. 17-59, In the matter of Advanced Methods to Target and Eliminate Unlawful Robocalls.

The notice advised of the following comment dates and Introduction statement:

Comment Date: (45 days after date of publication in the Federal Register)

Reply Comment Date: (75 days after date of publication in the Federal Register)

INTRODUCTION

1. With this Notice of Proposed Rulemaking and Notice of Inquiry, we begin a process to facilitate voice service providers’ blocking of illegal robocalls, which represent an annoyance—and often worse—for consumers. Specifically, we propose rules that would allow providers to—on their customers’ behalf—block the illegal robocalls that can bombard their phones at all hours of the day, in some cases luring consumers into scams (e.g., when a caller claims to be collecting money owed to the Internal Revenue Service (IRS) or leading to identity theft. We also inquire about further steps the Commission could take to protect consumers and empower voice service providers to block illegal robocalls. Providers have been active in identifying such robocalls, and consumer groups and others have asked the Commission to encourage better call blocking. Today, we begin to make that a reality.

**IP Transition effects on Number Portability – Phil Linse – CenturyLink:**

Phil provided a summary of the work that taking place within the ATIS Testbeds Focus Group. The JIT Numbering test plan is one element being addressed within that group. See attached presentation.

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**JIT Testbed Trial Presentation – Bruce Armstrong, Neustar:**

The idea of JIT has been around for a while; however a recent modification was made to the test plan to use LRNs from any blocks used in testing vs. using fictitious LRNs to eliminate possible routing issue concerns. It was made clear that JIT is not intended to replace number inventory systems for those providers that need that option. It is intended to be an option for providers that do not want to maintain their own inventory. Of the four phases to the testing, Neustar is in the second phase (internal testing) and once that is complete they will look to extend the testing to include providers and live tests for phase three.

Discussion took place regarding concerns of the group related to real time routing issues and how the process would work in real systems. Whether there is a different solution to the perceived problem that came out of MODERN a few years back, was also questioned. If this is a number exhaust situation, a suggestion was made that perhaps the industry could look at lifting the contamination level from 10% to something else to help free up some numbers that are currently considered stranded.

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**Architecture Planning Team (APT) – John Malyar/Teresa Patton:**

The APT continues to update various test cases as questions or request for clarifications that come up.

There are 18 doc only changes pending and 6 new/open test cases that will be discussed during the APT meeting tomorrow.

The APT will meet on Wednesday, May 3, 2017 beginning at 9:00 am and the agenda topics to be covered are listed at the end of the WG Agenda.

**Action Item(s) Review:**

**091316-01** – APT to discuss NANC 461 to determine potential approach for sun setting SOA and/or LSMS impacting change orders.

Action Item 091316-01 remains open.

**11082016-01** - LNPA WG Tri-chairs presented the issue to the NAPM LLC to

request the TOM to work with the two LNPAs to obtain a recommendation

for resolution on support of one or more sFTP sites.

The recommendation, agreed to by iconectiv, Neustar and the TOM is to continue to operate separate and independent LNPA sFTP sites during the Transition. The APT will have further discussions on this item.

Neustar provided a contribution to be worked in the APT. There may be subsequent work coming out of the testing effort, but it was agreed that this Action Item would be closed.

**11082016-04** – Based on comments from the 11-08-16 meeting, iconectiv to determine the testing certification of the sunset items**.**

The APT continues to discuss this item.

Action Item 11082016-04 Remains Open

**12072016-02** - Action Item - Glenn Clepper, Charter, and Lisa Jill Freeman, Bandwidth.com, will work on documenting the sunset process flow and making arrangements for publishing on the LNPA website.

Existing documentation was updated and the group stepped through the changes (see attached). The flows and narratives were accepted without further changes. The Action Item will be closed and the finalized documents will be placed on the npac.com website (Neustar action).



**Change Management: Neustar**



Sunset Items 5.1 and 5.2 have been removed from NANC 460 and 461 and placed in a new separate change order.

NANC 485 has been removed because the test plan revisions have been rolled into the test plan. New test plan clarifications will be addressed in NANC 491.

NANC 489 (IIS/EFD) doc only changes were reviewed.

iconectiv requested that the change to Section 5.3.4 be removed from NANC 489 and split out into a separate change order. iconectiv requested that the change be kept, but placed in a separate change order. iconectiv said it may not be doc only for one of the vendors. NSR action item (New Action Item 05022017-03). If it is not a doc only change, then there needs to be an industry release.

On the EFD error codes changes, two distinct code values are being returned, one for CMIP and one for XML. iconectiv asked if it is supposed to be that way. John N. said yes. Jim said it is that way in the document because the behavior is different for XML and the distinction needs to be indicated.

NANC 490 (FRS) doc only changes were reviewed.

RR6-237: iconectiv requested that this change be removed from NANC 490 and split out into a separate change order. NSR action item (New Action Item 05022017-04).

NANC 481 (GDMO) doc only changes were reviewed.

1.0 LNP Download Action Behavior – iconectiv requested that this change be removed from NANC 481 and split out into the same separate change order as the change to Section 5.3.4 in NANC 489. NSR action item (New Action Item 05022017-05).

New NANC 491 for Turn-Up Test Plan changes was accepted without change.

New NANC 492 (Sunset Items 5.1 and 5.2 that were split out from NANC 460 and 461) was accepted without change.

Tri-Chairs announced that the CMA function is transitioning to iconectiv in July.

**GEP Benchmark recommendations (FTP and BDD) – Paul LaGattuta:**

**Action Item 03072017-01:** Service Providers are to communicate any objections or concerns to the LNPA WG Chairs by April 18, 2017, regarding the recommendation that all NPAC Users pulling NPAC SV BDD files from the Neustar Corporate FTP site be required to use secure FTP (sFTP).  This will be discussed at the May 2-3, 2017 LNPA WG meeting.

The Tri-Chairs received one objection to requiring use of sFTP. No further objections were presented during the meeting. Neustar was assigned New Action Item 05022017-01- Neustar to provide details on a plan for implementing secure FTP. Expected response to be provided during the July LNPA WG meeting.

Action Item 03072017-01 was closed.

**Action Item 03072017-02:** Service Providers are to communicate any objections or concerns to the LNPA WG Chairs by April 18, 2017, regarding the recommendation that the security of NPAC BDD files be expanded to include encrypting the files.  This will be discussed at the May 2-3, 2017 LNPA WG meeting.

The Tri-Chairs received a number of objections to expanding the security of the NPAC BDD files to include encrypting the files. The process would impact the time to generate and decrypt files and there would be additional storage space requirements. Neustar clarified that this was to protect data at rest, however participants did not seem to think that it was worth the effort to do the additional file encryption. Neustar will respond to their GEP auditor on the LNPA WG objections.

Action Item 03072017-02 was closed.

**LNPA Transition Discussion – All:**

* Transition Testing Presentation by iconectiv (this will be an ongoing agenda item):



* Test and production connectivity – the iconectiv testbeds and production systems reside in the same data center sites. Connectivity could be Ethernet or T1.
* Test scheduling for vendors, mechanized users – NPAC/SMS testing with vendors will begin mid-May. NPAC acceptance testing is considered complete when the industry has completed certification testing. XML testing will overlap with Round Robin testing later in the year, but there is not yet a date in 4Q2017 when vendor testing of XML will begin.
* Testing approach for certifying  & performing regression testing on different NPAC S/W Releases by vendors and service providers

New Action Item 05022017-02 – iconectiv will explain their understanding of what testing can and cannot be done with respect to SOW 52 access and unlimited access needs along with who will be able to access the system.

* Test data setup
  + iconectiv will set up new NPA-NXX codes for testing and their system will also have the codes copied over from the Midwest testbed. The Midwest testbed data snapshot was taken by Neustar on 4/21/2017 just a few minutes after midnight. The testbed for certification testing will be the testbed going forward.
* Defect Resolution Process
  + If test cases fail or not, what will be presented to the industry depends on what has happened. Test cases that can’t be resolved or fixed will get further exposure when warranted.
* Group / Round Robin Testing
  + Group and Round Robin testing will span from November 2017 through February 2018
  + Ad hoc testing can take place during this same window (Nov 2017 – Feb 2018)
  + Neustar asked for a formal request to have an open ad-hoc testing window for vendors and providers to go in and do unsupported testing, following completion of vendor certification testing (similar to what we have today in SOW 52.) Action Item for the Tri-chairs to take this under consideration (New Action Item 05022017-06).
  + iconectiv clarified that the systems that will be used in production at go-live are the systems that need to be certified
* Future Test Environment Connectivity post transition
  + ATT asked when official SOW52 support will be available from iconectiv
  + That availability can be accelerated if certification is completed early
  + 10xpeople mentioned that point 8 on the last slide references certification needed when the hardware of a local product (SOA/LSMS) is changed and they wanted to know how this is impacted by virtualization and cloud availability?
  + iconectiv agreed that this will be good thought for future discussions
* 2018 SPID Migration Black Out Presentation – iconectiv

This presentation was sent out on Friday, April 28th. Participants are asked to carefully review the document and provide feedback during the June call.



* General Technical Issues Discussion – All
  + Nothing specific was brought up; however it was asked if the TOM would be able to provide a report to state if iconectiv is ready to test. It was noted that the TOM does not do that type of reporting.
* Inter-Carrier Testing Sub-Committee Status – Renee Dillon, AT&T

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The ITC subcommittee had a kickoff meeting on April 14th

The agenda included

• Request for contact info. \* approval to distribute

• Sub Committee scope

• NPAC Transition Timeline Review

• Initial review of the ITC Test Plan

See attached documents for updates.

All Service Providers were encouraged to become involved in the testing Sub-Committee

**Best Practice (PIM 86) – Bandwidth**

**Action Item** **070715-01 –** The disputed port PIM submitted by Sprint.com was accepted to be worked as PIM 86. Lisa Jill Freeman (Bandwidth) will lead a sub-committee to work on details for a process to resolve disputed ports. If approved, the process will be documented as an LNPA WG Best Practice.

Anna Kafka led the group through the attached Unauthorized Port Flow and the Summary document that will be used in publishing the Best Practice. No additional changes were made to the documents and they were approved for posting as new Best Practice 73.



**NANC June 29, 2017 Report – Tri-Chairs:**

The WG Tri-Chairs will draft the report and distribute to participants for review prior to the meeting.

**Status of Action Items:**

**070715-01 (PIM 86) –** Closed during the May meeting

**091316-01 (**Action Item)– APT to discuss NANC 461 to determine potential approach for sun setting SOA and/or LSMS impacting change orders. This item remains open.

**110816-04** – based on comments from the 11-08-16 meeting, iconectiv to determine the testing certification of the sunset items. This item remains open.

**12072016-02 -** Glenn Clepper, Charter, and Lisa Jill Freeman, Bandwidth.com, will work on documenting the sunset process flow and making arrangements for publishing on the LNPA website. Action item closed during the May meeting.

**Action Item 03072017-01:** Service Providers are to communicate any objections or concerns to the LNPA WG Chairs by April 18, 2017, regarding the recommendation that all NPAC Users pulling NPAC SV BDD files from the Neustar Corporate FTP site be required to use secure FTP (sFTP).  Action Item closed during the May meeting.

**Action Item 03072017-02:** Service Providers are to communicate any objections or concerns to the LNPA WG Chairs by April 18, 2017, regarding the recommendation that the security of NPAC BDD files be expanded to include encrypting the files.  Action item closed during the May meeting.

**Action Item 20170307-03 -** Participants to contact Renee Dillon (RD9317@att.com) if they want to participate in reviewing test cases, etc. for the group and round robin testing sub-team effort. Action item closed during the May meeting.

**New Action Item 05022017-01**- Neustar to provide details on a plan for implementing secure FTP. Expected response to be provided during the July LNPA WG meeting.

**New Action Item 05022017-02 –** iconectiv will explain their understanding of what testing can and cannot be done with respect to SOW 52 access and unlimited access needs along with who will be able to access the system.

**New Action Item 05022017-03 –** Neustar to create a new change order based on the iconectiv request that the change to Section 5.3.4 be removed from NANC 489 and split out into a separate change order.

**New Action Item 05022017-04 –** Neustar to create a new change order based on the iconectiv request that this change be removed from NANC 490 and split out into a separate change order.

**New Action Item 05022017-05 -** Neustar to add an additional change to the new change order based on the iconectiv request that 1.0 LNP Download Action Behavior be removed from NANC 481 and split out into the same separate change order as the change to Section 5.3.4 in NANC 489.

**New Action Item 05022017-06 –** LNPA WG Tri-Chairs to take under consideration Neustar’s formal requestto have an open ad-hoc testing window for vendors and providers to go in and do unsupported testing, following completion of vendor certification testing (similar to what we have today in SOW 52.)

**Unfinished/New Business:**

* Charter introduced for discussion the topic of unauthorized port outs to prepaid accounts and fraud. They are seeing a lot of this type of activity that is tied to identity theft. The providers are following the rules, but they would like to see if there is an opportunity to come up with alternative ways to address the situation. Charter suggested the formation of a sub-team to discuss this further.

This item will be added to the July agenda for further discussion. Charter will facilitate.

* Verizon had a reseller that asked Verizon to take a ported number back because it was an unauthorized port to that reseller. The reseller would not give Verizon any info on the customer and asked if any other Service Provider has run across this issue. Bandwidth said they have had this issue and they port the number back to them. It was suggested that providers use manual SOA processing to return numbers when encountering issues of this nature.
* Verizon said a group of resellers are reselling service and there are many layers between the end user and the network provider. When trouble tickets are generated, sometimes the network provider does not want to assist in troubleshooting. In some cases, the reseller has to go to a regulatory body. Network Providers were encouraged to work together to avoid having to deal with regulators to resolve carrier trouble issues. This will help resolve the issue for the customer much more quickly than going through regulatory channels.
* Neustar took an action item to check with Brent Struthers to see if there is an updated list of SPs with porting waivers.
* AT&T is seeing an uptick in individual port requests being sent to AT&T’s NPAC contact list. Verizon is as well. Providers should review port responses for the proper porting contact information rather than using NPAC Primary contacts.
* Bandwidth said some small rural Service Providers are refusing to port to Bandwidth without a full-blown ICA. They won’t take a Trading Partner Profile and tandem routing options are not being used either. Bandwidth offered to host a call for interested parties to discuss this topic further offline.

**Discussion of Need for June 7, 2017 LNPA WG Call:**

A June 7, 2017 call for the LNPA WG will take place for 2018 SPID Migration black out discussions and Transition testing followed by an APT meeting. The meeting will be held for 4 hours beginning at 7:00 AM PDT/10:00 AM EDT.

**May 2017 Meeting Adjourned:**

Having completed the agenda for the May 2-3, 2017, LNPA Working Group meeting, the meeting was adjourned. The remaining time allotted for meeting on May 3, 2017 was used by the Architecture Planning Team (APT) to continue review of transition test cases.

**2017 LNPA Working Group Meeting Schedule:**

January 10-11, 2017 – iconectiv – Scottsdale, AZ

February 8, 2017 - call

March 7-8, 2017 - Comcast – Denver, CO

April 5, 2017 - call

May 2-3, 2017 – Neustar – Miami, FL

June 7, 2017 - call

July 11-12, 2017 – Bandwidth – Durham, NC

August 9, 2017 - call

September 12-13, 2017 – CenturyLink – Denver, CO

October 4, 2017 - call

November 7-8, 2017 – Charter – Tampa

December 6, 2017 - call

***Next Conference Call … June 7, 2017***

***Next Meeting … July 11-12, 2017: Location Durham, NC…Hosted by Bandwidth***