LNPA WORKING GROUP

March 2007 Meeting

Final Minutes

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| --- | --- |
| Denver, Colorado | Host: Comcast |

**TUESDAY 03/13/07**

Tuesday, 03/13/07, Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Tina Plaisance | Alltel (phone) | Shannon Sevigny | | NeuStar Pooling (phone) |
| Scotty McDonald | Alltel (phone) | John Nakamura | | NeuStar |
| Joe Cudo | Alltel (phone) | Stephen Addicks | | NeuStar |
| Mark Lancaster | at&t | Marcel Champagne | | NeuStar |
| Cyd McInerney | at&t | Paul LaGattuta | | NeuStar |
| Ron Steen | BellSouth | Dave Garner | | NeuStar |
| Marian Hearn | Canadian Consortium | Mike Panis | | NeuStar |
| Michael Penn | Century Tel (phone) | Mike Whaley | | Qwest |
| Max Cox | Century Tel (phone) | Michael Klappa | | Sprint Nextel (phone) |
| Cal Calmshaw | Century Tel (phone) | Carol Frike | | Sprint Nextel |
| Guy Miller | Century Tel (phone) | Rosemary Emmer | | Sprint Nextel |
| Joey Bales | Century Tel (phone) | Susan Tiffany | | Sprint Nextel |
| Teresa Patton | Cingular | Lavinia Rotaru | | Sprint Nextel |
| Renee Dillon | Cingular | Doug Babcock | | Syniverse |
| Adele Johnson | Cingular | Jason Kempson | | Telcordia (phone) |
| Nancy Sanders | Comcast | Adam Newman | | Telcordia |
| Chris Brown | Cox (phone) | Paula Jordan | | T-Mobile |
| Vicki Goth | Embarq | Mohamed Samater | | T-Mobile |
| Kathee Glodowski | Embarq | Maggie Lee | | VeriSign |
| Jane Jackson | Evolving Systems | Jason Lee | | Verizon (phone) |
| Therese Mooney | Global Crossing (phone) | Gary Sacra | | Verizon |
| Dennis Robins | Integra Telecom (phone) | Earl Scott | | Verizon (phone) |
| Jennifer Pyn | Metro PCS (phone) | Deb Tucker | | Verizon Wireless |
| Jim Rooks | NeuStar |  | |  |
| Ed Barker | NeuStar |  | |  |
| Charles Ryburn | NeuStar |  | |  |
| Syed Saifullah | NeuStar |  | |  |

Attached are the Action Items assigned at the March, 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 “MARCH 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 if necessary |  |  |
| July | TBD | 10th-12th | NeuStar | Monterey, California |
| August | TBD | No meeting.  8/7/07 call if necessary |  |  |
| September | TBD | 11th-13th | Verizon Wireless | Franklin, Tennessee |
| October | TBD | No meeting.  10/9/07 call if necessary |  |  |
| November | TBD | 13th-15th | Sprint Nextel | Ft. Lauderdale, Florida |
| December | TBD | No meeting.  12/11/07 call if necessary |  |  |
|  |  |  |  |  |

* Continuing evaluation during 2007 will determine if interim conference calls are needed or if the decision to meet face-to-face every other month should be revisited.

01/07 Meeting Minutes Review:

* No changes were made to the Draft January 2007 LNPA WG minutes and they were accepted as Final.

02/07 Call Minutes Review:

* No changes were made to the Draft February 2007 LNPA WG minutes and they were accepted as Final.

OBF LSOP Committee Update

* No report was given at this meeting. Carol Frike, Sprint Nextel, has replaced Steve Moore and will provide LSOP readouts at future LNPA WG meetings.

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

* The Wireless Committee held an interim face-to-face meeting the week of January 22nd to work Issue 2847. This issue addresses the change from using a CORBA interface to an XML interface at the ICP level. The meetings were spent preparing the WICIS 4.0.0 documents for finalizing at OBF 97.
* During OBF 97, February 5-8, Issue 2847 was again the primary focus. Volumes I - III were placed in Initial Closure. Issue 3124 addresses Volume IV, a shared document with the other UOM committees. This issue was placed in Initial Closure during an interim conference call held 3/1/07.
* Discussion of Open Issues:
  + Issue 3062 - Remove Fax Support From WICIS - a separate Fax document contribution will be submitted by April 2, 2007 and then discussed at OBF 98.
  + Issue 3118 - WICIS Support of Wireline Jeopardy Responses - It will be most helpful for the committee to work this issue from a contribution. Neustar will supply a contribution for consideration at OBF #99 and other vendors were invited to submit contributions, as well.
  + New Issue 3138 - Update Valid Values for WICIS Release Number in WICIS Release 3.1.0 - It was noted that the valid value in WICIS 3.1.0 for WICIS\_REL\_NO is incorrect. This issue was resolved with the understanding that 3.1.0 is a valid value for this field and the document does not need to be republished.
* Intermodal Subcommittee meeting:
  + Issue 3065 - LSOP LSOG: Accelerated Port Process - The LSOP opened this issue in support of Issue 2943. REQTYPE CB is the focus of the issue and it may be possible to get the LSOG to require less than 25 data elements for intermodal porting as well as VoIP and wireline to wireline in a facilities-based environment. The 25 elements are a combination of elements from the customer and those that can be derived. The target resolution date for Issue 3065 is during OBF 98. Consideration is also being given to eliminating the need to pull a CSR to get information for a port.
  + Issue 3024 - LSOP LSOG: Data Element Audit - It is important to clarify the intent of this issue. The intent is to eliminate any fields currently contained within the LSOG that are not being used by any company. 119 occurrences of data elements were removed in addition to one practice. None of the fields removed as a result of this issue impact REQTYPE CB (Number Portability). The practice eliminated is the Loss Alert Transaction Notification that was typically sent out pre-service but prior to the actual port request. The separate Loss Notification Practice was **not** eliminated.
  + Issue 3029 - WIR: Wireless Documentation for Mapping Between WICIS and LSOG - The Wireless Committee is trying to gather as much information as possible regarding LSOG implementations so that they can determine if any assumptions can be made for intermodal porting. It is important to be aware of the elements required from the customer versus those that can be derived. Participants asked that the previously assigned action item related to obtaining data for the mapping matrix be resent with a new deadline of April 4th.
  + Issue 2943 - WIR: Minimal Data Exchange Number Portability Service Request - The Wireless Committee is holding open Issue 2943 pending the outcome of Issues 3065 and 3029.
* Next meeting: OBF 98 will take place April 30 - May 4, 2007 in Minneapolis, MN.

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

* INC Issue 497: NANC requested that INC investigate direct assignment of numbers to VoIP providers. INC went back and looked at the action item from NANC and it asked that INC also look at impacts and related work in ATIS and other industry standards groups. INC may issue a liaison to other industry groups.
* INC Issue 506 (Unusable 1K Blocks) addresses the LNPA WG’s request to make revisions to the TBPAG Appendix 2 block donation form in order to prompt providers to perform any necessary intra-SP ports on their contaminated TNs prior to block donation.

Issue 506 is in Initial Pending. Changes were made to the TBPAG guidelines and form. The issue is pending a PA Change Order.

* INC Issue 510 – Video Relay Service (VRS) Alternatives – This continues to be worked in INC. The Contribution Team is looking at 3 alternatives – ENUM, Direct DNS, and NPAC. The INC received several contributions at their January meeting. A draft report is under development. Interim calls are scheduled prior to the April INC meeting to further develop the draft report.
* INC Issue 515: Contamination level of abandoned blocks. Permission was sought and granted from the NAPM LLC for the PA to get reports from the NPAC.
* INC Issue 527 addresses blocks with effective dates earlier than the effective date of the NPA-NXX of the associated LRN. A footnote was placed on the Part 1A form for SPs to make sure the NPA-NXX of an LRN associated with a 1K block is effective in the network. The issue is in Initial Pending pending FCC approval of PA Change Order.
* INC Issue 532: Kinsale Mobile asked for dedicated assignment of an easily recognizable NPA for charity services. A portion of the call bill would be donated to charity. INC has asked a number of questions, e.g., are numbers portable, as well as billing-related questions.
* INC Issue 535: Block contamination information for block returns. Permission was sought and granted from the NAPM LLC for the PA to get reports from the NPAC.

NANC Future of Numbering (FoN) Working Group Update (Sue Tiffany, Sprint Nextel):

* Sue Tiffany, Sprint Nextel, provided an update of the NANC FoN Working Group.
* The FoN has developed a contribution form and process based on the LNPA WG’s PIM process. This was approved by NANC. The FoN group is now working on a number of contributions and is working on their report based on these contributions. One issue they are working on is market-based number assignments.

Wireless Testing Subcommittee (Mohamed Samater, T-Mobile and WTSC Co-Chair):

* Mohamed Samater, T-Mobile and WTSC Co-Chair, reported that the subcommittee is in the middle of updating the WICIS 3.1 test plan. A meeting is scheduled for later today (March 13th), with a call scheduled for next week. No dates for testing have been finalized yet.

Architecture Planning Team (APT) Readout (Jim Rooks, NeuStar):

* Jim Rooks, NeuStar, reported that the focus of the January APT meeting was development of the 10K TN end-to-end test and the measure of the time to provision the provider SCPs.

* The group will also investigate possibly revisiting the NFG forecast to ensure future projected porting and pooling volumes can be supported. Jim to check to see if forecast can be distributed. This will be further discussed at the March APT meeting later this week.
* There was also discussion of any business needs to transition from CMIP to XML/SOAP? It was suggested that since we are tunneling XML into CMIP, we should explore the future evolution of the interface. Service Providers are to discuss internally any drivers for moving from CMIP to XML/SOAP for the SOA and LSMS interfaces including the impact of increasing the size of messages.

An issue was raised regarding notifications generated from SPs in recovery and the impact to SPs. NeuStar will investigate the feasibility of a new notification prioritization scheme that could result in a lower priority for these recovery notifications.

PIM Discussion:

* PIM 32 - This PIM, submitted by Syniverse (formerly TSI), seeks to address issues related to the process for obtaining a Customer Service Record (CSR), which contains information necessary to complete a Local Service Request (LSR) for porting in a reseller number.



PIM 32 is now being worked through wireline providers’ Account Management processes. Syniverse has initiated this contact with the ILECs. Syniverse will continue to work through these channels.

See separate report of PIM 32 discussion later in these minutes.

PIM 32 will stay open.

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



PIM 42 is being worked through wireline companies’ Account Management process. It is also tracking awaiting the outcome of Issues 2943 and 3029 in the OBF. PIM 42 to stay open awaiting feedback from Change Control/Account Management efforts and outcome of OBF Issues 2943 and 3029.

* 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.



PIM 44 is tracking awaiting the outcome of Issues 2943 and 3029 in the OBF. See attached liaison letter from the OBF on Issue 2943.



* PIM 50 – This PIM, submitted by Syniverse, seeks to address instances where

wireline to wireless ports fail the automated process because they are from large accounts where the Customer Service Record (CSR) is too large to return on a CSR query.



Wireless Service Providers are working change control efforts for PIM 50 through their appropriate wireline Account Management teams.

At the November 2006 NANC meeting, NANC recommended that carriers should be following the OBF guidelines. The OBF LSOG guidelines have options for providing a CSR for a TN with or without directory, or the entire account with or without directory.

At the March meeting, the LNPA WG reached consensus to add to the Number Portability Best Practices document text stating that if wireline carriers sent only the information requested in the customer inquiry per the LSOG CSI guidelines, this error would be greatly reduced if not eliminated.

Regarding PIM 50, Gary Sacra, LNPA WG Co-Chair, will send the applicable PIM 50 text to Mohamed Samater, T-Mobile, for inclusion in the LNPA WG’s NP Best Practices document. Upon receipt of the applicable text from PIM 50 from Gary Sacra, LNPA WG Co-Chair, Mohamed Samater, T-Mobile, will incorporate the text as Item # 46 in the LNPA WG’s NP Best Practices document.

PIM 50 was closed at the March 2007 LNPA WG meeting.

* 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.

Three options were discussed at the March 2007 meeting:

1. decide to do a manual cleanup if/when we decide to implement 414,
2. do a manual cleanup and update manually ongoing,
3. do nothing and keep status quo.

Adam Newman, Telcordia, said that he might be able to provide some data from the TRA exception reporting that Telcordia performs. If we decide to move forward with a manual cleanup, we would have to request that the LLC request an SOW from NeuStar. This would require developing the relationship between OCNs and SPID as a first step. A provider stated that they do not feel this is cost-justified.

Service Providers are to determine if a manual cleanup of codes opened in the NPAC by the incorrect provider and ongoing maintenance of the OCN – SPID relationship is cost justified. This will be discussed at the May 2007 LNPA WG meeting.

* PIM 52 – This PIM, submitted by Sprint Nextel, seeks to address issues related to carriers receiving 1K blocks from the pool in which the Intra-Service Provider ports have not been completed by the donor provider prior to block donation to the pool.



The LNPA WG drafted the attached liaison to the INC requesting revisions to the TBPAG Appendix 2 block donation form suggesting questions to prompt the donating service provider to perform any necessary Intra-Service Provider ports, if applicable, and protect numbers in the block to be donated from further assignment by the donating provider. The INC accepted this issue (INC Issue 506).



As part of INC Issue 506, the INC made changes to the Thousands Block PA Guidelines and form. This issue is now awaiting implementation of FCC-approved PA Change Order 51.

* 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 interval is being addressed in the Pre-port Subcommittee. The subcommittee will propose minor changes to the flows and narrative. The next call is scheduled for 3/29.

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



Mubeen Saifullah, NeuStar Clearinghouse, reported that he introduced an issue in the OBF’s Wireless Committee to support jeopardies for possible implementation in WICIS Release 4.1.

* PIM 56 – This PIM, submitted by Sprint Nextel, seeks to address instances where LNP database updates are not always propagated by all providers down to their network element routing databases in a timely manner.



Action Item 0706-11: Regarding the attached PIM 56, Sue Tiffany, Sprint Nextel, will revise the PIM and provide text for the LNPA WG’s NP Best Practices document related to the suggested resolution to identify a step-by-step procedure for carriers to follow in order to resolve this issue.

Action Item 0706-11 remains open.

At the March 2007 LNPA WG meeting, Sue Tiffany, Sprint Nextel, presented the attached document outlining steps to be taken to resolve this issue.



It was stated that the NIIF had previously developed a detailed document for reporting and resolving LNP troubles among multiple carriers. LNPA Working Group Participants are to review the attached NIIF document and propose any revisions for a possible liaison to the NIIF. Sue Tiffany, Sprint Nextel, will review and compare the attached NIIF document with the attached draft Sprint Nextel contribution for PIM 56 for possible revision of the contribution.



* PIM 57 – This PIM, submitted by Cingular and Sprint Nextel, seeks to address porting issues that occur when a Reseller discontinues business and/or declares bankruptcy.



Cingular has developed a port authorization form that they are going back to get their resellers to sign so that if they go out of business, they can legally port the customers. The attached form was presented by Cingular at the March 2007 LNPA WG meeting.



Sprint Nextel has created a checklist to encourage their resellers not to abandon their customers and provide them with options. This checklist was presented by Sue Tiffany, Sprint Nextel, at the March 2007 LNPA WG meeting.



During the discussion, a provider raised the FCC’s Time Warner ruling and suggested that providers review that to see if it covers any wholesale customers, e.g., resellers, MVNOs, and not just VoIP providers. Discussion then ensued on the legal ramifications of contacting the customer to let them know that their service provider has gone out-of-business and that their service is going to be cut off by a date certain and that they have the option of going with the underlying network provider or port their number to another provider.

Service Providers are to review the attached contributions from Cingular (Authorization Form v1.doc) and Sprint Nextel (Revised Bankruptcy Checklist.doc) for discussion at the May 2007 LNPA WG meeting.

* PIM 58 – This PIM, submitted by BellSouth and Verizon, seeks to address instances where the LERG assignee of an NXX code has not opened a code to portability in NPAC, and either cannot be contacted to do so, or refuses to do so.



Ron Steen, at&t, walked through the new version of PIM 58 that now incorporates the step of providing regulatory authority to NeuStar to open up a code in NPAC on behalf of the codeholder if necessary. This revised text was accepted by the group.

Gary Sacra, LNPA WG Co-Chair, will:

1. Distribute the updated Version 3 of PIM 58 to the LNPA WG and upload to the LNPA WG’s PIM website.
2. Send the applicable text from PIM 58 v3 to Mohamed Samater for inclusion in the LNPA WG’s NP Best Practices document.

Upon receipt of the applicable text from PIM 58 v3 from Gary Sacra, LNPA WG Co-Chair, Mohamed Samater, T-Mobile, will incorporate the text as Item # 45 in the LNPA WG’s NP Best Practices document.

PIM 58 was closed at the March 2007 LNPA WG meeting.

* PIM 59 – This PIM, submitted by the NeuStar Clearinghouse Vendor, seeks to address issues related to the unlocking of the 911 database when numbers are ported to VoIP providers.



The applicable VoIP providers have been referred to Rick Jones, NENA liaison to the LNPA WG. The LNPA WG is awaiting results from those discussions before closing PIM 59.

* NEW PIM 60 – This PIM, submitted by Socket Telecom, requests that the LNPA WG provide an opinion on whether or not a customer, who is physically relocating to a different Rate Center, should be allowed to port their number.



Socket Telecom was present at the March LNPA WG meeting and provided the attached presentation.



Socket Telecom provides voice and data services. Socket wants to port a customer from another provider and add an FX component to the customer’s service. The customer is relocating to a different rate center but wants to keep their number associated with the old rate center. Service Providers are to review the documents internally and come prepared to discuss on the April 10th LNPA WG conference call.

SV Type for Pre-Paid Wireless (Jennifer Pyn, Metro PCS):

* Jennifer Pyn, Metro PCS, teed up the request that one of the SV Type designations currently reserved for future use be designated for ported and pooled SVs associated with Pre-Paid Wireless numbers. She stated that this could assist law enforcement by identifying pre-paid customers.
* It was stated that designating one of the SV Types as Pre-Paid Wireless could be implemented in the Sunday maintenance window. It would be optional for carriers to support this new SV Type in their local systems.
* There was no objection to designating SV Type 4 for Pre-Paid Wireless.

* NeuStar will send out a notification over the Cross-Regional distribution identifying when the NPAC will be updated to designate SV Type 4 for Pre-Paid Wireless SVs.

PIM 32 and 50 Discussion:

* The group discussed the attached PIM 32 and 50 report to NANC in light of the earlier decision to place the consensus resolution of PIM 50 in the LNPA WG’s NP Best Practices document.

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* Sue Tiffany, Sprint Nextel, will revise the report to remove the PIM 50 issue.

NOTE: This Action Item has been completed.

* Gary Sacra, LNPA WG Co-Chair, will distribute the revised NANC report with only PIM 32 to the LNPA WG distribution. This revised report will be included in the April NANC report.

SPID Migration Blackout Requests (Doug Babcock, Syniverse, and Jason Lee, Verizon):

* Syniverse requested that, for all regions except Canada, the July 8th maintenance window be extended to run from 10pm eastern on July 7th to noon eastern on Sunday, July 8th. In addition, Syniverse requested that a SPID migration blackout be designated for the maintenance window. Syniverse stated that NPAC does not need to be down for the extended period. Service Providers are to come to the April 10th LNPA WG conference call prepared to determine if they can support Syniverse’s request for an extended maintenance window from 10 pm Eastern on Saturday, July 7th, until 12 noon Eastern on Sunday, July 8th, and their request for a SPID migration blackout in all U.S. regions for the July 8th maintenance window. NPAC will not need to be down during the extended period, but service providers are requested to refrain from porting throughout the entire extended maintenance window.
* Verizon requested that a SPID migration blackout be designated for the July 22nd maintenance window. Service Providers are to come prepared to the April 10th LNPA WG conference call to determine if they can support Verizon’s request for a SPID migration blackout in all U.S. regions for the July 22nd maintenance window.
* NeuStar will send out a notification to the Cross-Regional distribution announcing any SPID migration blackout dates approved on the April 10th LNPA WG conference call.

Best Practices Update (Mohamed Samater, T-Mobile):

Action Item 0107-09: Using the attached 12-14-06 version of the LNPA WG Number Portability Best Practices document as a baseline, Mohamed Samater, T-Mobile, will revise the baseline document as follows and create a new version of the document. See related Action Item 0107-05.

1. Revise Item 43 in the attached 12-14-06 version to change the Major Topic column to read, “**Alternative** SPID field introduced in NANC 399.”
2. Extract Item 44 from the attached 12-20-06 version and insert in the new version.
3. Revise the 4th sentence of the Decisions/Recommendations of Item 44 to read, “Out of the 189,552 available blocks, 10,758 resulted in a discrepancy, which meant that the information entered by the Service Provider into PAS or the NPAC was incorrect, and in addition, out of the 10,758 discrepant blocks, 506 blocks appeared to be over 10% contaminated.

 

* Mohamed Samater, T-Mobile, presented the following version of the LNPA WG’s NP Best Practices document with revised Items 42, 43, and 44. The revisions were accepted and Action Item 0107-09 was closed.



* Mike Whaley, Qwest, described an issue where a Type 1 paging number was ported out by an end user. Qwest is attempting to get the number back. It was stated that the FCC excluded paging numbers from the LNP Order and the number should never have been ported by an end user of the paging company.

Readout of 10K Mass Modify Exercise (AI 0107-01, 12) – NeuStar:

 

* NeuStar presented the results of the 10K TN mass modify test performed in each of the 7 U.S. regions. NeuStar reported that all but one of the industry LSMSs performed flawlessly during the test. NeuStar contacted that LSMS owner and provided the results of their performance during the test. That LSMS owner then developed short and long term plans to address the performance issues. NeuStar has confirmed improvements already. Based on these results, NeuStar deemed the exercise a success.
* NeuStar then presented the results of the SCP update intervals measured during the exercise. NeuStar reported that, for the most part, SCP updates were virtually in real time. Participants affecting call routing for approximately 400 million active numbers reported SCP update intervals within seconds of the NPAC broadcasts. Participants affecting call routing for less than 20 million active numbers experienced troubles such as load-related issues and reported hours-long SCP update delays.

* The data response rate was about ½ of the LSMSs in each region, but data was provided by the providers that have the vast majority of ported numbers in each region.
* NeuStar is continuing to work with providers that had issues.
* The group agreed to let this exercise soak awhile to allow NeuStar to continue to work with the providers that had issues. We will discuss any future plans for another exercise at a later date.

Pre-Port Subcommittee (Sue Tiffany, Sprint Nextel):

* Sue Tiffany, Sprint Nextel, reported that the Pre-Port Subcommittee is continuing to work on proposals for revisions to the NANC LNP flows related to the pre-port (pre-FOC) interval. These will be presented to the full LNPA WG when the proposals are complete.

**WEDNESDAY 03/14/07**

Wednesday, 03/14/07, Attendance:

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| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Tina Plaisance | Alltel (phone) | Stephen Addicks | | NeuStar |
| Mark Lancaster | at&t | Marcel Champagne | | NeuStar |
| Cyd McInerney | at&t | Paul LaGattuta | | NeuStar |
| Ron Steen | BellSouth | Dave Garner | | NeuStar |
| Marian Hearn | Canadian Consortium | Mike Panis | | NeuStar |
| Teresa Patton | Cingular | Mike Whaley | | Qwest |
| Renee Dillon | Cingular | Michael Klappa | | Sprint Nextel (phone) |
| Adele Johnson | Cingular | Carol Frike | | Sprint Nextel |
| Nancy Sanders | Comcast | Rosemary Emmer | | Sprint Nextel |
| Chris Brown | Cox (phone) | Susan Tiffany | | Sprint Nextel |
| Vicki Goth | Embarq | Lavinia Rotaru | | Sprint Nextel |
| Kathee Glodowski | Embarq | Colleen Collard | | Tekelec (phone) |
| Jane Jackson | Evolving Systems | Adam Newman | | Telcordia |
| Mindi Patterson | NeuStar | Paula Jordan | | T-Mobile |
| Jim Rooks | NeuStar | Mohamed Samater | | T-Mobile |
| Ed Barker | NeuStar | Jason Lee | | Verizon (phone) |
| Charles Ryburn | NeuStar | Gary Sacra | | Verizon |
| Syed Saifullah | NeuStar | Earl Scott | | Verizon (phone) |
| Shannon Sevigny | NeuStar Pooling (phone) | Deb Tucker | | Verizon Wireless |
| John Nakamura | NeuStar |  | |  |

**MEETING MINUTES:**

Firm Order Confirmation (FOC) Contribution (Gary Sacra, Verizon):

 

* Gary Sacra, Verizon, presented the attached revised contribution addressing Verizon’s issue with some providers not returning an FOC within the required 24 hours, and the accompanying proposed supporting changes to the NANC LNP flows (refer to Figure 2 Step 9 and Figure 3 Step 3).
* There were no objections to accepting the revised contribution and the proposed flow changes. The group agreed that we will accumulate all accepted changes to the flows for subsequent presentation to NANC at a future date.
* Gary Sacra, LNPA WG Co-Chair, will send the applicable text to Mohamed Samater for inclusion in the LNPA WG’s NP Best Practices document. Upon receipt of the applicable text from Gary Sacra, LNPA WG Co-Chair, regarding the attached LNPA WG Position Paper addressing the requirement to return an FOC in response to a valid LSR within 24 hours, Mohamed Samater, T-Mobile, will incorporate the text as Item # 47 in the LNPA WG’s NP Best Practices document.
* This will be reported at the April NANC meeting.

February NANC Readout (Gary Sacra, LNPA WG Co-Chair):

Action Item 0107-04: Gary Sacra, LNPA WG Co-Chair, will revise the attached Position Paper to remove the specificity to VoIP providers and indicate that the underlying network provider is responsible for responding to an LSR. This will be discussed on the February LNPA WG conference call for submission to the NANC.



* Gary Sacra, LNPA WG Co-Chair, reported that the NANC, at their February 13th meeting, accepted the attached revised LNPA WG Position Paper on porting obligations of providers who utilize an underlying network provider for connectivity to the PSTN, e.g., Resellers, Type 1 Cellular, and interconnected VoIP providers. Wireline Competition Bureau Chief Tom Navin was present during the presentation of the Position Paper and spoke in favor of the LNPA WG’s position. He stated that the FCC was close to issuing an Order on the porting obligations of VoIP providers that was consistent with the LNPA WG’s Position Paper. Action Item 0107-04 was closed.
* Also at the February 13th NANC meeting, the NANC assigned an action item to the LNPA WG to develop a matrix of issues and their status that have been submitted to or resolved by the LNPA WG since May 2004. In addition, the matrix was to include all issues submitted to the Working Group that remain open. Any issues impacting intermodal porting should be highlighted. The group reviewed the attached draft matrix and accepted the template and the proposed approach to include all PIMs, NANC Change Orders, and Best Practices within the directed timeframe.



* Gary Sacra and Paula Jordan, LNPA WG Co-Chairs, will complete the matrix and include issues submitted to the LNPA WG as PIMs, NANC Change Orders, and NP Best Practices, and distribute to the LNPA WG in time for discussion on the April 10th conference call.
* Upon receipt of the completed LNPA WG Issues Matrix from Gary Sacra and

Paula Jordan, LNPA WG Co-Chairs, LNPA Working Group Participants will review the document and be prepared to discuss and finalize on the April 10th LNPA WG conference call.

Change Management Discussion (NeuStar):



* NANC 414 (related to PIM 51)
* If the industry source (NANPA) conflicts with the SP’s data, the industry source is considered golden and will be used for the NPAC edit. If the industry source is wrong, the SP must have the industry source corrected.
* The desirable frequency in days for which data will be refreshed from the NANPA source in order to pick up new codes was suggested to be one day.
* The Change Order must accommodate a change in OCN for an existing code. Any changes in NXX to OCN relationship in NANPA data will be updated daily in the NPAC NXX to OCN relationship table.
* NANC 417
* The following was added: *The record count information will be added to the end of the BDD files. It will start with a pound sign (#) followed by the number of data records in the file. For example, if there are twenty-two (22) LRN records in the file, the 23rd line would contain a pound sign, a space, and the number 22. The record count information will only be included in the BDD file if the Service Provider’s BDD Record Count Indicator is set to TRUE.*
* NANC 418
* The following was added: *The current proposal is to provide a separate post-migration report to the industry. This report would capture, by LRN, the quantity of SVs updated by the NPAC during the migration.*
* NANC 147 (Event ID Rollover Issue)
* NeuStar stated that we were likely going to rollover in two months in the SE region. Due to problems identified in the test bed, there was a database adjustment to defer the rollover in the SE.
* If the 32-bit number is treated as signed, the rollover would be to -2.14B and not to 0, otherwise it is a 31-bit number. If the 32-bit number is not treated as signed, the rollover would be to 0.
* There is a difference in interpretation of the GDMO. There are 8 places in the GDMO where this is discussed. If we rollover in a region to negative values and we cannot adjust for that, the industry will be impacted. WC region is currently estimated to rollover in 13 months. Audit IDs and Action IDs are impacted.
* The GDMO will be updated for clarification.
* NeuStar will coordinate and provide information to the Cross-Regional distribution on when this scenario can be tested again in the test bed in order for all local system vendors to test. This testing is planned for completion prior to the April 10th LNPA WG conference call.
* All Local System Vendors are to verify whether they need to make system changes as a result of the Event ID Rollover issue upon performing the testing. If they treat the ID as a signed number, they need to be able to handle negative numbers. This will be discussed on the April 10th LNPA WG conference call.
* An alternative to resolve this issue is to modify the NPAC to support an unsigned 31-bit number with range of 0 to 2.14B, which is the expected behavior by one LSMS vendor.
* NeuStar requested that any comments on the updated FRS and IIS documents (available on the NPAC website) should be sent to NeuStar.

2007 Meeting/Call Schedule:

* The April 10th conference call will be held from 10am eastern to 6pm eastern.
* The location of the September meeting will be Franklin, TN.
* The location of the July meeting will be Monterey, CA.

Discussion of Need for April Conference Call (All):

#### It was agreed to hold a call on April 10th from 10am to 6pm eastern. The bridge number is 888-412-7808 PIN 23272#

* The agenda will cover the following:
  + Review and Finalization of LNPA WG Issues Matrix (Action Items 0307-07 and 0307-14)
  + Discussion of PIM 60 (Action Item 0307-18)
  + July Extended Maintenance Window/SPID Migration Blackout Requests (Action Items 0307-02, 0307-19, and 0307-20)
  + Version ID Rollover Issue and Test Results (Action Items 0307-03 and 0307-15)

Development of April NANC Report (Gary Sacra / Paula Jordan – LNPA WG Co-Chairs):

* The April 2007 LNPA WG Report to NANC will include:
  + LNPA WG Issues Matrix
  + LNPA WG FOC Position Paper
  + PIM 32 Report

Review of January 2007 LNPA WG Action Items:



**January 2007 LNPA WG Action Items:**

* Item 0107-01: This item has been completed and is Closed.
* Item 0107-02: This item has been completed and is Closed.
* Item 0107-03: This item has been completed and is Closed.
* Item 0107-04: This item has been completed and is Closed.
* Item 0107-05: This item has been completed and is Closed.
* Item 0107-06: This item has been completed and is Closed.
* Item 0107-07: This item has been completed and is Closed.
* Item 0107-08: This item has been completed and is Closed.
* Item 0107-09: This item has been completed and is Closed.
* Item 0107-10: This item has been completed and is Closed.
* Item 0107-11: This item has been completed and is Closed.

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

* Item 0605-22: This item remains Open.
* Item 0706-06: This item remains Open.
* Item 0706-11: This item remains Open.
* Item 0906-12: This item remains Open.
* Item 0906-14: This item remains Open.

Review of February 2007 Action Items:



**February 2007 LNPA WG Action Items:**

* Item 0207-01: This item has been completed and is Closed.

Unfinished/New Business:

* Jason Lee, Verizon, advised that there is an upcoming NPA split in the fall. NeuStar will be holding meetings with involved carriers.

PIM 32 Report Review:

* The group reviewed and approved the attached revised PIM 32 Report submitted by Sue Tiffany, Sprint Nextel. Gary Sacra, LNPA WG Co-Chair will accept the revisions and include the report in the April NANC report.



**THURSDAY 03/15/07**

**ARCHITECTURE PLANNING TEAM (APT) MEETING**

Thursday, 03/15/07, Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Richard Cahill | at&t (phone) | Stephen Addicks | | NeuStar |
| Mark Lancaster | at&t (phone) | Paul LaGattuta | | NeuStar |
| Cyd McInerney | at&t | Mike Panis | | NeuStar |
| Ron Steen | BellSouth | Mike Whaley | | Qwest |
| Marian Hearn | Canadian Consortium (phone) | Susan Tiffany | | Sprint Nextel |
| Teresa Patton | Cingular | Lavinia Rotaru | | Sprint Nextel |
| Renee Dillon | Cingular | Colleen Collard | | Tekelec (phone) |
| Vicki Goth | Embarq | Adam Newman | | Telcordia |
| Kathee Glodowski | Embarq | Jason Kempson | | Telcordia (phone) |
| Jane Jackson | Evolving Systems | Pat White | | Telcordia (phone) |
| Jim Rooks | NeuStar | Mohamed Samater | | T-Mobile |
| Ed Barker | NeuStar | Jason Lee | | Verizon (phone) |
| Charles Ryburn | NeuStar | Gary Sacra | | Verizon |
| Syed Saifullah | NeuStar | Earl Scott | | Verizon (phone) |
| John Nakamura | NeuStar | Deb Tucker | | Verizon Wireless |

**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.

10K Production Test Exercise (Next Steps) (All):

* The group agreed to let this concluded test soak for a period of time, possibly 6 months, and possibly run another test at a later date to test around the requirement of approximately 14,700 TNs in an hour.
* The group was reminded that there is an open request to support a rate of 25K in an hour (NANC Change Order 397). It was stated that we may be pushing the limit of a T1 in order to go to 25K TNs.
* Providers that had issues with the 10K test are taking steps to address the issues.

Discussion of Revised NFG Forecast (Action Item 0107-14) (All):

Action Item 0107-14: Gary Sacra, LNPA WG Co-Chair, will place a review of the latest NFG forecast on the agenda for the March APT meeting.

* Jim Rooks, NeuStar, teed up the discussion by describing how we arrived at the current interface throughput requirements by using the NFG forecast and identifying the Busy Season and Busy Hour and the projected throughput requirements in that identified Busy Hour.
* Options were then discussed to determine how we will do ongoing capacity planning.
  + Option 1: Identify the current Busy Hour and the mix of messages and comparing to previous Busy Hour requirements. NeuStar has historical data that could be used.
  + Option 2: Going directly to supporting 25K TNs in an hour per the outstanding NANC 397 request.
    - This request is to support 100K in a 4 hour period to allow time during the night to back out if necessary. This would require approximately 6 messages per second over the LSMS interface.
  + It was stated that we must put a process in place to monitor traffic in order to trigger timely relief.
  + Regarding NANC Change Order 397, NeuStar will identify LSMS and SOA throughput requirements to support 25K TNs per hour. The assumption will be that these would be singles, i.e., one message is equal to one TN.
* Action Item 0107-14 is closed.

Discussion of Notification Prioritization (Action Item 0107-13) (All):

Action Item 0107-13: At the January APT meeting, a participant described an issue involving mass updates or large ports while one or more LSMSs are down. This results in a significant increase in SOA notifications. When these LSMSs enter recovery, a large backlog of SOA notifications ensues. NeuStar will investigate the feasibility of a new notification prioritization scheme that could result in a lower priority for these recovery notifications.

* Jim Rooks, NeuStar, started by describing the action item from the last APT meeting – to separate out the priorities of notifications. The current system does not do this, so we would have to develop a Change Order for this functionality. The issue that occurs is when an SP is down, they miss downloads, then come back up in recovery. This creates a bunch of notifications to the activating SOA. The expressed desire is to prioritize these “extra” notifications to a lower priority, so that they do not adversely impact the SOA.
* NeuStar will work with Cingular to develop a NANC Change Order for presentation to the LNPA WG’s APT.
* Action Item 0107-13 is closed.

Discussion of Any Need for New Interface (Action Item 0107-15) (All):

Action Item 0107-15: Service Providers are to discuss internally any drivers for moving from CMIP to XML/SOAP for the SOA and LSMS interfaces including the impact of increasing the size of messages.

* It was stated that XML/SOAP is actually a larger message size than CMIP and would require more bandwidth over the interface.
* A local system vendor stated that we need to identify the trigger to migrate to XML long term. The cost to support CMIP due to dwindling support and development expertise could rise.
* WICIS is moving from CORBA to XML in 2008. The messaging was redefined and optimized to optimize bandwidth requirements.
* NANC 372 addresses a new interface. This will be on the agenda for the May APT meeting. NANC 372 proposes investigating the feasibility of other interfaces in addition to CMIP.
* It was asked if there is another protocol other than XML/SOAP that would not have the bandwidth baggage. NeuStar responded that something that is non-text would be more efficient.
* APT Participants are to review NANC Change Order 372, which proposes investigating additional alternatives to the CMIP protocol, and come prepared to discuss at the May 2007 APT meeting.
* Action 0107-15 is closed.

SPID Migration-like Activates/Modifies (Action Item 0107-16) (All):

Action Item 0107-16: For discussion at the March APT meeting, Service Providers are to bring in any activate or modify scenarios that could be supported by a SPID migration-like capability in order to reduce traffic over the interface.

* Synchronization of the network and ensuring that all providers update at the same time is an issue that was mentioned related to this request. Experience with NPA splits was cited as an example.
* Issues could arise if the NPAC is updated and the batch data is distributed to the providers, then someone kicks off an audit on some of these TNs, and the NPAC finds discrepancies and then kicks off downloads. Another issue mentioned was if one of the records is updated over the interface before the batch is applied. When the batch is applied the provider then has incorrect data.
* APT Participants are to review NANC Change Order 349, which proposes investigating a batch processing alternative to generating all messages associated with large porting activity and sending them across the interface, and come prepared to discuss at the May 2007 APT meeting.
* A provider stated that they do not perform any transactions that are not time-sensitive but supports investigating this issue.
* The Alternative SPID Field was cited as an example of a change that is not time-sensitive because it does not affect routing of calls or TCAP messages.

Review of January 2007 APT Action Items:



**January 2007 APT Action Items:**

* Item 0107-12: This item has been completed and is Closed.
* Item 0107-13: This item has been completed and is Closed.
* Item 0107-14: This item has been completed and is Closed.
* Item 0107-15: This item has been completed and is Closed.
* Item 0107-16: This item has been completed and is Closed.

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

* Item 1106-14: This item has been completed and is Closed.

May APT Meeting Agenda:

* Next APT agenda for May 2007 meeting:
* NANC 349
* NANC 372
* Capacity Planning (NANC 397)
* Notification prioritization Change Order

***Next LNPA WG Conference Call … April 10, 2007, 10am – 6pm Eastern,***

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

***Next LNPA WG Meeting …******May 8-10, 2007, Banff, Canada – Hosted by***

***Canadian Consortium***