

LNPA WORKING GROUP
May 8-9, 2012 Meeting
Final Minutes

Key West, Florida	Host: Neustar
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LNPA WORKING GROUP ARCHITECTURE PLANNING
TEAM (APT) DISCUSSION:

TUESDAY 05/08/12

Tuesday, 05/08/12, Attendance:

Name	Company	Name	Company
Tracey Guidotti	AT&T	Marcel Champagne	Neustar
Ron Steen	AT&T	Dave Garner	Neustar
Teresa Patton	AT&T	Kristen Hamilton	Neustar
Lonnie Keck	AT&T Mobility	Syed Ali	Neustar
Renee Dillon	AT&T Mobility	Mubeen Saifullah	Neustar Clearinghouse
Matt Nolan	Bright House	Shannon Sevigny	Neustar Pooling (phone)
Marian Hearn	Canadian LNP Consortium	Rosemary Emmer	Sprint Nextel
Jan Doell	CenturyLink (phone)	Jeff Sonnier	Sprint Nextel
Karin Fahrenbruch	CenturyLink (phone)	Suzanne Addington	Sprint Nextel
Rick Dipaolo	CenturyLink (phone)	Ann Fenaroli	Sprint Nextel (phone)
Brenda Bloemke	Comcast (phone)	Nancy Conant	Synchronoss
Devang Naik	DSET	Rosalee Pinnock	Syniverse
Jim Seigler	DSET	Ramesh Chellamani	Tekelec
Linda Peterman	Earthlink Business	Joel Zamlong	Ericsson/Telcordia
Crystal Hanus	GVNW (phone)	Pat White	Ericsson/Telcordia
Kim Isaacs	Integra (phone)	Lisa Marie Maxson	Ericsson/Telcordia (phone)
Bridget Alexander	John Staurulakis, Inc. (phone)	Adam Newman	Ericsson/Telcordia
Karen Hoffman	John Staurulakis, Inc. (phone)	John Malyar	Ericsson/Telcordia
Eric Monkeliën	Level 3 (phone)	George Tsacnaris	Ericsson/Telcordia
Lynette Khirallah	NetNumber (phone)	Kayla Sharbaugh	Ericsson/Telcordia (phone)
Michael O'Connor	Neustar	Steven Koch	Ericsson/Telcordia (phone)

Name	Company	Name	Company
Lavinia Rotaru	Neustar	Paula Jordan	T-Mobile
Pamela Connell	Neustar	Gary Sacra	Verizon
Jim Rooks	Neustar	Jason Lee	Verizon (phone)
Paul LaGattuta	Neustar	Deb Tucker	Verizon Wireless
Stephen Addicks	Neustar	Imanu Hill	Vonage
John Nakamura	Neustar	Darren Krebs	Vonage
Larry Vagnoni	Neustar	Traci Brunner	Windstream
Ed Barker	Neustar (phone)	Dawn Lawrence	XO Communications

NOTE: ALL APT ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “MAY_8_2012 LNPA WG APT ACTION ITEMS” FILE ISSUED IN A SEPARATE E-MAIL FROM THESE MINUTES AND ATTACHED BELOW.



MAY_8_2012 LNPA
WG APT ACTION ITEI

MEETING MINUTES:

2012 LNPA WG Meeting/Call Schedule:

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		dial-in bridge number is 888-412-7808, pin 23272#.		
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September		11 th -12 th	CenturyLink & Tekelec	Denver, Colorado
October		No meeting. 10/9/2012 call if necessary		
November		6 th -7 th	Sprint Nextel	Overland Park, Kansas
December		No meeting. 12/11/2012 call if necessary		

- Continuing evaluation during 2012 will determine if interim conference calls are needed or if the decision to meet face-to-face every other month should be revisited.

March 13, 2012 APT Meeting Minutes Review:

- No changes were made to the DRAFT March 13, 2012 APT meeting minutes, and they were approved as FINAL.

APT Test Plan Review Team Update – John Nakamura, Neustar:

- Review of SOW 24 Test Requirements

Action Item 031312-APT-01: Neustar will revise the attached SOW 24 testing requirements based on changes discussed at the March 13, 2012 APT meeting for review at the May 8, 2012 APT meeting.



SOW 24 - March
2012 LNPA WGaction



SOW 24 - March
2012 LNPA WGaction

- Neustar reviewed the proposed revisions to the SOW 24 test requirements (see attachments above which reflect changes in revisions mode and a clean version).

- The revisions reflect agreements reached by the Test Plan Sub-team that reflect requirements that vendors perform turn-up tests and regression tests in addition to Service Providers instead of ITP.
- There were no objections to making these changes final. Neustar will submit these revisions to SOW 24 to the NAPM LLC.
- Review of Current Turn-up Test Plan Matrix



TUT Plan - TC matrix
- chap 7 - based on R



TUT Plan - TC matrix
- chap 7 - based on R



TUT Plan - TC matrix
- chap 7 - based on R

- John Nakamura, Neustar, reported that a conference call was held to review and revise as necessary the SV sections in the turn-up test plan. A follow-up call will be scheduled to get through the SV sections. A review will be then held in the APT.

Action Item 051011-16: Neustar and Telcordia will create a list of Vendor (ITP) and Service Provider regression test cases, identify which are Vendor (ITP) and which are regression or which are both, determine which are conditional, and which apply to the following four categories:

1. New Service Provider and New Vendor,
2. New Service Provider and Experienced Vendor,
3. Experienced Service Provider and New Vendor,
4. Experienced Service Provider and Experienced Vendor.

The status of this work effort will be provided on the June 14, 2011 APT conference call and at the APT portion of the July 2011 LNPA WG meeting.

Action Item 091311-APT-02: As a part of the effort to review and update the Vendor ITP and Service Provider Turn-up Test Plans, the APT Test Plan Sub-team will identify to the full LNPA WG any functionality that is recommended for consideration to be sunsetted.

- Both Action Item 051011-16 and Action Item 091311-APT-02 remain open.

Discussion of NPAC Support of IPv6 (NANC 447) – All:

Action Item 031312-APT-02: Neustar will add a note in the attached NANC 447 Change Order stating that dual stacks (IPv4 and IPv6) will be supported.



NANC 447.docx

- Neustar reviewed the revision to NANC 447 per Action Item 031312-APT-02. The added note was accepted by the APT.
- Action Item 031312-APT-02 was closed.
- Neustar reported that they are developing an SOW in response to the NAPM LLC's request.

Sunset of Non-EDR Support – All:

Action Item 031312-APT-03: Neustar will contact directly those users that request BDDs with pooled SVs to let them know that support of non-EDR will sunset at the end of 2Q2012. Neustar will provide feedback at the May 8, 2012 APT meeting.



NANC 448.docx

- Neustar reported that none of the users referenced in Action Item 031312-APT-03 had any issues or objections to sunsetting EDR at the end of 2Q2012.
- Neustar reported that they are developing an SOW.
- Action Item 031312-APT-03 was closed.

Discussion of Alternative Interface (NANC Change Order 372) – All:

Action Item 031312-APT-04: Regarding NANC 372 – Alternative NPAC Interface – Neustar will create a tracking document of key questions that need answered and what decisions are made in order to focus our ongoing discussions. Pros and cons of each needed decision will be included in the document, e.g., JSON vs. XML.



NANC 372 -
Alternative NPACInte



NANC 372 - CMIP
and HTTPS pics in PDF

- Service Providers agreed that we would move forward based on the current working assumptions. If we need to change anything down the road as we get deeper into requirements development, we will address it at that time.
- Neustar reviewed the working assumptions. Neustar does not see a need for a SOAP wrapper. No objections to HTTPS were voiced.
- XML vs. JSON:

- XML has much stronger typing. JSON is just defined as a string. JSON would allow different interpretations of things such as SP name. JSON lacks the strong typing of XML. Telcordia asked if there were any backwards compatibility issues with XML. Neustar responded that new fields could be added as optional data in order to support backward compatibility. Telcordia said that both are defined similarly and JSON is lighter weight and could have some advantages in terms of backward compatibility but can support moving forward with either XML or JSON. No objections to moving forward with XML at this time were voiced.
- No objections to moving forward with a connectionless interface were voiced.
- No objections to moving forward with a session-less interface were voiced.
- Push vs. Pull:
 - Neustar raised concerns about meeting response time and throughput requirements in a pull environment. Pull does not require the LSMS to act as a server and have the SP's firewall open to receive pushed downloads. An SP asked if a pull could increase the possibility of out-of-synch conditions. Neustar responded that it could depend on the variations in SP intervals for pulls. It was stated that the LNPA WG could set the minimum and maximum pull intervals. An SP stated that they are more comfortable with push due to its compatibility with current SLRs. No objections to the current working assumption of push were voiced.
- No objections to Neustar's proposal for interface security were voiced. The working assumption is that end-point security will be achieved by enforcing HTTPS client-authentication during the connection establishment phase where NPAC generated keys are distributed to SOAs/LSMSs to facilitate HTTPS client-authentication.
- No objections to retry until successful delivery as opposed to SWIM recovery were voiced.
- Regarding the continuing development of the technical requirements for NANC Change Order 372 – Alternative NPAC Interface – Neustar will develop a list of items that need to be completed and a proposed timeline to complete each. This will be reviewed and discussed at the July 2012 APT meeting.

APT Action Items Not Previously Discussed in Agenda – All:



MARCH_13_2012
LNPA WG APT ACTION

Review of March 13, 2012 LNPA WG APT Action Items:

March 13, 2012 LNPA WG APT Action Items:

- Item 031312-APT-01: This item has been completed and is Closed.
- Item 031312-APT-02: This item has been completed and is Closed.
- Item 031312-APT-03: This item has been completed and is Closed.
- Item 031312-APT-04: This item has been completed and is Closed.

LNPA WG APT Action Items Remaining Open from Previous Meetings:

- Item 051011-16: This item remains Open.
- Item 091311-APT-02: This item remains Open.

Discussion of Need for Interim APT Call(s) – All:

- Test plan calls will be scheduled separately.
- A full APT call will be held on June 12, 2012 from 11am to 1pm Eastern to continue the NANC 372 discussion. The dial-in bridge number is 888-412-7808, pin 23272#.

Next APT Call...June 12, 2012 from 11am to 1pm Eastern...Dial-in bridge number is 888-412-7808, pin 23272#

***Next APT Meeting ...Part of the July 10-11, 2012 LNPA WG Meeting...
Location... Mont Tremblant Quebec, Canada ...
Hosted by Canadian LNP Consortium***

FULL LNPA WORKING GROUP DISCUSSION:

WEDNESDAY 05/09/12

Wednesday, 05/09/12, Attendance:

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LNPA WG ACTION ITI

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March 13-14, 2012 Full LNPA WG Meeting Minutes Review:

- No changes were made to the DRAFT March 13-14, 2012 Full LNPA WG meeting minutes, and they were approved as FINAL.

OBF Ordering Solutions Wireless Service Ordering (WSO) Subcommittee Update (Deb Tucker, Verizon Wireless):

- Since the March 2012 LNPA WG meeting, the Wireless Service Ordering Subcommittee held two interim conference calls. No new issues were introduced and the existing issues below remain open.
- Issue 3441 – WICIS: ICP Validation Change for SUP 1. This issue addresses situations when an Old Service Provider does not receive port cancellation SUP 1s that the New Service Provider has sent prior to responding with Resolution Required or Confirmation responses. Frequency of occurrences is still under review.
- Issue 3442 - WICIS: 90 Day Due Date. This issue addresses the specific situations where a wireline provider sends a port request to a wireless provider with a desired due date greater than 90 days. WICIS has a 90 day restriction on desired due date intervals where the LSR has no restriction. No objections were raised to move forward with removing the restriction on the Desired Due Date and Time (DDD_T) field when NPDI = “B” for wireless to wireline ports. The next step is to review proposed changes to the WICIS document.
- Issue 3429 – WICIS Review for Alignment and Business Practices. This is a blanket issue opened to review the WICIS document for any needed updates.
- The next OBF Ordering Solutions Wireless Service Ordering Subcommittee meeting is scheduled for August 15, 2012.

Action Item 031312-LNPAWG-06: Wireless Service Providers are to determine how frequently they are experiencing issues due to the Old SP and the New SP not being in

synch when a Supp 1 is submitted to cancel a port request. This will be discussed at the May 2012 LNPA WG meeting.

- Verizon Wireless has not seen any instances as described in Action Item 031312-LNPAWG-06 since the implementation of one-day porting. AT&T said this is low volume. Sprint Nextel and T-Mobile has not seen any. Action Item 031312-LNPAWG-06 was closed.

OBF Ordering Solutions Local Service Ordering (LSO) Subcommittee Update (Linda Peterman, EarthLink Business):

- Since the LNPA WG's March 2012 meeting, the Local Service Ordering Subcommittee (LSO) met face-to-face April 16-19, 2012 in Bellevue, Washington, during the ATIS Annual Meeting of Committees (AMOC).
- The LSO Mission Statement was updated and approved by the subcommittee and subsequently approved by the Ordering Solutions Committee on May 1, 2012.
- Local Service Ordering Subcommittee:

Mission: The Local Service Ordering (LSO) Subcommittee develops the requirements and implementation standards for inter-company ordering and provisioning of traditional local telecom services.

Scope: The LSO is responsible for developing, evolving and managing local service processes.

The LSO:

- Defines information models, electronic interface specifications (e.g. XML) and implementation guidelines using the Unified Modeling Approach (UMA).
- Develops all associated local service pre-ordering, ordering, provisioning* and post-ordering business processes and corresponding documentation management.
- Works collaboratively with national industry groups to develop local standards.
- Reviews working documents of other ATIS forums addressing evolving technologies and provides feedback on the associated local ordering requirements.

**Provisioning is inclusive of the design functions up through issuance of the installation work document.*

- Work was completed on 3 issues (in red on Open Issues Chart below), which have been referred to the Ordering Solutions Committee for Initial Closure.

Issues in Final Closure:

None

Issues Withdrawn:

None

Issues in Initial Closure or Initial Pending:

None

Open Issues:

3451.doc 3451att.zip	LSOG: Modify definition of Customer/Provider Negotiations
3450.doc	LSOG: Standard Validation and Submission fields for REQTYPE “C” Simple and Non-Simple Port Orders
3449.doc 3449att.zip	LSOG – Allow for multiple Pilot Numbers on Hunt Group (HGI) form
3447.doc 3447att.zip	LSOG – Add new Response Type (RT) value
3443.doc	LSOG: Increase the Name fields’ length in the 71 and 72 practices
3436.doc 3436att.zip	LSOG – Correction to the ACNA and RACNA fields in the Local Service Request (LSR-071) and Resale Frame Relay (RFR-079) forms.
3382	LSOG: Standardization and consolidation of Directory Listings Inquiry/Response and Listing Reconciliation (from LSOG6) all into the 111 Practice
3381 3381att.zip	LSOG: Standardization of directory listings in the 102 Practice
3373.doc 3373att.zip	LSOG: Standardization of RT of “Z” in the 099 practice for REQTYP “C” to be utilized by all providers

New Issues:

None

Issue 3381 (LSOG: Standardization of directory listings in the 102 Practice)

Documentation was reviewed for accuracy and consistency in titles as well as any missing information necessary for publication. Several actions items were established covering the additional work necessary. A new working document was created, reordering the examples and creating a table of contents. The decision was made to replace clause 3.3, 3.4, and 3.5 of the 102 practice with the new document.

3450/ LSOG: Standard Validation and Submission fields for REQTYPE "C" Simple and Non-Simple Port Orders (from draft minutes)

Participants reviewed the Issue Statement and Suggested Solution (3450.doc).

Points Noted:

Simple ports, as noted in FCC 09-41:

- do not involve unbundled network elements (REQTYP = C (number portability))
- involve an account only for a single line
- do not include complex switch translations (e.g., Centrex, ISDN, AIN services, remote call forwarding, or multiple services on the loop)
- do not include a reseller
- includes directory with End User Listing Treatment as no modification or delete (ELT = A or B)*

Discussion on identification/validation of non-simple ports:

- Non-simple ports (REQTYP = C (number portability)):
 - involve an account for one or more lines
 - could include a reseller
 - includes directory with End User Listing Treatment as no modification or delete (ELT = A or B)*
- Non-simple ports (REQTYP = C (number portability)) - outside of this process and do not include one or more of the following:
 - REQTYP = C, ELT = C
 - unbundled network elements
 - complex switch translations (e.g., Centrex, ISDN, AIN services, remote call forwarding, or multiple services on the loop)
 - projects*
 - single accounts for multiple addresses*

* not defined in FCC 09-41

Points noted:

- Existing simple port validations include:
 - Account number

- Ported telephone number
- Zip code
- Pass code (if applicable)
- Potential non-simple port validations include:
 - Account number
 - Ported telephone number
 - Zip code
 - Pass code (if applicable)
 - Last name
 - End User Name field contains first and last name or business name. How do we validate on last name? It was suggested to be coded to look for the last name within the entire field.
 - House number
 - Street name

Participants agreed to attach the combined REQTYP C data elements that were forwarded to the LNPA WG in 2009 as reference (3450a1).

Action Item: Participants to socialize the suggested path forward for non-simple port validations above and potential impacts within their companies.

Agreement Reached: Participants agreed to the proposed path forward above to move this Issue forward.

Agreement Reached: Issue 3450 will remain open.

The LSO scheduled the following virtual and face-to-face meetings:

DATE	CALL DETAILS
5/24/12	LSO Virtual Meeting Time: 2:00 PM – 4:00 PM (ET) Agenda: All LSO Issues not related to directory (3381 and 3382) or number portability (3450). Bridge: 1-866-861-0354 Passcode: 5317362 Host: Monet Topps
7/23-26/12	LSO Face-to-Face Meeting Location: Sterling, VA Host: Neustar Agenda: Issues 3381 and 3382. Level set expectations for progressing work on Issue 3450.
9/24-27/12	LSO Face-to-Face Meeting Location: St. Louis, MO or Milwaukee, WI Host: AT&T Agenda: Issues 3381 (if needed) and 3382. Start discussions on

	Issue 3450.
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Industry Numbering Committee (INC) Update (Dave Garner, Neustar):

INC Issue 719: Available “Red” Blocks where PSTN Activation has not been confirmed

Issue Statement: Most of the pools are being replenished by the opening of new codes for pool replenishment or for LRN purposes. When a new code is opened the blocks not assigned to the code holder are placed in the available pool with a future effective date and show up on the block available report in “red” until the code holder confirms activation in the PSTN and all other code holder responsibilities have been met. Currently the guidelines allow an SP that is not the code holder to request the assignment of these “red” blocks as long as they acknowledge that they are willing to accept a block in “red” and that they explicitly understand that the underlying CO code may not yet be activated in the PSTN and loaded in the NPAC on the block effective date.

SPs who have been assigned these “red” blocks are encountering delays with the activation of the blocks in these codes. This has caused an increased volume of requests by the SP receiving the block, for the PA to follow up with code holders who have not confirmed PSTN activation by the code effective date. The PA is asked to act as the mediator between the two companies which is causing a lot of extra work.

In addition, the assignment of “red” blocks is causing additional work for the NPAC pooling team since they are often not able to create the block records in the NPAC database at the time of the block assignment because the code holder has not yet established the code in the NPAC database. This is causing the NPAC pooling team to keep separate lists of blocks where the code has not yet been established and then follow up until they are able to create the block record.

The contribution RAM 034 suggested that a timeframe be established for Service Providers to load a new NPA-NXX into the NPAC for pooled codes.

The suggested language to be added to the “Code Holders Responsibility” section in the TBPAG reads:

- Load the NPA-NXX into the NPAC database within 7 calendar days of the code being assigned.

At the April INC meeting, an agreement was reached to add the language to the TBPAG section 4.2.1 - Code Holder Responsibilities of Pooled NXXs, but the timeframe would be 10 calendar days. The new language will read:

- Load the NPA-NXX into the NPAC database within 10 calendar days of the code being assigned by the NANPA.

Agreement was also reached to add this language to the COCAG document in section 6.2.4.

During the INC discussion, it was noted that the NPAC Pooling operations team sends an email notification to the Pooling Administrator (PA) and the Block holder when a Block cannot be created because the code has not been created in the NPAC database. Currently the email asks the PA to contact the Code holder and ask them to load their code in the NPAC. The email also informs the Block holder that this may delay the block's assigned effective date.

INC reached an agreement to request the NPAC Pooling operations team to change the email notification to ask the Block holder to contact the Code holder and ask them to load their code in the NPAC. It was also asked that the appropriate NPAC website location be shown on the email, so the Block holder would know where they could check to verify the code had been created in the NPAC.

NPAC Pooling operations has agreed to the INC request and as of April 25th the change was implemented.

NANC Future of Numbering Working Group Update (Adam Newman, Telcordia and FoN Tri-Chair):

- Adam Newman, Telcordia and FoN Tri-Chair, provided the status and next steps of open active issues and planned future activities for the FoN. The FoN has held two meetings since the last LNPA WG meeting.
- The FoN continues to discuss M2M activities and potential impacts on NANP resources. The FoN discussed coordination with the FCC Technical Advisory Committee on PSTN transition regarding numbering related questions.
- The FoN also reviewed open FTNs:
 - FTN 1 (New & Future Services), FTN 2 (Telematics) and FTN 4 (Geographic Issues) remain open but not actively worked at this time.
- The FoN expects two new issues to be submitted at the next meeting (August) updating for the current environment and that may replace FTNs 1, 2 and/or 4.
- The FoN closed FTN 5 - Commons vs. Market Place Model for Toll-Free numbers.
- The next FoN meeting will be held in August.

Review & Update of LNPA WG Best Practices Document – All:



LNPA_NP_Best_Pract
ices_05-01-2012.doc

Action Item 091311-LNPAWG-05: All **Service Providers** are to review the attached PIM 53 (Inadvertent Port) Contact List and provide any missing or updated contact information to the LNPA WG Co-Chairs by **October 31, 2011**. The Co-Chairs e-mail

addresses are: gary.m.sacra@verizon.com (Gary Sacra), paula.jordan@t-mobile.com (Paula Jordan), and lpeterman@corp.earthlink.com (Linda Peterman).



PIM 53 Service
Provider Contact v7.c

- Action Item 091311-LNPAWG-05 remains open.

Action Item 031511-04: Paula Jordan, T-Mobile and LNPA WG Co-Chair, and Jason Lee, Verizon, and Teresa Patton, AT&T, and Tracey Guidotti, AT&T, will document in LNPA WG Best Practice 30 requirements for ICP during the permissive dialing period for NPA splits. This will be reviewed and discussed at the May 2011 LNPA WG meeting.

- The group continues to work on pros and cons and items that need to be considered. Action Item 031511-04 remains open.

Action Item 031312-LNPAWG-02: Jan Doell, CenturyLink, will revise the “Cancel” flow document per agreements reached at the March 2012 LNPA WG meeting and send it to Gary Sacra, LNPA WG Co-Chair. Next steps for this document will be discussed at the May 2012 LNPA WG meeting.



NANC_OPS_Flows_Narratives
Figure 12 C:

- Action Item 031312-LNPAWG-02 was completed.
- The group agreed that the revised Figure 12 will be incorporated into the NANC LNP Provisioning Flows and eventually taken to the NANC with a request for their endorsement.
- Jan Doell, CenturyLink, will revise the Powerpoint flow for Figure 12 of the NANC LNP Provisioning Flows based on the attached LNPA WG-approved Figure 12 Narrative for the Cancel Flow and send it to Neustar to be converted to Visio. This will be reviewed at the July 2012 LNPA WG meeting.

NOTE: This Action Item has been completed. See attached flow below.



Cancel Flow
12_Markup_JAD.pptx

- **Neustar** will convert the above attached Powerpoint version of Figure 12 of the NANC LNP Provisioning Flows into Visio for review at the July 2012 LNPA WG meeting.

Next Steps for Best Practices Review and Update – All:

- The group agreed that we will make another pass through the Best Practices document prior to taking it back internally within our individual companies for review, and then subsequently determine if we will take all or selected parts of the document to NANC.

PIM Discussion:

- PIM 80 – This PIM submitted by Verizon, seeks to address instances where ported/pooled NPAC database records currently contain LRNs that are in a LATA different from their associated ported/pooled telephone numbers (TNs).



PIM 80.doc

The LNPA WG’s recommendation to the NAPM LLC to request a Statement of Work (SOW) from Neustar for PIM 80 was sent to the NAPM LLC. It was decided to perform the work without an SOW. PIM 80 will remain in a tracking state.

May 2012 status: No change from the March 2012 LNPA WG meeting status -- 98% of SVs and 75% of blocks have been completed.

Change Management – Neustar:



NANC Change
Orders 04-30-12.doc

Action Item 031312-LNPAWG-04: Gary Sacra, LNPA WG Co-Chair, will send a request to the NAPM LLC Co-Chairs asking that a request for Statements of Work be sent to Neustar for the attached NANC 447 (NPAC Support of IPv6) and NANC 448 (Sunset of Non-EDR Support) Change Orders.



NANC 447.docx



NANC 448.docx

- Action Item 031312-LNPAWG-04 is closed. Neustar reported that they are developing SOWs for both Change Orders.
- Discussion of Rescheduling 25K/hour Industry Load Test to 5/23 – All

- Neustar now has sufficient upcoming project transactions and recommended conducting the 25K industry load test on Wednesday, May 23, 2012. The group approved this recommendation.
 - **Neustar** will send a notice out over the Cross-Regional distribution announcing the 25K transaction per hour industry load test which was rescheduled to May 23, 2012.
- NANC 449 Discussion – Comcast and Neustar:



NANC 449 -
active-active SOA - s:

- Neustar and Comcast reviewed the attached updated NANC Change Order 449 with the group. Neustar reported that they worked with Comcast to answer a number of questions that they had.
- Following are the current working assumptions for NANC 449:
 - Network data (NPA-NXX, LRN, Dash-X) will be sent to SOA A & B.
 - SOA Requests (e.g., NSP SV Create Request) sent from SOA A will have Responses sent back to SOA A (this is required as SOA B does not have the invoke ID of SOA A's Request).
 - Notifications initiated at the NPAC (e.g., SV StatusAttributeValueChange) will be sent to both SOA A and SOA B, regardless of whether SOA A, SOA B, other SP SOA, NPAC personnel, or NPAC business rules initiated the transaction that led to the notification.
- An SP asked if this Change Order is for 2 SOAs or for 2 or more SOAs. Comcast responded it is for 2 or more SOAs.
- Neustar asked if Comcast is expecting 7 messages per second for each SOA or for each SPID. Answer was each SOA.
- Neustar asked how the Comcast ordering systems would replicate orders in both SOAs.
- An SP asked if SOA A goes down and 100 notifications are sent to SOA B, when SOA A comes back up, would it expect to receive the 100 notifications in recovery. Comcast responded that they would expect SOA A to recover the 100.

- Neustar stated that there are a number of SPID-level settings and it would be good to clarify in the Change Order if each SOA could be configured separately related to SPID-level settings or if all SOAs on the SPID would be set per each SPID-level setting.
- An SP asked if a provider with multiple SOAs would have an advantage in terms of available bandwidth over a provider with only one SOA per SPID. Neustar responded that it would not.
- Next step is for the Change Order to be updated based on the discussion at the May 2012 LNPA WG meeting for subsequent review.

SPID Migration Enhancement Discussion – All:

Action Item 031312-LNPAWG-09: Service Providers are to determine if they have experienced any challenges to using the current SPID migration enhancements via the LTI and come to the May 2012 LNPA WG meeting prepared to discuss any suggestions for improving the process and its access. See related Action Item 031312-LNPAWG-01.

Action Item 031312-LNPAWG-01: Neustar will provide data at the May 2012 LNPA WG meeting regarding how often (i.e., percentage of SPID migrations) the enhanced SPID migration process is being used. See related Action Item 031312-LNPAWG-09.

- In response to Action Item 031312-LNPAWG-09, CenturyLink, Verizon, and Earthlink reported that they only use an LTI as a back-up for their mechanized interfaces, and do not use the LTI for scheduling their SPID migrations.
- Neustar reported that about 12 out of 126 migrations in 2012 have been scheduled via an LTI. All have been by one provider.
- It was stated that many providers are not taking advantage of the NANC 408 enhancements due to LTIs being decommissioned. An SP asked if something like the secure website could be used for scheduling migrations. Neustar responded that there are edits that use NPAC data that would have to be made available on the internet to do that.
- An SP asked if we should consider another form of access to the scheduling other than the LTI.
- Action Item 031312-LNPAWG-01 was closed.
- Action Item 031312-LNPAWG-09 remains open.

Type 1 Conversion Issues Discussion – All:

Action Item 031312-LNPAWG-08: Regarding the discussion of issues related to the conversion of remaining Type 1 wireless numbers that took place at the March 2012 LNPA WG meeting, **Service Providers** are to come to the May 2012 LNPA WG meeting prepared to discuss any suggestions for improving the process.

- An SP stated that if we have uncooperative carriers, that is likely something that we cannot address in the LNPA WG due to lack of enforceability.
- A wireless SP stated that they have contacted wireline carriers that had their Type 1s working on their switches and convinced them that they were required to cooperate and port out the TNs. They did exchange LSRs/FOCs.
- It was stated that even if the wireline carrier has a waiver, they only need to cooperate by removing the donor switch translations at the proper time so the customer will receive all of their calls.
- It was agreed to close Action Item 031312-LNPAWG-08.

Discussion of INC Issue 722: Review and Reconcile TN Administration Guidelines with Updated NANC LNP Flows – All:



NANC_OPS_Flows_Narratives v4.1 (04-16)

Action Item 031312-LNPAWG 07: Related to the discussion of INC Issue 722: Review and Reconcile TN Administration Guidelines with Updated NANC LNP Flows, that took place at the March 2012 LNPA WG meeting, **Service Providers** are to come to the May 2012 LNPA WG meeting prepared to determine if we will delete or modify the reference to the 18 month maximum interval between disconnect date and effective release date in Step 7 of the attached “Disconnect” flow.

- There were no objections voiced to removing the reference to the 18 month interval.
- **Gary Sacra**, LNPA WG Co-Chair, will revise Step 7 in the attached Narrative to Figure 14 – Disconnect Process for Ported Telephone Numbers – to delete the reference to the 18 month maximum interval between disconnect date and effective release date. This will be reviewed at the July 2012 LNPA WG meeting.

Discussion of 2012 Meeting/Call Agenda Items – All:

Action Item 031312-LNPAWG-03: **Gary Sacra**, LNPA WG Co-Chair, will add an item to the *Brainstorming of Possible Future LNPA WG Agenda Items* document related to the development of a list of carriers’ websites that contain their business rules, to be placed at the top of the LOW priority category.



Brainstorming of
Possible Future LNPA

- Action Item 031312-LNPAWG-03 was completed and is closed.

Action Item 031312-LNPAWG-05: LNPA WG Participants are to come to the May 2012 LNPA WG meeting prepared to determine sub-team participants that will develop a recommended process for addressing Regulatory non-compliances and a recommended process and checklist for addressing future FCC mandates.

- The group agreed that this item will be developed in full LNPA WG instead of a sub-team. Action Item 031312-LNPAWG-05 was closed. Discussion of this will be placed on the July 2012 LNPA WG meeting agenda.

Action Item 110911-LNPAWG-06: All LNPA WG Participants are to provide any ideas for 2012 LNPA WG meeting and call agenda items to the Co-Chairs for discussion at future meetings.

- No new ideas for 2012 agenda items were submitted.
- Action Item 110911-LNPAWG-06 remains open.

Review of 2012 LNPA WG Meeting/Call Schedule – All:



2012 LNPA WG
Meeting and Call Sche

- Other than the addition of the June 12, 2012 APT call, no additional changes were made to the 2012 LNPA WG meeting/call schedule.

Discussion of Need for June 12, 2012 LNPA WG Call – All:

- The group agreed to hold an APT call to continue discussions of NANC 372 - Alternative Interface requirements - on June 12, 2012, from 11am-1pm Eastern. The dial-in bridge number is 888-412-7808, pin 23272#.
- No Full LNPA WG call will be held in June 2012.

Develop June 7th NANC Meeting Report – All:

- The group agreed that the following items would be included in the June 7th NANC report:

- Status of update of LNPA WG's LNP Best Practices
- Rescheduling of planned 25K Transaction Industry Load Test
- Status of update of Vendor and Service Provider Test Plans
- Clarification of Port Cancellation Flow

Unfinished/New Business – All:

- No new or unfinished business was raised by participants.

Action Items Not Previously Discussed in Agenda – All:



MARCH 13-14 2012
FULL LNPA WG ACTIC

Review of March 13-14, 2012 FULL LNPA WG Action Items:

March 13-14, 2012 FULL LNPA WG Action Items:

- Item 031312-LNPAWG-01: This item has been completed and is Closed.
- Item 031312-LNPAWG-02: This item has been completed and is Closed.
- Item 031312-LNPAWG-03: This item has been completed and is Closed.
- Item 031312-LNPAWG-04: This item has been completed and is Closed.
- Item 031312-LNPAWG-05: This item has been completed and is Closed.
- Item 031312-LNPAWG-06: This item has been completed and is Closed.
- Item 031312-LNPAWG-07: This item has been completed and is Closed.
- Item 031312-LNPAWG-08: This item has been completed and is Closed.
- Item 031312-LNPAWG-09: This item remains Open.

FULL LNPA WG Action Items Remaining Open from Previous Meetings:

- Item 031511-04: This item remains Open.
- Item 091311-LNPAWG-05: This item remains Open.
- Item 110911-LNPAWG-06: This item remains Open.

Next Call...June 12, 2012 APT call from 11am to 1pm Eastern...Dial-in bridge number is 888-412-7808, pin 23272#

Next Meeting ...July 10-11, 2012: Location... Mont Tremblant Quebec, Canada ... Hosted by Canadian LNP Consortium