

LNPA WORKING GROUP
January 10-11, 2017 Meeting
Final Minutes

Scottsdale, AZ	Host: iconectiv
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TUESDAY January 10, 2017
Attendance

Name	Company	Name	Company
Lisa Marie Maxon	10xpeople (phone)	Kimberly Issaacs	Integra telecom (phone)
Lane Patterson	10xpeople	Bridget Alexander	JSI
Kyle Belcher	ATL Communications	Lynette T. Khirallah	Netnumber (phone)
David Alread	AT&T	Anand Rathi	Neustar (phone)
Renee Dillon	AT&T	Larry Vagnoni	Neustar
Teresa Patton	AT&T	Dave Garner	Neustar
Anna Kafka	Bandwidth.com	Pamela Connell	Neustar
Lisa Jill Freeman	Bandwidth.com	Jim Rooks	Neustar
Kelli Doty	Bandwidth.com	John Nakamura	Neustar
Matt Ruehlen	Bandwidth.com	Mubeen Saifullah	Neustar
Rob Brezine	Bandwidth.com	Paul LaGattuta	Neustar
Glenn Clepper	Bright House/Charter	Gary Sacra	Neustar
Nancy Cornwell	Cellcom (phone)	Shannon Sevigny	Neustar Pooling (phone)
Mary Retka	CenturyLink	Marcel Champagne	Neustar
Joy McConnell-Couch	CenturyLink	Lavinia Rotaru	Neustar
Betty Sanders	Charter	Vikram Mehta	Oracle Communications
Erik Chuss	Chase Tech LLC(phone)	Rosemary Leist	Sprint (phone)
Randee Ryan	Comcast	Suzanne Addington	Sprint
Doug Babcock	iconectiv	Hollie Carrender	Sprint
George Tsacnaris	iconectiv	Jeanne Kulesa	Synchronoss Tech
Joel Zamlong	iconectiv	Bob Bruce	Syniverse
John Malyar	iconectiv	Paula Campagnoli	T-Mobile
Steven Koch	iconectiv	Luke Sessions	T-Mobile
Pat White	iconectiv	Bale Pathman	Verizon Wireless
Cathy McMahan	iconectiv	Deb Tucker	Verizon Wireless
Michael Nolan	iconectiv	Kathy Rogers	Verizon Wireless
Krishan Chakvavevthi	iconectiv	Jason Lee	Verizon (phone)
Shanmugavel Krishnan	iconectiv	Scott Terry	Windstream (phone)
Wendy Rutherford	GVNW	Dawn Lawrence	XO Communications

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 has been completed. Below are the names of those that have been vetted and approved as voting members of the LNPA WG.

Local Number Portability Administration (LNPA) WG

Approved Co-Chairs: Paula Jordan Campagnoli, T-Mobile
 Dawn Lawrence, XO
 Deb Tucker, Verizon

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	Jan Doell	Mary Retka
Charter	Glenn Clepper	Allyson Blevins
Comcast	Randee Ryan	N/A
Cox	Jennifer Hutton	Beth O'Donnell
Integra Holdings	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	Darren Krebs	N/A
Windstream	Scott Terry	N/A
XO	Dawn Lawrence	N/A

November 8-9, 2016 and December 7, 2016 Draft LNPA WG Meeting Minutes Review:

The November 8-9, 2016 AND December 7, 2016, LNPA WG DRAFT minutes were reviewed and approved with no changes and no objections to approving the minutes. There were no changes and they will be issued as FINAL.



16-11 - FINAL LNPA WG Minutes.docx



16-12 - FINAL LNPA WG Minutes.docx

Updates from Other Industry Groups

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

INC Issue 826: Criteria Added: To Address Conflicting Requirements Between The ATIS Packet Technologies and System Committee (PTSC) and The Industry Numbering Committee (INC) Regarding The Dual Assignment of 10-Digit Numbers as Both a Location Routing Number (LRN) and a Subscriber Directory Number (DN) Identify

Issue Statement: This is a proposal to update the INC “Location Routing Number (LRN) Assignment Practices”, issued as ATIS-0300065, and dated January 4, 2016. Requested changes are applicable to ATIS-0300065, Section 4.

The purpose of this proposal is to align the “Location Routing Number (LRN) Assignment Guidelines” with the PTSC “Number Portability Switching Systems” standard, issued as ATIS-1000002 and approved October 2004.

- (1) INC Reference: ATIS-0300065. Section 4, Bullet 4: Do not assign the same telephone number as both an LRN for a switch and a working number for a customer.
- (2) PTSC Reference: ATIS-1000002, “Introduction” Section 2.2: Number 8: LRNs may also be DNs assigned to customers and these DNs may also be ported.

It should also be noted that the original LRN Assignment Guidelines had no stipulation that the same 10-digit number should not be dually assigned as “both an LRN for a switch and a working number for a customer.” Prior to subsequent LRN Guideline changes there were instances where the same 10-digit numbers were dually assigned. Many of those dual assignments remain in place.

Problems may arise, however, when a “dual-assignment” customer ports out. An acquiring SP may experience difficulty when processing their ported-in calls, e.g., misdirected terminating calls.

In an effort to rectify the problem, an acquiring SP will sometimes use the “Location Routing Number (LRN) Assignment Guidelines” as a single point-of-reference as to why the SP who relinquished the ported customer should change their LRN. Changing a long established LRN has the potential for putting other subscribers served by the relinquishing SP out-of-service. Therefore, any dual 10-digit assignments, used for both a LRN and a subscriber number, in place prior to the Guideline changes should be considered “grandfathered”.

At the November meeting, INC reviewed this issue and agreed to leave Section 4, Bullet 4 of the LRN Assignment Guidelines as stated: “Do not assign the same telephone number as both an LRN for a switch and a working number for a customer.” and add a footnote to reflect

grandfathered instances where 10-digit numbers are assigned dually as both a LRN and a working customer number. The footnote states: “It should be recognized that there are some numbers that have been assigned as both a LRN and a working customer number, which is technically feasible. There is no requirement that those assignments be discontinued including instances when the customer has ported the number to another service provider. See ATIS-1000002, Number Portability Switching Systems. “

INC Issue 827: Relevant Pages of Interconnected VoIP Provider and Carrier Partner Agreement

Issue Statement: The facility readiness section in the COCAG and TBPAG require that an applicant either provide only the relevant pages of an interconnection agreement, or if the applicant chooses to provide the entire document, they must indicate the page numbers that contain the requested relevant pages. Those relevant pages are the cover page, area covered, the expiration date and the signature page from the interconnection agreement.

The same detail needs to be added to the facility readiness requirement that pertains to the interconnected VoIP provider’s agreement with its carrier partner in order to minimize delays in processing code and block requests.

At the November meeting, INC reviewed this issue and agreed to update Sections 4.2.2 of the COCAG and 4.3.1.2 of the TBPAG to require that an applicant either provide only the relevant pages of the Interconnect VoIP Provider and its Carrier Partner agreement or if providing the entire document, provide the page numbers of the relevant pages.

INC Issue 829: Documentation Needed When the Carrier Partner Name on the Carrier Partner Agreement Does Not Match the Carrier Partner Name on the Interconnection Agreement

Issue Statement: The facilities readiness section of both the TBPAG and the COCAG require that an applicant provide documentation when the name on the interconnection agreement does not match the name on the application. For VoIP applications the carrier partner agreement and the carrier partner interconnection agreement may also have different company names.

To ensure consistency, language needs to be added requiring name change documentation when the carrier partner name on the carrier partner agreement does not match the carrier partner name on the interconnection agreement.

At the November meeting, INC reviewed this issue and agreed to update TBPAG section 4.3.1.2 and COCAG section 4.2.2 to add language stating that name change documentation is required if the carrier partner name on the carrier partner agreement does not match the carrier partner name on the applicable interconnection agreement.

WIRELESS SERVICE ORDERING SUBCOMMITTEE

The Wireless Service Ordering subcommittee did not have any meetings. The next checkpoint call is scheduled for February 15th, 2017.

LOCAL SERVICE ORDERING SUBCOMMITTEE

The LSO Subcommittee cancelled its November 17th, 2016 meeting due to scheduling conflicts and met December 12, 2016.

New Issues

No new issues were presented.

UOM Schema Review

As a result of the review of UOM Schema to 2Q14 LSOG there will be several Issues opened to address field discrepancies identified as a result of the review of the 2Q14 model and schema. The primary fields for review are the TN, DATE, NAME and ZIP fields.

Next Meeting:

LSO will meet January 20th, 2017

NANC Future of Numbering Working Group Update – Dawn Lawrence

February 1, 2017

April 12, 2017

August 2, 2017

October 11, 2017

Meeting times will remain 12:00ET/11:00 CT/10:00 MT/9:00 PT

No questions from members.

NANC Meeting Readout – Paula Campagnoli

Deb Tucker attended the December 1, 2016 NANC meeting. She reported that Best Practice 4 was approved by the NANC

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

Current Status of Certification Test Cases

- Review latest: Certification and Regression Test Plan Clarification Updates
 - 5 previous “Open” items to be verified “Closed” post LNPA WG CMA discussion

- New “Open” items for 1/11 meeting (iconectiv) (Test Matrix attached – new items highlighted in YELLOW)

Continued Discussion at the Wednesday January 11, 2017 APT meeting:

- Review/Discuss: Neustar draft of the Sunset Notification Letter(s) Action Item 12072016-01
- Review/Discuss: Sunset Test Case Impacts (iconectiv) Action Item 11082016-04 (Document Attached)
- Review/Discuss: Neustar additional test case contribution (Document Attached)
- Continue discussion: iconectiv proposed Change Order 461 approach to interim implementation of Sunset features without Local System interface impacts

Change Management:

Per our discussion during the November meeting and December APT meeting, three change orders were updated:

- (updated) NANC 454 – Remove Unused Messages
 - Remove requirement RR3-768
- (updated) NANC 485 – Turn-Up Test Plan Doc-Only Clarifications
 - The December 2016 changes are not in this document yet. It will be discussed at the January 11, 2017 APT meeting.
- (updated) NANC 486 – FRS Doc-Only Clarifications

Action Item remaining open from previous LNPA WG meeting:

- 1) **Action Item 091316-01** – APT to discuss NANC 461 to determine potential approach for sun setting SOA and/or LSMS impacting change orders.
 - a. This will be discussed in APT
- 2) **Action Item 070715-01** PIM 86– The disputed port PIM submitted by Sprint 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). At the March 2016 LNPA Working Group meeting, the subcommittee reported that they would like to expand the scope of this Action Item, PIM, and proposed Best Practice to include all erroneous ports: inadvertent, slamming, and disputed. The Working Group agreed and the sub-committee will continue to work this issue, and is still led by Lisa Jill Freeman.

- UPDATE: Anna Kafka (Bandwidth) updated
 - Working on addressing the language for the Unauthorized Process Flows and Best Practice.
 - This best practice addresses the three types of Unauthorized Ports:
 - **Disputed Port** – A disputed port is commonly a result of two or more parties each claiming to be the authorized end user. Examples may include: business partner disputes, personal relationship disputes, dissolution of franchises, etc.
 - **Inadvertent Port** – Any port which occurred as a result of an error. Errors which result in Inadvertent Ports may include, but are not limited to: incorrect number provided by End User; typographical errors in LSRs, LOAs, etc.
 - **Fraudulent Port** – A port which occurred as the result of an intentional act of fraud and/or misrepresentation. Examples may include: use of numbers for credit card fraud, vanity number which is an easily remembered sequence of numbers, etc.



PIM 86
Unauthorized Port F

LNPA Transition Discussion - All

The APT continues to review the industry test cases for turning up an NPAC/SMS. The NANC has not directed the LNPA WG to do anything more than to work on the test cases.

IP Transition effects on Number Portability

The Testbed Focus Group met last on 12/13/16.

The test plan sub groups have continued to be encouraged to meet in between the main group meetings, to focus on moving forward with the individual test plan completion of the documentation. Test plan statuses were reviewed. Several test plans still need the documentation worked through and provided for the Testbed Focus Group to review. Some preliminary testing is underway on some test cases. Our Tracking Sheet is updated on each call for each test case.

As a result of the handoffs from the FCC/AT&T Industry RoboCalling Strike Force and the linkage to this group's testing efforts for the Provider to Provider Use Case 1 – Secure Telephony Identity Protocols for End to End SIP Calls, we were made aware of the monthly ATIS readout on the efforts of this and other ATIS groups to the FCC. ATIS also provides the same information in the read out to the Strike Force participants monthly.

The group was also updated on the progress in the ATIS SIP Forum IP/NNI group and the potential for testing the SHAKEN AS/VS (authentication and verification) functions.

Many companies have signed the ATIS NDA for participating in the testing, with full access to the testing documentation, and others may still come forward to sign the NDA as well. Some companies have recently determined to be involved in the testing. There is still opportunity for others to come forward to be included.

Our next full team meeting is scheduled for 1/17/17. The group is planning a face to face meeting February 7, 8, or 9 at ATIS in DC.

One additional item of note:

The Testbed Focus Group has a Test Plan being worked for JIT/ITN Number Assignment, with a recent contribution being submitted on it by Neustar, following their 12/1/16 FCC ex parte on JIT/ITN, filed in CC Dockets 99-200 and 13-97. Here is the link to that filing: <https://ecfsapi.fcc.gov/file/1201289577669/NSR%2012.1.2016.pdf> which suggests a trial.

Develop the LNPA WG Report to the NANC

Paula Campagnoli will develop a draft NANC report.

Unfinished/New Business

1. Paula will ask Marilyn Jones, at the FCC, what other Transition related topics can be discussed at the WG outside of testing (i.e. Rollback)
 - Rollback Requirements need to be completed and if it is determined that any changes to the functional requirements or processes/procedures are necessary, then they may be developed and completed at the LNPA WG, dependent on the FCC determination
2. The LNPA WG Distribution should only be used to distribute information pertaining to the LNPA WG Meetings.
 - Distribution such as Trading Partner Profiles can be taken from the individual emails on the LNPA WG contact lists.
 - Neustar will work to get an auto response generated to those that attempt to send an email to the LNPA distro list informing them that the email should go to the LNPA WG Tri-Chairs.

Discussion of Need for February 8, 2017 LNPA WG Call

A February 8, 2017 call for the LNPA WG will not take place. However, the APT may have a meeting in Feb.

STATUS OF ACTION ITEMS:

- Action Item 070715-01 (PIM 86)-
Update - still being worked on

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

- Action Item: 11082016-01: LNPA WG Tri-chairs to go to the NAPM LLC to ask the TOM to work with the two LNPAs to obtain a recommendation for resolution on support of one or more sFTP sites.

Update: PENDING RESOLUTION sent to the NAPM co-chairs and awaiting feedback

-Action Item: 110816-04 – based on comments from the 11-08-16 meeting, iconectiv to determine the testing certification of the sunset items

Update: will be discussed at the APT meeting on 1/11/2017. Leave open until next LNPA WG meeting

-Action Item 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.

Update: Leave Open

-Action Item 12072016-01 - Action Item– Neustar to send draft notification to the APT for the impacted Service Providers regarding the sunsetted items in Change Order 460.

Update: will be discussed at the APT meeting on 1/11/2017. Leave open until next LNPA WG meeting

January 2017 Meeting Adjourned

Having completed the agenda for the January 10-11, 2017, LNPA Working Group meeting, the meeting was adjourned. The remaining time allotted for meeting on January 11, 2017 will be 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 – T-Mobile/VZ – TBD

December 6, 2017 - call

Next Conference Call ... February 8, 2017 for APT. If needed

Next Meeting ... March 7-8, 2017: Location Denver, COHosted by Comcast