

LNPA WORKING GROUP
September 1-2, 2015 Meeting
FINAL Minutes

Greenwood Village, CO	Host: Comcast
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TUESDAY September 1, 2015

Attendance

Name	Company	Name	Company
Lonnie Keck	AT&T	Connie Stufflebeem	Kiesling Assoc (phone)
Renee Dillon	AT&T	David Malfara	LNP Alliance (phone)
Ron Steen	AT&T	Bonnie Johnson	Minnesota DoC (phone)
Teresa Patton	AT&T	Lynette Khirallah	NetNumber (phone)
David Alread	AT&T (phone)	Aaron Goldberger	Neustar
Mark Lancaster	AT&T (phone)	Dave Garner	Neustar
Tracey Guidotti	AT&T (phone)	Fariba Jafari	Neustar
Aelea Christofferson	ATL (phone)	Gary Sacra	Neustar
Anna Kafka	Bandwidth.com	Jim Rooks	Neustar
Matt Ruehlen	Bandwidth.com	John Nakamura	Neustar
Tony Barela	Bandwidth.com	Lavinia Rotaru	Neustar
Matt Nolan	Bright House (phone)	Marcel Champagne	Neustar
Nancy Cornwell	Cellcom (phone)	Mubeen Saifullah	Neustar
Jan Doell	CenturyLink	Pamela Connell	Neustar
Mary Retka	CenturyLink	Paul LaGattuta	Neustar
Randee Ryan	Comcast	Shannon Sevigny	Neustar Pooling (phone)
Beth O'Donnell	Cox (phone)	Towanda Russell	RCN (phone)
Wendy Rutherford	GVNW (phone)	Troy Hess	RingCentral
Doug Babcock	iconectiv	Rosemary Emmer	Sprint
George Tsacnaris	iconectiv	Suzanne Addington	Sprint (phone)
Joel Zamlong	iconectiv	Jeanne Kulesa	Synchronoss
John Malyar	iconectiv	Bob Bruce	Syniverse (phone)
Ken Havens	iconectiv	Luke Sessions	T-Mobile
Sarah Shepherd	iconectiv	Paula Campagnoli	T-Mobile
Steven Koch	iconectiv	Bill Reilly	TOM
Carolee Hall	Idaho PUC (phone)	Jason Lee	Verizon (phone)
Kim Isaacs	Integra (phone)	Deb Tucker	Verizon Wireless
Bridget Alexander	JSI	Kathy Rogers	Verizon Wireless
Karen Hoffman	JSI (phone)	Dawn Lawrence	XO

NOTE: OPEN ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “SEPTEMBER 1-2, 2015 WG ACTION ITEMS” FILE AND ATTACHED HERE.



September 1-2, 2015
LNPA WG ACTION ITI

LNPA WORKING GROUP MEETING MINUTES:

July 7-8, 2015 Draft LNPA WG Meeting Minutes Review:

Dave Malfara and Jim Castagna both submitted clarifications to be made to the IP Transition section of the minutes. Lonnie Keck asked that his statement about PIM 84 be more correctly stated as “2 ½ hours may not be enough time for some small wireless resellers using manual processes” instead of the statement that 2 ½ hours is not enough.

The July 7-8, 2015 minutes were accepted as final with these revisions.

Updates from Other Industry Groups

OBF Committee Update – Deb Tucker:

OBF

ORDERING SOLUTIONS COMMITTEE

WIRELESS SERVICE ORDERING SUBCOMMITTEE

The Wireless Service Ordering Subcommittee has not met since the July LNPA WG meeting. The next checkpoint call is scheduled for January 8, 2016. In the event industry activity occurs prior to that date that may impact the Subcommittee, meetings will be scheduled accordingly.

LOCAL SERVICE ORDERING SUBCOMMITTEE

The LSO Subcommittee met July 9, July 30, and August 20, 2015 to progress Issues 3373 and 3477, and to review Issues 3448 and 3521.

Issue 3373, LSOG: Standardization of RT of “Z” in the 099 practice for REQ TYP “C” to be utilized by all providers

Participants continue to work toward determining Response Types and fields that may be eliminated as a result of this standardization work effort through various action items.

Issue 3373 remains open.

Issue 3477, LSOG: Standard field length minimums identified and repeating/# of occurrences on each field

Participants reviewed and updated OBF-LSO-2014-00013R010.LSO LSR, EU, NP MIN-MAX-REPEATv10 to clarify where field minimums are required, if fields repeat and how many times they repeat, and if fields should be zero filled or not.

Issue 3477 remains open.

Issue 3448, LSOG: Add new Line Activity (LNA) value to require disposition of each Telephone number when converting

Currently when converting accounts with multiple Telephone Numbers, a CLEC does not provide disposition on each telephone number. Requiring disposition on each TN would reduce billing disputes from the end user because they expected all numbers to be ported. In addition, if one of the numbers to be ported is the lead number in a hunt group, requiring disposition of all numbers on the account will allow for handling of the hunt group members, reducing re-work in the support teams.

It was noted that Issue 3448 has not been worked pending feedback.

Issue 3448 remains open.

Issue 3521, LSOG: Remove the RVER (071), BA and BLOCK (074 and 75), and REMARKS (072, 073, 075, 077, 078, 079 and 102)

There is a business need to remove fields that are no longer used in the industry. It was noted that Issue 3521 is dependent upon identifying the impacts to the UOM documentation as a result of the changes to the LSOG document.

Issue 3521 remains open.

The next LSO meeting is scheduled for October 1, 2015.

INC Update – Dave Garner:

INC Issues Readout

LNPA WG Meeting – September 2015

INC Issue 497: Identify Changes to INC Guidelines Based on NANC’s Report and Recommendation, VoIP Service Providers’ Access Requirements for NANP Resource Assignments (July 19, 2005), and FCC Order 15-70 (June 22, 2015)

At NANC’s request in 2005, INC reviewed the NANC’s report (VoIP Service Providers’ Access Requirements for NANP Resource Assignments) and crafted changes to relevant sections within INC documents that may require modifications should the FCC issue an order addressing VoIP provider access to numbers.

In June 2008, INC tabled this Issue pending action by the FCC.

INC moved this Issue to active status on July 10th due to the release of FCC Report and Order on Numbering Policies for Modern Communications (FCC 15-70, June 22, 2015) which established a process to authorize interconnected VoIP providers to obtain telephone numbers directly from Numbering Administrators, rather than through intermediaries.

At the July meetings, INC reviewed the FCC Report and Order (FCC 15-70) and identified areas that may require updates to the INC guidelines, such as authorization for obtaining resources, facilities readiness, CFR references and definitions, etc. INC members agreed to review specific INC guidelines and draft suggested changes to those guidelines to address the requirements in FCC 15-70. A review of the draft changes will start during the September INC meetings.

INC Issue 748: Assess Impacts on Numbering Resources and Numbering Administration with Transition from Public Switched Telephone Network (PSTN) to Internet Protocol (IP)

Issue Statement: As the industry and regulatory bodies move from the current Public Switched Telephone Network (PSTN) towards Internet Protocol (IP), consideration needs to be given to the numbering scheme. Will the current telephone number format be utilized, in whole or part, in the IP environment or will some other numbering addressing format be used? It is necessary for INC to be aware of regulatory mandates and industry activities addressing the numbering protocol to be used for IP technology as well as numbering impacts during the PSTN to IP transition in order to update or create new numbering guidelines.

At the July meeting, INC continued to discuss developments regarding the PSTN to IP transition. INC is considering possible next work items in association with the transition to the all-IP network:

- Continue to monitor the work of the IETF (Internet Engineering Task Force) STIR (Secure Telephone Identity Revisited) Working Group regarding security of TNs associated with number assignment.
- Continue to evaluate whether INC will draft a whitepaper on expanding the geography of number assignment.

It was noted that on July 9, 2015, FCC Chairman Wheeler was sent a letter from the members of the House of Representative Committee on Energy and Commerce asking the FCC to resolve customer confusion and support nationwide wireless number portability for all providers. Since this letter was addressing number portability, INC asked that I mention this letter to the LNPA WG.

(Attached here is a copy of the letter.)



Wireless LNP -
7-9-2015 Letter from

NANC Future of Numbering Working Group Update – Dawn Lawrence

Dawn reported that there has been no FON meeting since the last LNPA WG meeting. The next FON meeting will be October 7, 2015.

NANC Meeting Readout – Paula Campagnoli

Paula reported that there has been no NANC meeting since the last LNPA WG meeting. The next NANC meeting is scheduled for September 30, 2015.

Change Management – Neustar

Change Order Summary



NANC Change
Orders 08-31-15.doc

Four new document only change orders were presented to the LNPA WG for consideration. John Nakamura led a discussion of the changes. Paula Campagnoli asked about the origin of these changes. In response to Paula's question, Jim Rooks stated that the industry documents are being reviewed by a different group, and that these are now being brought to the WG for review for the first time. Jan Doell stated that these document changes are being made to reflect how the current system operates. Consistent with the WG's change order review process, it was agreed that the WG would review the changes to the docs.

John reviewed the Document Only FRS changes first (attached).



NANC TBD - FRS
Doc-Only Clarification

- NPAC Customer Data Model – For Heartbeat messages, Neustar to indicate that they are both inbound and outbound Heartbeat messages.
- NANC 462 for the FRS changes was accepted by the LNPA WG for implementation.

John reviewed the IIS-EFD Document Only changes (attached).



NANC TBD - IIS-EFD
Doc-Only Clarification

- NANC 463 for the IIS-EFD changes was accepted by the LNPA WG for implementation.

John reviewed the GDMO Document Only changes (attached).



NANC TBD - GDMO
Behavior Doc-Only Cl

- NANC 464 for the GDMO changes was accepted by the LNPA WG for implementation.

John reviewed the Turn-up Test Plan Document Only changes (attached).



NANC TBD - Turn-Up
Test Plan Doc-Only Cl

- NANC 465 for the Turn-up Test Plan changes was accepted by the LNPA WG for implementation.

John Malyar asked if there was any value in linking these changes into one change order. John Nakamura responded that historically we have developed one change order per document. Paula Campagnoli stated we will keep them as separate change orders as has been the historical practice.

Paula will place these change orders on the November WG agenda for a status readout and follow-up.

NANC 449 – Active-Active SOA Status Update

- John Nakamura reviewed revisions to NANC 449 with the WG.
- John suggested that if there are no further updates, these requirements can be base-lined.
- CenturyLink and Comcast voiced support for NANC 449.

- LNPA WG consensus was to place NANC 449 on the list of candidate change orders for consideration in a future release.



NPAC Functionality under Consideration for Sunsetting

Action Item 070715-05 – John Nakamura to develop two change orders for implementing removal of the features on the Sunset List from the NPAC. One change order will be for removal of features that impact local systems. The other change order will be for removal of features that have no impacts to local systems.

- John reviewed the 2 new change orders in response to action item 070715-05
 - NANC 460 addresses sunset items with no local system impact (6 items).
 - NANC 461 addresses sunset items with local system impact (4 items).
- LNPA WG consensus was to place these change orders on the list of candidate change orders for consideration of a future release.

Action Item 070715-05 is closed.

NANC 356 – “/” SP Type Indicator in the SP Name Field

Jim Rooks stated that during LNPA Transition Team discussions, some interest was expressed in putting NANC 356 (“/” SP type indicator) back on the sunset list. It was previously removed.

Ron Steen stated that he believes that there are some service providers who still use NANC 356. The WG developed a new Action Item to determine whether or not this feature is still used.

New Action Item 090115-01 – NANC Change Order 356 has been removed from the Sunset List. This change order appends a “/” followed by service provider type indicator to the name of the service provider in the NPAC/SMS. The LNPA Working Group is considering putting this change order back on the Sunset List (to be removed from the NPAC/SMS). Service providers are to respond by September 30, 2015, to the LNPA WG tri-chairs as to whether or not they use this feature. No response will indicate that it is not used. *(This AI is associated with AI 090115-04.)*

Action Item Remaining Open from Previous LNPA WG Meetings

Action Item 070715-01 – The disputed port PIM submitted by Bandwidth.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. The sub-committee participants are Suzanne Addington (Sprint), Jan Doell (CenturyLink), Bridget Alexander (JSI), Lonnie Keck (AT&T), Tracey Guidotti (AT&T), Jason Lee (Verizon), Deb Tucker (Verizon),

Scott Terry (Windstream), Aelea Christofferson (ATL Communications), Randee Ryan (Comcast), and Luke Sessions (T-Mobile).



PIM XXX - Process to handle Disputed Ports

Bandwidth asked that this Action Item be postponed until the November LNPA WG meeting.

Action Item 070715-01 remains open.

Bandwidth Port-Out Procedure Changes

Matt Ruehlen, Bandwidth, notified the WG that they are starting a new process for porting numbers away from them. The new information has been shared over the Cross-Region distribution list. For now, the process is just for porting with wireline service providers. Wireless may be incorporated at some time in the future.

Best Practice 04 Discussion

Jan Doell introduced a discussion of v5 of the N-1 Interpretation document (BP04) at the July LNPA WG meeting. She said that some carriers are dropping calls to EAS codes contrary to the responsibilities stated in the document. The N-1 document was developed by the WG in response to an action item assigned by NANC at the May 18, 2004 meeting. It states that on inter-LATA EAS calls, the donor carrier is responsible for doing the LNP query based on the document. The paper was presented by Gary Sacra at the January 19, 2005 NANC meeting. NANC Chairman Atkinson stated that he would work with the FCC to determine how the paper should be codified (Public Notice, whether it is a rule change, or another process.)

Jan had an action to update BP 4 to note what took place at the NANC meetings with regard to the N-1 White Paper.

Action Item 070715-02 – Jan Doell, CenturyLink, will update Best Practice 04 to indicate that it was approved by the NANC and forwarded to the FCC. BP04 contains a white paper describing various scenarios for routing of ported numbers, and it indicates which entities should perform the N-1 query in each instance.

Jan led the WG through the proposed changes documented in the Draft BP0004 file embedded below. The PowerPoint document is for discussion purposes, and the N-1 Interpretation document is the document developed in 2004.



Draft BP0004
N-1.docx



interLATA EAS N-1
Drawing.pptx



0004 LNPA WG N-1
INTERPRETATION v5

Jan's changes to the BP were accepted by consensus and the BP will be updated. Bonnie Johnson, Minnesota DOC, indicated that this is a big problem in Minnesota. She asked if there is any way to get the FCC to make this BP a required practice so that service providers would be required to comply. Paula will include this information in the report to NANC at their next meeting.

Action Item 070715-02 is closed.

Determining Source of Unauthorized Access to NPAC Data

Action Item 070715-03 – Service providers are to determine if they have any concerns or objections to with the use of their SPID as New SP SPID in any tracer data SVs used to try to determine the source of unauthorized access to NPAC data. Refer to the presentation below for more details. Concerns or objections are to be forwarded to the LNPA WG Tri-chairs by August 7, 2015. No response by that date infers no concerns or objections.



NPAC Tracer Data
Discussion 07-07-201

After some brief clarifying discussion, no objections were expressed.

Action Item 070715-03 is closed.

Action Item 070715-04 – Service providers and Local Systems vendors are to determine if they have any concerns or objections to with insertion of tracer data SVs in their system. Refer to the presentation above for more details. Concerns or objections are to be forwarded to the LNPA WG Tri-chairs by August 7, 2015. No response by that date infers no concerns or objections.

No objections or concerns were expressed.

Action Item 070715-04 is closed.

Neustar is developing an SOW for the tracer data tool to be presented at the September NAPM LLC meeting.

VoIP Number Portability Capability – FCC 15-70A1



FCC-15-70A1voip
order.pdf

Paula Campagnoli stated that the LNPA WG needs to determine if any changes to the flows are necessary to enable VoIP providers to port numbers.

Aelea Christofferson stated that the FCC ordered that unnecessary information such as CLLI codes should not be required in order to obtain numbering resources. Service providers in attendance disagree that CLLI codes are unnecessary information. They are needed for determining how and where to route a call.

The group reviewed Par. 54 of the FCC 15-70A1:

54. In 2007, the Commission extended LNP obligations to interconnected VoIP providers in the *VoIP LNP Order*.¹⁸² The Commission's porting rules impose an "affirmative legal obligation" on interconnected VoIP providers "to take all steps necessary to initiate or allow a port-in or port-out."¹⁸³ In the *VoIP LNP Order*, the Commission also "clarif[ied] that carriers have an obligation under our rules to port-out NANP telephone numbers, upon valid request, for a user that is porting that number for use with an interconnected VoIP service."¹⁸⁴ The Commission concluded at the time that it had "ample authority" to impose porting requirements on local exchange carriers and interconnected VoIP providers.¹⁸⁵

Paula asked the VoIP participants what they need to start porting. Some SPs are porting with VoIP carriers already, and they currently use the wireline porting flows.

The Order's effective date is June 22nd. The FCC gave the NANC 180 days (due Dec 19th) to deliver a report with recommendations. Mary Retka indicated that the INC has been addressing the order. She also mentioned that the Order allows non-geographic numbers for VoIP providers. She referenced Par 37:

37. ... The interconnected VoIP provider need not demonstrate that the point where it delivers traffic to or accepts traffic from the PSTN is in any particular geographic location so long as it demonstrates that it is ready to provide interconnected VoIP service, which is by definition service that "[p]ermits users generally to receive calls that originate on the public switched telephone network and to terminate calls to the public switched telephone network."¹²⁷

Most participants feel that VoIP providers can port using existing processes, but Paula stated that we may need to revise the opening paragraphs in the flows. Jan Doell suggested referencing the NGNP White Paper in any report to the NANC.

SPs, in particular the VoIP Providers, took an action item to review the NANC Flows and determine what, if any, changes need to be made. Any comments are due by Oct. 9th and will be discussed on the Oct 14th conference call.

New Action Item 090115-02 – All Service providers (especially VoIP providers) need to review the NANC porting flows to determine if any changes need to be made to the porting flows to accommodate the FCC VoIP order. Pay special attention to the VoIP type definitions. Responses are due by October 9. This will be for discussion at the October 14 conference call. No response means that there are no issues.

IP Transition effects on Number Portability

Mary Retka updated the LNPA WG on the work that is being done by the ATIS Testbed team. They have completed baseline test cases and use cases and have presented the results to the ATIS

NNI. ATIS NNI will meet to review the results on September 3, 2015. One of the test cases involves numbering and could have LNP implications.

Mary will keep the LNPA WG updated on the progress.

Develop Guidelines for new Service Providers to start Porting Numbers

Bridget Alexander informed the WG that the guideline document is nearing completion. There are still some updates being made. This will be included on the November WG agenda.

Wireless Non-Geographic Porting

On July 27, 2015, the FCC Chairman send a request to the CCA, CTIA, NANC, and four wireless service providers asking for a plan to implement nationwide non-geographic wireless number portability. The CCA and the CTIA are preparing a draft that should be available soon.

Some members indicated that Level 3 believes they have an interim solution. Level 3 was not present at the meeting. Paula contacted J. P. Gonzalez, Level 3, to see if he could present their solution on Day 2 of the WG meeting. Mr. Gonzalez resides in Denver and agreed to do so.

The group took an action item to review and comment on the draft when made available to the WG. A tentative call was scheduled for September 17 at 9:00am CDT to discuss. If the document is not available to the WG before September 17, the call will be cancelled.

New Action Item 090115-03 – Upon receipt of the anticipated CCA and CTIA paper on nationwide wireless number porting, Paula Campagnoli will immediately send it to the LNPA WG distribution list. A conference call will be scheduled for review and discussion of the draft document. (A tentative date/time of September 17 at 9am central time is reserved for the conference call.

WEDNESDAY September 2, 2015

Attendance

Name	Company	Name	Company
Lonnie Keck	AT&T	Bill Reidway	Neustar
Renee Dillon	AT&T	Dave Garner	Neustar
Ron Steen	AT&T	Ed Barker	Neustar
Teresa Patton	AT&T	Fariba Jafari	Neustar
David Alread	AT&T (phone)	Gary Sacra	Neustar
Mark Lancaster	AT&T (phone)	Jim Rooks	Neustar
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Beth O'Donnell	Cox (phone)	Troy Hess	RingCentral
Wendy Rutherford	GVNW (phone)	Suzanne Addington	Sprint
Doug Babcock	iconectiv	Karen Riepenkroger	Sprint (phone)
George Tsacnaris	iconectiv	Jeanne Kulesa	Synchronoss
Joel Zamlong	iconectiv	Bob Bruce	Syniverse (phone)
John Malyar	iconectiv	Luke Sessions	T-Mobile
Ken Havens	iconectiv	Paula Campagnoli	T-Mobile
Sarah Shepherd	iconectiv	Bill Reilly	TOM
Steven Koch	iconectiv	Greg Chiasson	TOM
Carolee Hall	Idaho PUC (phone)	Jason Lee	Verizon (phone)
Kim Isaacs	Integra (phone)	Deb Tucker	Verizon Wireless
Bridget Alexander	JSI	Kathy Rogers	Verizon Wireless
Karen Hoffman	JSI (phone)	Dawn Lawrence	XO
Lynette Khirallah	NetNumber (phone)		

LNPA Transition Discussion

- Paula Campagnoli stated that the WG has not received any instructions or directive related to its role in the LNPA transition.
- The WG was asked if any one would like to offer any brainstorming suggestions as to how we might prepare for the LNPA transition. None were offered at this time.

- We anticipate that the LNPA WG Test Team will need to be reactivated at some future point in time.

Porting Process for Non-Carriers to Perform Ports

Alea Christofferson stated that the FCC addressed the issue for VoIP providers in their VoIP order, and this item can be removed from the agenda.

PIM 84 and PIM 85 – Reseller Discussion



PIM 84 Reseller
Response Times v6.d



LNPA PIM 85 -
Reseller Validations D

- PIM 84: This PIM recommended a 2 ½ hour interval for Resellers to respond.
 - PIM 84 was accepted in July but closed due to lack of resolution.
 - Suzanne Addington will update PIM 84 with lack of resolution statement and send to Neustar. Neustar will place the revised (v7) PIM 84 on website once received from Suzanne.
- PIM 85: Verizon Wireless stated they would support using no more than the 4 validation fields. T-Mobile agreed.
 - Consensus was reached to accept and develop a Best Practice.
 - Verizon Wireless and Sprint will develop the BP recommending that resellers follow the simple port guidelines using the four validation fields.
 - AT&T stated that they may have some contractual issues that prevent them from enforcing the BP with some of their Resellers.
 - Neustar will place PIM 85 on website.

Develop the LNPA WG Report to the (NANC, FON, IMG, etc.)

- Paula will prepare a draft report and send to the WG members for review.
- Dawn Lawrence and Suzanne Addington will work together to prepare a FON report.
- Randee Ryan is preparing a report to give to the New York Carrier Working Group on September 17. She will refer any questions she has to the WG Tri-chairs.
- Bridget Alexander indicated that the IMG doesn't have a meeting scheduled at present. If this changes, she will use the NANC report.

Annual NPAC Failover Exercise

Gary Sacra reminded the Working group of the upcoming October 17-18 annual failover exercise. Neustar will be distributing the usual preparatory information over the Cross-Regional list.

New Business

Level 3 Proposal Regarding Non-Geographic Wireless to Wireless Porting



150831 Level 3
Number Porting Prese

- J.P. Gonzalez walked thru the attached slide deck on Level 3's proposed solution for assisting small non-national wireless carriers to port numbers nationwide.
- Level 3 has a presence in all 50 states.
- Similar to the MVNO issue, they propose porting the numbers to/from their switch using a Level 3 LRN and then Level 3 would route the call via SIP or TDM to their wireless carrier customer who then completes the call to their end user customer wherever they reside.
- The proposal was presented as a short term solution using an off the shelf product.
- LNPA WG members voiced a number of issues/concerns with the proposal:
 - The proposal is for an intermodal port to a wireline service provider, and the number is in essence a wireline number.
 - Not a wireless to wireless port.
 - There would be long distance issues, taxation issues, roaming issues, wireless do not call issues, FCC reporting issue (wireline not wireless number), etc.

Discussion of Need for October 14, 2015 LNPA WG Call

The meeting is scheduled in case we need to discuss feedback about the VoIP porting order and possible Operations Flow changes, and also to discuss any additional Transition related document only changes resulting from further review of documents.

SPID Migration Blackout Dates for 2016

SPID Migration blackout dates for 2016 will be determined at the November meeting.

Review of 2015 LNPA Working Group Meeting Schedule

2015 Meetings and Conference Calls

MONTH (2015)	NANC MEETING DATES	LNPA WG MEETING/CALL DATES	HOST COMPANY	MEETING LOCATION
January		6 th – 7 th	iconectiv	Scottsdale, AZ
February		14 th – 19 th		Conference Call
March		3 rd – 4 th	Verizon Wireless	Alpharetta, GA
April		8 th		Conference Call
May		12 th – 13 th	Neustar	Ft. Lauderdale, FL
June		10 th		Conference Call
July		7 th – 8 th	CLNPC	Mont Tremblant, QC, Canada
August		12 th		Conference Call
September		1 st – 2 nd	Comcast	Denver, CO
October		14 th		Conference Call
November		3 rd – 4 th	T-Mobile	Seattle, WA
December		9 th		Conference Call

Tentative 2016 LNPA Working Group Meeting Schedule

MONTH (2016)	NANC MEETING DATES	LNPA WG MEETING/CALL DATES	HOST COMPANY	MEETING LOCATION
January		5 th – 6 th	iconectiv	TBD
February		11 th		Conference Call
March		1 st – 2 nd	Comcast	Denver, CO
April		13 th		Conference Call
May		3 rd – 4 th	Neustar	TBD
June		8 th		Conference Call
July		12 th – 13 th	CenturyLink	Denver, CO
August		10 th		Conference Call
September		13 th – 14 th	Sprint	Overland Park, KS
October		12 th		Conference Call
November		8 th – 9 th	Verizon Wireless	Alpharetta, GA
December		7 th		Conference Call

Next Conference Call ... October 14, 2015

Next Meeting ... November 3-4, 2015: Location...Seattle, WA ...Hosted by T-Mobile