LNPA WORKING GROUP

November 2007 Meeting

Final Minutes

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| --- | --- |
| Ft. Lauderdale, Florida | Host: Sprint Nextel |

**TUESDAY 11/13/07**

Tuesday, 11/13/07, Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Tina Plaisance | Alltel (phone) | Marcel Champagne | | NeuStar |
| Joe Cudo | Alltel (phone) | Paul LaGattuta | | NeuStar |
| Ron Steen | AT&T | Dave Garner | | NeuStar |
| Jim Longua | AT&T (phone) | Mike Panis | | NeuStar |
| Teresa Patton | AT&T (phone) | Linda Peterman | | One Communications |
| Mark Lancaster | AT&T (phone) | Mike Whaley | | Qwest |
| Adele Johnson | AT&T Mobility (phone) | Jan Doell | | Qwest (phone) |
| Renee Dillon | AT&T Mobility | Mary Retka | | Qwest (phone) |
| Lonnie Keck | AT&T Mobility (phone) | Matt Kohly | | Socket |
| Marian Hearn | Canadian Consortium | Michael Klappa | | Sprint Nextel (phone) |
| Nancy Sanders | Comcast | Carol Frike | | Sprint Nextel (phone) |
| Bill Solis | Comcast | Lavinia Rotaru | | Sprint Nextel |
| Chris Brown | Cox | Rosemary Emmer | | Sprint Nextel |
| David Sagor | Delta 3 (phone) | Susan Tiffany | | Sprint Nextel |
| Vicki Goth | Embarq | Doug Babcock | | Syniverse |
| Therese Mooney | Global Crossing (phone) | Adam Newman | | Telcordia (phone) |
| Crystal Hanus | GVNW (phone) | Pat White | | Telcordia |
| Dennis Robins | Integra Telecom (phone) | Paula Jordan | | T-Mobile |
| Angie Beckett | John Staurulakis, Inc. (phone) | Mohamed Samater | | T-Mobile |
| Karen Hoffman | John Staurulakis, Inc. (phone) | Chipp Nelson | | VeriSign |
| Jerome Candelaria | NCTA (phone) | Gary Sacra | | Verizon |
| Randy Buffenbarger | NeuStar | Earl Scott | | Verizon (phone) |
| Greg Roberts | NeuStar | Jason Lee | | Verizon (phone) |
| Charles Ryburn | NeuStar | Sara Hooker | | Verizon Wireless |
| Syed Saifullah | NeuStar | Kathy Rogers | | Verizon Wireless |
| Shannon Sevigny | NeuStar Pooling (phone) | Deb Tucker | | Verizon Wireless |
| John Nakamura | NeuStar | Tom Zablocki | | Vonage |
| Stephen Addicks | NeuStar |  | |  |
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Attached are the Action Items assigned at the November, 2007 LNPA meeting. Also included are the remaining open Action Items from previous meetings.

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NOTE: ALL ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “NOVEMBER 2007 LNPA ACTION ITEMS” FILE ATTACHED ABOVE.

**MEETING MINUTES:**

2007 LNPA WG Meeting/Call Schedule:

Following is the meeting schedule for the 2007 LNPA Meetings and calls.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MONTH/**  **DATE**  **(2007)** | NANC | LNPA-WG | HOST | LOCATION |
|  |  |  |  |  |
| January | TBD | 9th-11th | Cingular | Jackson, Mississippi |
| February | TBD | No meeting.  2/12/07 call from 3pm to 5pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| March | TBD | 13th-15th | Comcast | Denver, Colorado |
| April | TBD | No meeting.  4/10/07 call from 10am to 6pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| May | TBD | 8th-10th | Canadian Consortium | Banff, Canada |
| June | TBD | No meeting.  6/12/07 call from 1pm to 5pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| July | TBD | 10th-12th | NeuStar | Monterey, California |
| August | TBD | No meeting.  8/7/07 call from 1pm to 4pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| September | TBD | 11th-13th | Verizon Wireless | Franklin, Tennessee |
| October | TBD | No meeting.  10/9/07 call from 1pm to 5pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| November | TBD | 13th-15th | Sprint Nextel | Ft. Lauderdale, Florida |
| December | TBD | No meeting.  12/11/07 call from 1pm to 5pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
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09/07 Meeting Minutes Review:

The following changes were made to the DRAFT September 2007 LNPA WG Minutes during the November 2007 meeting. These changes will be reflected in the FINAL September 2007 LNPA WG Minutes.

* Page 23, 1st bullet under NANC 372 Review, change bullet to read, “Deb Tucker stated that she did a search of the ATIS website in order to investigate Action Item 0507-16. The ATIS TOPS Council established a Data Interchange Focus Group to address the multiple standards and message formats and standards interoperability. The recommendation was to migrate to SOAP/XML. It is left up to companies as to when they would move to XML.”

10/07 Call Minutes Review:

* Page 3, 1st bullet under PIM 66 Discussion, delete the redundant “seeks to.”

# OBF Wireless Committee and Intermodal Subcommittee Update (Deb Tucker, Verizon Wireless and OBF Wireless Committee Co-Chair):

* OBF #100 took place November 5 - 9, 2007.
* Mubeen Saifullah (NeuStar Clearinghouse) was elected OBF Wireless Technical Subcommittee Co-Chair, joining Lavinia Rotaru.

**Discussion of Open Issues within the Wireless Committee:**

* Issue 3062 - Remove Fax Support From WICIS - additional updates were made to the Supplemental Document for Fax Transmissions for WICIS. Changes will be reviewed by the participants with an expectation of placing this issue into Initial Closure during an interim conference call on 12/6/07.
* Issue 3118 - WICIS Support of Wireline Jeopardy Responses - The participants agreed to add two fields to WICIS to support the wireline jeopardy process in a separate message for jeopardy processing. The fields will be JCODE and JDET. The wireline RCODE and RDET information will be concatenated into the JDET field and the JCODEs will allow for grouping/categorizing of the jeopardies for automated systems. An interim call will be held December 6th (1 PM Eastern) to discuss the JCODE categories. This issue remains open.
* Issue 3171 - PIN/Password Validation with new CPNI Rules - After reviewing the FCC Order, it was determined that no update of WICIS is required. The participants shared information regarding their current porting validation process and it was determined that there may be additional fallout for pin/password failures.

**New Issues introduced and worked:**

* Three new issues were accepted to work:
  + Issue 3207 - Update implementation rules in Version Control Section of WICIS Volume 1- additional clarification language was added to the Version Control section of WICIS Volume 1 to clarify that vendors are required to be able to implement the new version of the standard on the sunrise date. This issue was placed into Initial Closure.
  + Issue 3208 - Implementation Guidelines for WICIS 4.0.0 - The committee accepted this issue to create a guideline to help minimize interoperability issues that might arise during the WICIS 4.0.0 implementation. This issue remains open.
  + Issue 3209 - Clarification of WICIS Security Requirements - The committee accepted this issue that seeks to further define WICIS security requirements as XML replaces CORBA. This issue remains open.

**Wireless Technical Subcommittee meeting:**

* The OBF Wireless Technical Subcommittee continued work on Issues 3118, 3208 and 3209.
* The subcommittee also discussed XML modeling. The subcommittee agreed that the MyEclipse application selected by ATIS for use in the committees needs to be upgraded in order to be useful for the Wireless Committee's needs. ATIS committees are providing feedback to the vendor regarding additional functionality that should be added to the software. Telcordia offered to generate WICIS models with the tool in order to assist ATIS in determining added functionality that the Wireless Committee needs in order for the tool to be useful for future versions of the WICIS document.
* An interim call will be held December 19th, 1pm Eastern, primarily for the vendors to discuss WICIS 4.0.0 implementation guidelines and progress.

**Intermodal Subcommittee meeting:**

* Issue 3029 - WIR: Wireless Documentation for Mapping Between WICIS and LSOG - This Issue was tabled pending release of the full text of the FCC NPRM related to LNP announced on 10/31/07.
* A mapping analysis of the LSOG 14 and WICIS 4.0.0 was reviewed during the meeting based on a previously provided matrix that mapped LSOG 10 to WICIS 4.0.0. The changes made based on differences between LSOG 10 and 14 were discussed.
* The separate committees had an action item to determine whether an effort should be pursued to define a minimum set of data elements for validation. It was decided that it would be a better use of the committees' time to wait for the full text of the FCC's order to be released.
* The Wireless Committee asked the LSOP committee to review the CPNI rulings to determine impacts to porting. Based on the Committee's analysis, it was determined that the CPNI ruling is relevant to the Retail ordering process and not the Wholesale ordering process that involves porting, therefore there is no impact to LSOG.
* The Wireless Committee discussed WIR Issue 3118 with the participants noting that fields will be added to WICIS to accommodate Jeopardy processing for intermodal porting. Assurance was given that the actual codes and detail provided by the wireline providers will not be manipulated as it is incorporated for wireless processing.

**Next meetings:**

* **Interim conference calls - December 6, 11 AM Eastern and December 19, 1 PM Eastern.**
* **OBF 101 will tentatively take place January 28 - February 1, 2008 in Anaheim/Garden Grove, CA. The Wireless Committee will meet that Tuesday through Thursday. The next Intermodal Subcommittee meeting is also tentatively scheduled for Tuesday, January 29, 2008 from 3pm to 5pm in conjunction with OBF #101.**

Industry Numbering Committee (INC) Update (Adam Newman, Telcordia & INC Vice Chair):

* INC Issues 515, 535, and 543 affect the COCAG and TBPAG and are being worked together. All of these issues address abandoned or returned 1K blocks so a single contribution is now addressing all three.
  + Issue 515: The NAPM LLC has granted permission for an NPAC report. The PA has access to that information.
  + Issue 535 looks to add information on the Part 1A form for contamination levels of returned blocks.
  + Issue 543 updates COCAG for abandoned or returned blocks recognizing the PA’s new access to NPAC data.

All three of these issues make changes to the same sections of the COCAG and TBPAG and address the PA’s use of the NPAC reports. INC continues to work the guidelines. The issues will likely go to Initial Closure at the December INC meeting.

* INC Issue 528: Liaison from NIIF/NIOC regarding testing and code opening guidelines. The TBPAG guidelines will reflect that SPs opening a new code in a pooling environment should perform the code opening testing that is referenced in the NIIF guidelines. The issue went to Final Closure.
* INC Issue 532: No further information was received from Kinsale Mobile. Their application for an assignment of a dedicated easily recognizable NPA for charity services has been denied and the issue is closed.
* INC Issue 539 addresses clarification of Section 8.3.6. Language has been agreed upon on the activation section of the Part 1B form so that blocks going back to the donor switch will not be unnecessarily activated. The issue is now in Initial Pending, pending changes to the PAS system.
* VoIP Subcommittee:
  + Issue 497 – identifies INC guideline changes for direct assignment of numbers to VoIP carriers. The INC has sent out correspondence to other ATIS Committees to update their documents if the FCC makes such a ruling. The INC will also likely send correspondence to the LNPA WG. This issue will likely go to Initial Pending or Tabled status based on how the FCC orders.
* INC Issue 510: Video Relay Service (VRS) Alternatives – The INC VoIP Subcommittee continues to meet weekly to work on a recommendation report to NANC. The report will be a three-part analysis – the way in which NANP numbers will be assigned and used by VRS providers, and an analysis of two potential database solutions (1. NPAC or 2. DNS-based). The INC VoIP Subcommittee is developing a matrix comparing these 2 solutions.

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

* Adam Newman, Telcordia and FoN Co-Chair, provided an update of the NANC FoN Working Group.
* The FoN is currently focusing on the following research:
  + Study of market-based allocation of numbering resources:
    - The FoN is analyzing the Australian model which creates a market for so-called “golden” numbers. The FoN is currently leaning toward focusing the study on toll-free numbers.
  + Geographic link to NANP resources and assignment – impact to services
    - The FoN is currently looking at international use of geographic numbers.
  + New and future services impact of number assignment policy and exhaust:
    - Contributions are now under development.

Wireless Testing Subcommittee (Mohamed Samater (T-Mobile) and Teresa Patton (AT&T), WTSC Co-Chairs):

* Mohamed Samater (T-Mobile) and Teresa Patton (AT&T), WTSC Co-Chairs, reported that the Subcommittee had been meeting on a weekly basis to finalize preparation for the October 14th WICIS 3.1 flash cut.
* A 3.1 Lessons Learned document is being finalized for 11/29 publication.
* WICIS 4.0 is scheduled to flash cut on September 14, 2008.

Architecture Planning Team (APT) Readout (Gary Sacra, LNPA WG Co-Chair):

* Gary Sacra, LNPA WG Co-Chair, reported on the September 2007 APT meeting.

* The APT group reviewed and discussed the following Change Orders at the September 2007 APT meeting:
* NANC 349 – Off-line batch process. Due to concerns remaining over the synchronization of all provider systems and network elements for modifies of routing-related data, it was agreed to move this Change Order to Delete Pending.
* NANC 372 – Alternatives to CMIP protocol.
  + - A number of vendors and providers reported out on a high level their internal plans for migrating to XML. A number are developing their next generation systems using XML, but are not currently planning to migrate legacy systems to XML.
    - The group agreed to move forward as if we are going to migrate to SOAP/XML to determine impacts, requirements, and to determine if we can build a business case.
    - If we determine that we will migrate from CMIP to XML, we would need to address messaging and message content, security, session establishment (e.g., Web services [connectionless] approach to sessions/communications), performance, digital signatures, error handling, audit/large message administration. This would not be a flash cut so both CMIP and XML would have to be supported in NPAC and in local systems.
* NANC 397 – The group continues to discuss the proposal to support 25K activates in an hour.
  + - The group agreed that we will add capacity to the current requirements using the same messages we have today as opposed to new messages. Any new messages will be addressed in a separate Change Order.
    - It was also agreed that a capacity approach higher than 25K in an hour will not be considered at this time. 25K will be the cap.

PIM Discussion:

* PIM 42 – This PIM, submitted by Syniverse, seeks to review the wireline requirement for certain fields on the LSR.



Regarding OBF Issue 2943, the OBF determined that no agreement could be reached within the Intermodal Subcommittee, consisting of ATIS OBF’s Wireless Committee and Local Service Ordering and Provisioning Committee, to resolve this issue. The issue is now in a Tracking state awaiting implementation of FCC Order 07-188.

* PIM 44 – This PIM, submitted by T-Mobile, Sprint, Verizon Wireless, Nextel, Cingular, and US Cellular, seeks to address varying rules among wireline carriers for developing a Local Service Request (LSR) in order to port a number.



Regarding OBF Issue 2943, the OBF determined that no agreement could be reached within the Intermodal Subcommittee, consisting of ATIS OBF’s Wireless Committee and Local Service Ordering and Provisioning Committee, to resolve this issue. The issue is now in a Tracking state awaiting implementation of FCC Order 07-188.

* PIM 51 – This PIM, submitted by Nextel, seeks the prevention of NXX codes being opened to portability in NPAC by the incorrect provider.



NeuStar developed Change Order 414 proposing an automated process to prevent the wrong service provider from opening up a code in NPAC. PIM 51 is now tracking NANC 414 for the automated solution.

Regarding the attached manual process for the PIM 51 cleanup in NPAC, the NAPM LLC approved the LNPA WG’s recommendation to request a Statement of Work (SOW) from NeuStar at their September 2007 meeting. The SOW request has been submitted to NeuStar.



* PIM 54 – This PIM, submitted by Comcast, seeks to reduce the interval for certain wireline-wireline and inter-modal ports to one day.



Action Item 0906-12: Nancy Sanders, Comcast, will determine if Comcast will revise the attached PIM 54 to reflect the scope of the work undertaken by the LNPA WG’s Pre-Port Subcommittee.

Action Item 0906-12 remains open.

The Pre-Port Subcommittee will determine if it will sunset due to the release of FCC Order 07-188. Comcast stated that they still wish to pursue the one-day porting interval proposed in PIM 54.

* PIM 55 – This PIM, submitted by the NeuStar Clearinghouse Vendor, seeks to address issues related to wireline Provider Initiated Activity.



This issue is now in a tracking state awaiting inclusion in the next WICIS Release beyond 4.0, which will likely be deployed sometime in 2009. NeuStar Clearinghouse will submit a contribution.

* PIM 61 – This PIM, submitted by South Central Rural Telephone Coop. Corp. Inc., Duo County Telephone Cooperative Corp., Inc, North Central Rural Telephone Coop., and PNG Telecommunications, seeks to have implemented a VPN access solution for LTI users.



At their September 2007 meeting, the NAPM LLC approved the LNPA WG’s recommendation to request an SOW from NeuStar for a VPN access solution for LTI users. The request for an SOW was subsequently submitted and NeuStar has provided the requested SOW. The SOW for VPN access will be reviewed at the NAPM LLC’s November 2007 meeting. PIM 61 is now in a Tracking state.

* PIM 63 – This PIM, submitted by T-Mobile and Verizon Wireless, seeks to address instances where some carriers are requiring that the customer have service for 30 days before they will approve a port out request.



PIM 63 was accepted at the September 2007 LNPA WG meeting. Paula Jordan, T-Mobile, will revise the PIM to add applicable FCC Order cites. The objective of the submitters of this PIM is to place the issue and its Suggested Resolution in the Best Practices document.

* PIM 64 – This PIM, submitted by VeriSign, proposes a new tunable parameter in NPAC to allow the suppression of LTI-initiated transactions to the mechanized SOAs.



PIM 64 was accepted at the September 2007 LNPA WG meeting. Chipp Nelson, VeriSign, submitted NANC Change Order 423 to address the issue identified in PIM 64. PIM 64 is now in a Tracking state.

* PIM 65 – This PIM, submitted by VeriSign, proposes a priority scheme in NPAC for the notifications generated by the disconnection of pooled thousands blocks.



PIM 65 was accepted at the September 2007 LNPA WG meeting. Chipp Nelson, VeriSign, submitted NANC Change Order 424 to address the issue identified in PIM 65. PIM 65 is now in a Tracking state.

* PIM 66 – This PIM, submitted by VeriSign, seeks to address the data that is received when Mass Updates are performed.



PIM 66 was accepted on the October 2007 LNPA WG conference call. Chipp Nelson, VeriSign, submitted NANC Change Order 426 to address the issue identified in PIM 66. PIM 66 is now in a Tracking state.

Review of NP Best Practices Document (Gary Sacra, LNPA WG Co-Chair) (Action Items 0907-06, 08):



* Gary Sacra, LNPA WG Co-Chair, reviewed the 11-06-07 version of the NP Best Practices document with the group. Items 51, 52, and 53 were added.
* Action Item 0907-06: Regarding the attached LNPA WG NP Best Practices document, Gary Sacra,

LNPA WG Co-Chair, will revise the document to:

1. Add PIM 56 and its Suggested Resolution as Item 51,
2. Add the link to the NIIF Guidelines for Reporting LNP Troubles to the new Item 51,
3. Add PIM 57 and its Suggested Resolution as Item 52,
4. Add PIM 62 and its Suggested Resolution as Item 53.

After revising the document per the above, Gary will send it to Mohamed Samater, T-Mobile, who will revise the HTML version of the document and have it uploaded to the LNPA WG website. See related Action Item 0907-08.

* Action Item 0907-08: Upon receipt of the revised LNPA WG NP Best Practices document from Gary Sacra, LNPA WG Co-Chair, Mohamed Samater, T-Mobile, will revise the HTML version of the document and upload it to the LNPA WG website. See related Action Item 0907-06.
* Action Items 0907-06 and 0907-08 have been completed.
* During the discussion, changes were made to Items 51 and 53. Gary Sacra, LNPA WG Co-Chair, will send the attached revised NP Best Practices document to Mohamed Samater, T-Mobile, to be converted to HTML and uploaded to the LNPA WG website. Gary will also have the Word version uploaded to the website.



15K Stress Test and Failover Exercise Readouts (NeuStar):

  

* Failover exercise:
  + NeuStar reported overall improvement for both NeuStar and the mechanized Users compared to the 2006 exercise. See embedded presentation for statistics and timeline of exercise.
  + NeuStar reported that it was not the same providers as last year that could not fail over successfully during this latest exercise.
  + Service providers that had issues are working with their vendors and network teams to address failover problems. NeuStar is continuing to follow up and test with providers that had issues.
* 15K Test:
  + LSMS readout:
    - NeuStar reported that 94% (239 out of 253) LSMSs performed flawlessly with no delays.
    - An additional 10,000 inbound transactions (Creates and Activates) were submitted by several providers in the WC Region between 4:30 – 5:00 am. This resulted in an additional 10,000 transactions for NPAC to process and 5,000 downloads for LSMSs to process in the WC Region.
    - Service Providers are to determine if the Large Port Notification will be raised from the current 10K threshold to 15K.
  + SCP readout:
    - NeuStar reported higher participation in this test and the results were as good as or better than the previous February 2007 test.
    - Most systems experienced only seconds between NPAC broadcast and SCP update.

2008 SPID Migration Blackout Dates (Action Item 1007-01):

Action Item 1007-01: LNPA WG Participants are to come to the November 2007 meeting prepared to develop the SPID Migration blackout dates for 2008. Any dates in addition to the 1st Sunday of each month and major holidays should also be identified.

* The LNPA WG established the following 2008 SPID Migration blackout dates:
  + 1/6/08 (1st Sunday of month)
  + 1/20/08 (Martin Luther King Holiday)
  + 2/3/08 (1st Sunday of month)
  + 2/17/08 (President’s Day)
  + 3/2/08 (1st Sunday of month)
  + 3/16/08 (AT&T request)
  + 3/23/08 (Easter)
  + 4/6/08 (1st Sunday of month)
  + 5/4/08 (1st Sunday of month)
  + 5/25/08 (Memorial Day)
  + 6/1/08 (1st Sunday of month)
  + 7/6/08 (1st Sunday of month)
  + 7/20/08 (AT&T request)
  + 8/3/08 (1st Sunday of month)
  + 8/31/08 (Labor Day)
  + 9/7/08 (1st Sunday of month)
  + 9/14/08 (Verizon Wireless request for WICIS 4.0)
  + 10/5/08 (1st Sunday of month)
  + 11/2/08 (1st Sunday of month)
  + 11/16/08 (AT&T request)
  + 11/30/08 (Thanksgiving)
  + 12/7/08 (1st Sunday of month)
  + 12/21/08 (Christmas)
  + 12/28/08 (New Year’s)

Discussion of LNP Order Adopted by FCC (All):



* In preparation for tomorrow’s discussion with NANC Chairman Tom Koutsky, the group reviewed and discussed the attached FCC Order 07-188, released on 11/08/07.
* With regard to the 4 end user validation fields (Telephone Number, Account Number, Zip Code, and Password (if applicable):
  + The OBF has a call scheduled for 12/5/07 to discuss what work needs to be done related to the LSOG, WICIS, etc.
  + Use of these 4 fields for end user validation is required 90 days from the November 8th release of the Order.
  + It is anticipated at this point in time that the LNPA WG will not have much work to address this portion of the Order.
  + The group’s interpretation at this point is that a provider cannot ask for any more than these 4 fields for end user validation.
  + One provider expressed a concern that it is not clear as to what the definition of Account is – BTN, EATN, Account No. on end user’s bill, etc.
  + Some wireless carriers that validate on the last 4 digits of the end user’s SSN expressed concern that if that is not allowed, it could delay the validation process.
  + A lengthy discussion then ensued regarding concern that the FCC has mandated that only these 4 fields can be required on the LSR or WPR. Fields such as SPID and Due Date are required fields for the NPAC. If we send back an LSR or WPR for clarification because of a past Due Date, for example, have we violated the Order because we validated on Due Date? A key concern is what is considered validation vs. provider business rules. This will be raised with Chairman Koutsky tomorrow.
  + Another concern raised was the definition of a Simple Port and the differing provider implementations that support different quantities of TNs as a Simple Port.
  + Identified work to be done – identify what other fields are required for the porting process, e.g., Due Date and SPID.
* With respect to the obligation to port on the part of Interconnected VoIP providers, it is anticipated at this point that we will need to revise the NANC LNP Provisioning Flows to include Interconnected VoIP providers.
* If a shortened porting interval is eventually ordered, we will have to revise the NANC LNP Provisioning Flows. The T1 and T2 timer values in the NPAC will have to be modified, however, these are tunable values. We will have to review all other timers to determine if any others need to be revised. All other timers are tunable values, as well.

Discussion of PIM 60 Appeal (All):



* In preparation for tomorrow’s discussion with NANC Chairman Tom Koutsky, the group reviewed and discussed the attached appeal by CenturyTel to NANC of the action taken by the LNPA WG with respect to PIM 60.
* The group reviewed its consensus process and confirmed that it is consistent with the definition of consensus and how it is to be reached detailed in the NANC operating procedures.
* The group then discussed and reconfirmed that the intent of the caveats placed in the LNPA WG’s Best Practices document (Item 50) is to address what the group felt to be necessary for porting in conjunction with FX service, which was reached by consensus. These caveats are meant to address porting in conjunction with FX service in general and are not meant to address the specific dispute between CenturyTel and Socket. The LNPA WG did not seek to determine if the port in dispute satisfied the criteria placed in the Best Practices.

**WEDNESDAY 11/14/07**

Wednesday, 11/14/07, Attendance:

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| **Name** | **Company** | **Name** | **Company** | | |
| Tina Plaisance | Alltel (phone) | Syed Saifullah | | NeuStar |
| Joe Cudo | Alltel (phone) | Tara Farquhar | | NeuStar Pooling (phone) |
| Ron Steen | AT&T | Shannon Sevigny | | NeuStar Pooling (phone) |
| Mel Clay | AT&T (phone) | John Nakamura | | NeuStar |
| Jim Longua | AT&T (phone) | Stephen Addicks | | NeuStar |
| Teresa Patton | AT&T (phone) | Marcel Champagne | | NeuStar |
| Mark Lancaster | AT&T (phone) | Paul LaGattuta | | NeuStar |
| Charlie James | AT&T (phone) | Dave Garner | | NeuStar |
| Adele Johnson | AT&T Mobility (phone) | Mike Panis | | NeuStar |
| Renee Dillon | AT&T Mobility | Linda Peterman | | One Communications |
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| Mark Raab | AT&T Mobility (phone) | Mary Retka | | Qwest (phone) |
| Marian Hearn | Canadian Consortium | Matt Kohly | | Socket |
| Nancy Sanders | Comcast | Carol Frike | | Sprint Nextel (phone) |
| Bill Solis | Comcast | Lavinia Rotaru | | Sprint Nextel |
| Cindy Sheehan | Comcast (phone) | Rosemary Emmer | | Sprint Nextel |
| Chris Brown | Cox | Susan Tiffany | | Sprint Nextel |
| Suzanne Howard | Cox (phone) | Doug Babcock | | Syniverse |
| Jennifer Hutley | Cox (phone) | Colleen Collard | | Tekelec (phone) |
| David Sagor | Delta 3 (phone) | Pat White | | Telcordia |
| Vicki Goth | Embarq | Paula Jordan | | T-Mobile |
| Therese Mooney | Global Crossing (phone) | Mohamed Samater | | T-Mobile |
| Dennis Robins | Integra Telecom (phone) | Chipp Nelson | | VeriSign |
| Angie Beckett | John Staurulakis, Inc. (phone) | Gary Sacra | | Verizon |
| Karen Hoffman | John Staurulakis, Inc. (phone) | Earl Scott | | Verizon (phone) |
| Tom Koutsky | NANC Chairman (phone) | Jason Lee | | Verizon (phone) |
| Jerome Candelaria | NCTA (phone) | Sara Hooker | | Verizon Wireless |
| Randy Buffenbarger | NeuStar | Kathy Rogers | | Verizon Wireless |
| Greg Roberts | NeuStar | Deb Tucker | | Verizon Wireless |
| Charles Ryburn | NeuStar | Tom Zablocki | | Vonage |
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**MEETING MINUTES:**

Q&A with NANC Chairman Tom Koutsky (All):

NANC Chairman Tom Koutsky joined the LNPA WG for a discussion of two items, FCC Order 07-188, released on November 8th, and the appeal to NANC by CenturyTel of the action taken by the LNPA WG related to PIM 60.

* FCC LNP Order 07-188



* + Chairman Koutsky directed the LNPA WG to develop an Implementation Plan outlining the work required on the part of the LNPA WG to implement the FCC Order. The plan (no more than 2-3 pages) is to include what needs to be done, and the schedule for completing the work. The plan is also to include what work needs to be done by other industry groups, e.g., OBF, and their schedule for completion. The Implementation Plan is to focus only on what has been ordered.
  + Chairman Koutsky further directed the LNPA WG to reach out to VoIP providers for participation in the development and implementation of the plan.
  + Chairman Koutsky was asked for his interpretation of the Order with respect to the 4 validation fields. He responded by stating that in his view of the Order, a provider cannot require fields to be populated on an LSR or WPR in addition to the 4 validation fields – Telephone Number, Account Number, Zip Code, and Password (if applicable).
  + **A conference call will be held on Tuesday, December 11th, from 1pm to 5pm Eastern, to begin development of the Implementation Plan. The bridge number for the call will be 888-412-7808 PIN 23272#.**
  + Regarding the development of the Implementation Plan directed by the NANC

to address the November 8th LNPA WG Order, Gary Sacra and Paula Jordan, LNPA WG Co-Chairs, will:

1. Develop a straw plan for discussion on December 11th call,
2. Reach out to VoIP providers for participation on December 11th call,
3. Inform NANC of the LNPA WG schedule of calls and meetings to develop the plan.
4. Inform NANC Chairman Tom Koutsky of Comcast’s request that the

LNPA WG expeditiously address their PIM 54 proposal for shortening the porting interval to one day for carriers that interface electronically by submitting a recommendation to the FCC while the NPRM proceeding is still open.

1. Distribute the version of the NANC LNP Provisioning Flows that will be used as the baseline for revision.
   * All LNPA WG Participants are to be prepared on the December 11th conference call to develop the Implementation Plan detailing the work necessary by the LNPA WG and other industry groups to address the November 8th FCC LNP Order. The NP Best Practices document should also be reviewed to determine if any changes or additions are warranted.

* PIM 60 Appeal



* + Chairman Koutsky stated that a report in response to the CenturyTel appeal will be prepared and will go to the FCC.
  + Chairman Koutsky will identify a NANC member to interview the relevant parties and develop the report.
  + A draft of the report will be furnished by the next NANC meeting (tentatively in late January or early February) for review.
  + Chairman Koutsky stated that the language placed in the LNPA WG’s Best Practices (Item 50) will remain as is during the appeal process.

Revised NANC and PIM Issues Matrices (Action Item 0907-05) (All):

 

Action Item 0907-05: Regarding the attached NANC and PIM Issues matrices, Gary Sacra, LNPA WG Co-Chair, will:

1. Accept the revisions to the NANC Issues Matrix (LNPA WG Issues Status Matrix),
2. Add PIMs 64, 65, and 66 to the LNP Problem/Issue Tracking Matrix (LNPAWG Issue Matrix),
3. Upload both revised documents to the LNPA WG website.

* Action Item 0907-05 was completed.
* Gary Sacra, LNPA WG Co-Chair, reviewed with the group the versions of the NANC LNPA WG Issues Status Matrix and the LNPA WG Issue Matrix attached above. Minor revisions were made to both documents.
* Gary Sacra, LNPA WG Co-Chair, will upload the attached two issues documents to the LNPA WG website.

 

Change Management Discussion (NeuStar):



* NANC 372 – Alternatives to CMIP Protocol:
  + NANC 372 will be further reviewed in the APT and the elements necessary to build a business case will be discussed.
* NANC 402 – Validate Code Owner (SPID) Before Opening Code (related to PIM 51):
  + The LLC has requested an SOW for a manual cleanup process which is under development by NeuStar.
* NANC 408 – SPID Migration Automations:



* + 95% of SPID migrations year to date have had less than 25K impacted SVs.
    - 332 of 353 SPID migrations had less than 25K SVs. Many had 0.
    - NeuStar will develop and provide a spreadsheet detailing the breakdown of SVs impacted by each migration.
    - Action Items 0907-10, 0907-12, 0907-13:

Action Item 0907-10: Regarding the attached NANC 408, Local System Vendors are to

1. determine if modifying the SPID attribute for network data with an Action over the interface would be a problem in their respective systems. See related Action Item 0907-12.
2. provide input on modifying SPID over the interface for involved SVs. See related Action Item 0907-13.

Action Item 0907-12: Regarding the attached NANC 408, Service Providers with local systems that they have developed are to determine if modifying the SPID attribute for network data with an Action over the interface would be a problem in their respective systems. See related Action Item 0907-10.

Action Item 0907-13: Regarding the attached NANC 408, all Service Providers are to provide input on modifying SPID over the interface for involved SVs. See related Action Item 0907-10.

* + - * Telcordia responded that performing the migration over the interface would not pose a problem with their systems.
      * NeuStar will develop sample messages for performing the SPID modification over the interface in order for vendors and SPs to address Action Items 0907-10 and 0907-12, respectively.
  + The self-service function is still desired for NANC 408.
  + Question – what is the expectation for concurrence of the Old SPID? Information for SPID migrations would be entered online at time the reservation is made for a migration date. NeuStar could then contact the Old SPID for concurrence. NeuStar will provide this detail in the Change Order.
  + The original NANC 323 stipulated that the migration should be done as close to but not before the LERG-effective date. Question – what are the negative impacts of not synchronizing SPID migration date and LERG-effective date? Porting problems could occur due to misidentification of the current SPID.
  + A major advantage of doing the SPID migration over the interface is the flexibility in scheduling the migration in order to synch up with the LERG-effective date.
* NANC 414 – PIM 51 Manual Cleanup Process (Action Item 0707-13)

Regarding the attached NANC 414, Service Providers are to submit their SPID to OCN relationships to Steve Addicks ([Stephen.addicks@neustar.biz](mailto:Stephen.addicks@neustar.biz)), indicating if they have any cases where an OCN is associated with more than one SPID.



* + NeuStar has received 11 responses to date.
  + Action Item 0707-13 is closed.
* NANC 423 – LTI Transaction Filter:
  + This Change Order is related to PIM 64, submitted by VeriSign.
  + Currently, when a SPID has both LTI & SOA connectivity/usage, LTI generated transactions are broadcast to their respective SOA as well. This potentially creates more work for the SOA when receiving unwanted LTI data. This Change Order requests functionality that filters out or eliminates unwanted LTI transaction data broadcast to the SOA. Should the need arise to see this data in the SOA it could be obtained via an Audit-in activity.
  + This could be implemented with a toggle switch.
  + NPAC knows the origination because it is tagged (LTI or SOA).
* NANC 424 - Number Pool Block (NPB) Disconnect Notification Priority Indicator
  + This Change Order is related to PIM 65, submitted by VeriSign.
* When Number Pool Blocks (NPBs) are disconnected, the defined flow (IIS B.4.4.24) includes an SV Donor Disconnect notification to the Donor SOA. In some instances, the Donor SOA may not wish to receive these notifications. In the current notification prioritization functionality, there is no option to indicate a priority level specific to a de-pool and the associated SV Donor Disconnect notifications. Without this option, the Donor SOA may receive unwanted notifications (if not supporting range notifications, could receive up to 1000 notifications).
* NeuStar will review the Notification Priority Table to determine if this request to inhibit these notifications can be handled by a setting in that table.
* NANC 426 - Provide Modify Request Data to the SOA from Mass Updates:
  + This Change Order is related to PIM 66, submitted by VeriSign.
* Currently, when the NPAC conducts a mass update for a SOA customer; the SOA does not receive any notifications containing the modified attributes. For SOAs that maintain SV data beyond the time of port activation, this creates an out-of-synch situation between the SOA database and the NPAC database.
* NANC 419 - User Prioritization of Recovery-Related Notifications:

Action Item 0907-14: Regarding NANC 419, Recovery Notifications Prioritization, Service Providers are to determine if they prefer on the SP profile just a single recovery-related tunable or a tunable for each of the 7 individual recovery-related activities, e.g., activate, modify, disconnect. Is there a business need to have them separated out? Lacking a business need, it would be simpler and less confusing to have a single tunable.

* No business need was identified for differentiation.
* Action Item 0907-14 was closed.
* NANC 425 - Large Volume Port Transactions and SOA Throughput Using Message Efficiency (son of NANC 397):
  + Going forward, discussion of everything outside of the 25K/hr increase (NANC 397) will be documented in this Change Order.

2007 and 2008 Meeting/Call Schedule (All):

 

October 10th NANC Meeting Readout (Gary Sacra/Paula Jordan, LNPA WG Co-Chairs):



* Gary Sacra, LNPA WG Co-Chair, reported out on the October 10th NANC meeting. He reported that the FCC Action Item Report related to RM 11-299 was well-received by the NANC and was subsequently submitted to the FCC for inclusion in the open docket.

Discussion of Need for December Conference Call (All):

#### It was agreed to hold a call on December 11th from 1pm to 5pm eastern. The bridge number is 888-412-7808 PIN 23272#

* The agenda will consist of:
  + Development of the Implementation Plan for FCC Order 07-188

Review of September 2007 LNPA WG Action Items:



**September 2007 LNPA WG Action Items:**

* Item 0907-01: This item has been completed and is Closed.
* Item 0907-02: This item has been completed and is Closed.
* Item 0907-03: This item has been completed and is Closed.
* Item 0907-04: This item has been completed and is Closed.
* Item 0907-05: This item has been completed and is Closed.
* Item 0907-06: This item has been completed and is Closed.
* Item 0907-07: This item has been completed and is Closed.
* Item 0907-08: This item has been completed and is Closed.
* Item 0907-09: This item has been completed and is Closed.
* Item 0907-10: This item remains Open.
* Item 0907-11: This item remains Open.
* Item 0907-12: This item remains Open.
* Item 0907-13: This item remains Open.
* Item 0907-14: This item has been completed and is Closed.

**September 2007 APT Action Items:**

No Action Items were assigned at the September 2007 APT meeting.

**LNPA WG Action Items Remaining Open from Previous Meetings:**

* Item 0605-22: This item remains Open.
* Item 0706-06: This item remains Open.
* Item 0906-12: This item remains Open.
* Item 0906-14: This item remains Open.
* Item 0507-03: This item remains Open.
* Item 0507-11: This item remains Open.
* Item 0707-13: This item has been completed and is Closed.

**APT Action Items Remaining Open from Previous Meetings:**

* Item 0507-16: This item has been completed and is Closed.
* Item 0707-16: This item has been completed and is Closed due to dormancy of NANC 425.
* Item 0707-17: This item has been completed and is Closed.
* Item 0707-18: This item has been completed and is Closed.

Review of October 2007 Action Items:



**October 2007 LNPA WG Action Items:**

* Item 1007-01: This item has been completed and is Closed.

Follow-up Discussion of LNP Order Implementation Plan:

* Interconnected VoIP provider changes to flows and narratives:
  + Use the version of flows as a baseline that includes existing Conflict and Undo Cancel modifications.
  + Need to consider definition of Simple Port when reviewing flows.
* Identify the fields that the process requires (essential porting data)
  + Identify OBF work
    - Local Service Order Migration Guidelines may need revision for Interconnected VoIP.
    - Identify what changes to WICIS and LSOG are necessary
      * Concern raised if providers implement based on their interpretation of Order vs. all developing to revised WICIS and LSOG standards.
    - Develop timeline for any identified changes
* We will need to revisit the Best Practices for any changes or additions.
* Implementation dates for rural carriers – carriers need to be cognizant of what state waivers are in effect.

Unfinished/New Business:

* Mike Whaley, Qwest: Qwest reported that they have discovered that some companies do not populate the Vertical Services (CNAM/LIDB/CLASS/ISVM) Point Code entries correctly on port and pooled records. This creates a large volume of Message Transfer Part (MTP) routing errors in participating networks and also creates the need for multiple change orders and re-broadcasts to get the records repaired.

Also, the Vertical Service will not function for the ported/pooled customer when accessed by any company but the Vendor. (This is due to the Vendor’s Override GTT’s they have in place that override the vertical service point codes within their home network, as part of normal processing. So the Vendor may not be aware of the problem unless contacted by another provider.)

Qwest suggests a modification be made to the NPAC’s incoming order flow system by maintaining a table of “valid” industry Vertical Service Point Codes (which for discussion purposes Qwest refers to a “VST” or Vertical Service Table). The VST would be used to detect errors as the port record flows into the NPAC system and gets distributed to all providers. Qwest proposed two VST processing options:

**Option 1:** Stop the record with an invalid entry from flowing and kick the record back to the originator to be fixed. This could have the downside of delaying the actual porting, but would insure correct entries are on the record from the start, thereby reducing the amount of record re-broadcasts. Over time this method may help create the incentive for all providers to be accurate 100% of the time.

**Option 2:** Discard the offending point code entry, and let the record flow thru and at the same time create an error message to be sent back to the submitting company so they can research and correct the problem. There is no downside to this method to the porting customer since that vertical service would not have worked in other networks anyway, with an erroneous point code entry. However, this option would not solve the multiple record re-broadcasts issue.

The VST at the NPAC will cause some level of processor time that would have to be defined by system developers. Also, the industry would have to create the “valid entry” list to be supplied to NPAC. The responsibility for the validation list would be up to each carrier. Then the NPAC would have to maintain and update the table as necessary with the entries provided. Another table alternative would be for the NPAC to allow each carrier to update and maintain their own table entries, directly in the NPAC system.

If implemented, Qwest stated that this will result in reduced costs in customer trouble reports for Vertical Service failures, and it will reduce the amount of errors SS7 translators or others have to try and resolve. (In some cases Qwest has encountered situations that have taken a full year to get the submitting companies to resolve their problem and to get the correct point codes on the record for the vertical services.) Qwest further stated that this could also significantly reduce the amount of re-broadcasts and their associated costs.

Mike Whaley, Qwest, will:

1. Provide a write-up of the issue to the LNPA WG Co-Chairs for distribution to the group,
2. Submit an NPAC Change Order addressing the issue.

A Local System Vendor stated that an alternative could be to maintain DPC/SSN data on an LRN basis rather than an individual SV basis. It was stated that an advantage to the Qwest proposal is that it only affects the NPAC and not other systems.

* Gary Sacra, Verizon (N-1 interLATA EAS issue):

Gary Sacra, Verizon, reported continuing issues with some carriers not performing the donor switch query on interLATA EAS calls per the attached LNPA WG N-1 Interpretation document. This is resulting in dropped calls to numbers that have ported out or pooled out of the donor switch in EAS areas.

Gary Sacra, LNPA WG Co-Chair, will send this document to the LNPA WG distribution with a request that it be reviewed and the EAS interpretation reinforced within each provider’s company.



Service Providers are to review internally the EAS N-1 interpretation documented by the LNPA WG in the attached and reinforce its interpretation within their respective companies.

* Comcast requested that the LNPA WG consider expeditiously addressing their PIM 54 proposal for shortening the porting interval to one day for carriers that interface electronically by submitting a recommendation to the FCC while the NPRM proceeding is still open. One participant stated that it is appropriate to await conclusion of the FCC proceeding. Another participant stated that the LNPA WG priority is the mandates in the Order. Gary Sacra and Paula Jordan, LNPA WG Co-Chairs, will inform NANC Chairman Koutsky of this request.

**THURSDAY 11/15/07**

**ARCHITECTURE PLANNING TEAM (APT) MEETING**

Thursday, 11/15/07, Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Ron Steen | AT&T | Lavinia Rotaru | | Sprint Nextel |
| Renee Dillon | AT&T Mobility | Susan Tiffany | | Sprint Nextel |
| Marian Hearn | Canadian Consortium | Adam Newman | | Telcordia (phone) |
| Bill Solis | Comcast | Pat White | | Telcordia |
| Ron Noseworthy | Cox (phone) | Kamrul Naser | | Telcordia (phone) |
| Charles Ryburn | NeuStar (phone) | Mohamed Samater | | T-Mobile |
| Syed Saifullah | NeuStar | Chipp Nelson | | VeriSign |
| John Nakamura | NeuStar | Gary Sacra | | Verizon |
| Stephen Addicks | NeuStar | Earl Scott | | Verizon (phone) |
| Dave Garner | NeuStar | Jason Lee | | Verizon (phone) |
| Mike Panis | NeuStar | Kathy Rogers | | Verizon Wireless |
| Mike Whaley | Qwest | Deb Tucker | | Verizon Wireless |
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**APT MEETING MINUTES:**

APT Mission Statement: To assess Number Portability industry production technical issues within the purview of the LNPA Working Group and develop recommendations for the strategic direction of the Number Portability architecture.

The current edition of the APT will focus on end-to-end LNP performance, including production needs, large ports, and testing and certification.

NANC 372 Review (Action Items 0507-16, 0707-17, 0707-18) (All):

Action Item 0507-16: Regarding the discussion of NANC 372, which proposes investigation of an alternative to the CMIP protocol, Sue Tiffany, Sprint Nextel, and Deb Tucker, Verizon Wireless, are to investigate if ATIS developed a business case to justify the migratation from CORBA to SOAP/XML.

Action Item 0707-17: Regarding NANC 372, Alternatives to the CMIP interface, Local System Vendors are to determine if their respective companies have embraced the ATIS migration to XML and, if so, what are the implications of staying on CMIP for the LNP application. See related Action Item 0707-18.

Action Item 0707-18: Regarding NANC 372, Alternatives to the CMIP interface, Service Providers are to determine if their respective companies have embraced the ATIS migration to XML and, if so, what are the implications of staying on CMIP for the LNP application. See related Action Item 0707-17.

* It was reported that the ATIS migration to SOAP/XML was a recommendation and not a directive.
* It was asked if we want to maintain the session approach like CMIP or do we prefer the web services approach?
* Security and performance are major considerations. We may need to do message compression with SOAP/XML because of the larger message size.
* We need to get to the point where we can determine whether or not we can build a strong business case.
* Action Item 0707-18: Wireless Committee has embraced XML and is migrating WICIS to XML on 9/14/08. Discussions on security are ongoing. For VPN, they looked at HTTP for security. For dedicated links, they looked at HTTPS.
* Sue Tiffany, Sprint Nextel, will obtain the OBF Wireless Committee presentation on the benefits of XML and obtain the Committee’s notes related to security for review and discussion at the January 2008 LNPA WG meeting.
* Telcordia and a number of carriers reported that they are developing next generation systems with XML, and any new functionality for interaction between legacy and next generation will be XML, but there are no current plans for the mass migration of legacy systems to XML.
* Action Items 0507-16, 0707-17, and 0707-18 were closed.

NANC 425 Review (son of 397):

* NANC 397 is now strictly proposing a change to NPAC-LSMS throughput requirements from 4.0 to 7.0 transactions per second.
* A participant stated that they would like to see the stress test become a recurring test at least once a year.
* NANC 397 is considered done in terms of discussion at this time.
* One option for NANC 425 addresses message efficiency at the list or range level. It was determined to eliminate this option due to lack of perceived value.
* Another NANC 425 option is selection criteria instead of list or range.
* It was questioned why we are working NANC 425 when it appears we are getting closer to the 25K/hour throughput rate proposed in NANC 397 based on the last stress test.
* It was suggested that we could develop a new message over the interface that broadcast mass update criteria to local systems. LSMS could then support this new message and broadcast the update criteria to the SCPs. This would address synchronization issues with the updates in the network elements.
* It was further suggested that we may want to deal with this need for higher throughput with the proposed NANC 397 increase, and consider these other alternatives in NANC 425 when the cost of subsequently increasing throughput becomes prohibitive.
* It was agreed that we will suspend discussion of NANC 425 at this time. We can restart discussion at any time in the future if the conventional means of dealing with increased throughput requirements ala NANC 397 is not justified.
* Gary Sacra, LNPA WG Co-Chair, will place on the January 2008 LNPA WG agenda a group discussion of whether NANC 397, Large Volume Port Transactions and SOA Throughput, should be considered for packaging as a standalone Change Order or should the group begin discussions of the next NPAC software release with NANC 397 possibly included in it.

Action Item Review/Topics/Agenda for Discussion at Next Meeting:

* NANC 372

***Next LNPA WG Conference Call … December 11, 2007, 1pm – 5pm Eastern,***

***888-412-7808, PIN 23272#***

***Next LNPA WG Meeting …******January 8-9, 2008, Ft. Scottsdale, Arizona –***

***Hosted by Telcordia***