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| AT&T  | Atlanta, Georgia | Host: AT&T |

Wednesday, June 12, 2002 – 8:30 AM – 5:00 PM

Attendance:

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| **Name** | **Company** | **Name** | **Company** |
| H.L. Gowda  | AT&T | Barry Bishop | NeuStar (phone) |
| Paul LaGattuta | AT&T | Rosemary Emmer | Nextel (phone) |
| Lonnie Keck | ATTWS (phone) | Cheryl Haynes | NUVOX |
| Ron Steen | BellSouth  | Dave Garner  | Qwest (phone) |
| Dave Cochran | BellSouth  | Charles Ryburn | SBC |
| Marian Hearn | Canadian LLC | Leah Luper | SBC  |
| James Grasser | Cingular Wireless | Jeff Adrian | Sprint |
| Monica Dahmen | Cox Communications | Kathleen Tedrick | Sprint (phone)  |
| Ron Stutheit | ESI | Colleen Collard | Tekelec  |
| Maggie Lee | VeriSign | John P. Malyar  | Telcordia Technologies |
| Rick Jones | NENA | Jean Anthony | Telecom Software  |
| Gene Johnston | NeuStar | Lisa Marie Maxson | Telecom Software (phone) |
| Jim Rooks | NeuStar | Charlotte Holden | US Cellular |
| John Nakamura | NeuStar | Gary Sacra | Verizon |
| Larry Vagnoni | NeuStar | Jason Lee | WorldCom  |
| Marcel Champagne | NeuStar | Steve Addicks | WorldCom |
| Rob Coffman | NeuStar |  |  |

**Review of Previous Month’s Minutes:**

The team reviewed the May minutes. The following changes were made:

* On page 2, in the 3rd bullet, strike the 3rd sentence (“It was revealed that NPAC can only send as fast as the slowest downstream LSMS can accept.).
* On page 2, under WNPO Subcommittee Report, 1st bullet for Migration of Type 1 Cellular, change 2nd sentence (“Attached is the current proposal submitted by Bell South.”), to read, “Attached is the current proposal submitted by the WNPO.”

A final copy of the May minutes will be distributed with the June draft minutes.

**Subcommittee Reports:**

Wireless Number Portability Operations Team WNPO:

* Cause Code 26 – Steve Addicks, MCI/WorldCom, discussed a contribution to make Cause Code 26 an optional functionality in the wireless network. Cingular’s representative suggested that CC26 is not a mandatory requirement in TR45. Jim Grasser stated that the WNPO will verify this. If it is not mandatory, Steve will withdraw the contribution.
* Wireless Reseller Flows – The Wireless Reseller Flows are still being modified in the WNPO. The plan is to complete them and submit them to the LNPA prior to the July meeting.
* Wireless NXX Code Openings to Portability – The schedule for marking wireless NXX codes as portable in the LERG (attached) will be revised to add porting NPAs. The new schedule will be sent out during the week of 6/17. These NPAs will become Groups 8, 9, and 10.



* The Wireless Testing Subcommittee reported that 11 Service Providers have acknowledged at least 1 test date in 18 MSAs (10 wireless and 1 wireline).
* Two wireline providers have provided test numbers to date.
* LSOG support – The WNPO is recommending that providers support at least LSOG 5.
* NeuStar reported that 5 providers and 1 Service Bureau have completed NPAC testing. Ten providers have requested testing dates. Thirty providers have signed Non-Disclosure Agreements (NDAs).
* Jacki Daniel agreed to develop a draft Trouble Log to capture issues and their resolution in order to facilitate trouble-shooting. The log will be posted on the WNPO website.
* NeuStar proposed providing a database for storing MDNs and MINs. It would primarily be used by PSAPs and accessed via an IVR to check a 10-digit number. Both MDN and MIN contact info where available (SPID/company name and contact number) would be returned for the 10-digit number, but no mapping between MDN and MIN would be provided MIN to TN association was discussed as a phase II. This has been referred to NENA for possible action.

Type 1 Cellular Number Migration:

* On behalf of the WNPO, Ron Steen and Jim Grasser presented the proposal for Type 1 Cellular Number Migration to the LNPA. This proposal centers on porting Type 1 cellular numbers, which are actually LERG-assigned to a wireline carrier, to the applicable wireless carrier on a managed project basis. The LNPA approved the proposal and will send a liaison to the INC in issue format requesting modification of INC Guidelines in support of this process. This will be reported to NANC at the July meeting. Attached is the current proposal submitted by the WNPO.



**Problem / Issues Management (PIMs):**

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* PIM 1 – No change. This PIM is CLOSED and the LNPA is awaiting the wireless reseller flows before modifying with wireline reseller flows. The wireless flows are expected by the July LNPA meeting.
* PIM 5 – Still in Legal review with LLC and NeuStar attorneys.
* PIM 6 – NENA has developed a standard that will enable the new service provider to migrate a customer record into the 911 database without it first being unlocked by the old service provider when numbers are ported. The LNPA approved this standard at the June meeting. NENA will work with member service providers to implement the standard. This PIM is now CLOSED.

 

* PIMs 14 and 15 – The group held another discussion with the NeuStar Pool Administrator, Barry Bishop, on why NeuStar was requiring the new LERG-assignee to take all 10 pooled blocks when the code is transferred to them, even when that provider is not requesting all 10 blocks. Some service providers contend that this practice is an unnecessary requirement resulting in additional cost to the industry in download transactions. Barry stated that the guidelines in the LNP CO Code Transfer Process require the PA to allocate all 10 thousands blocks to the new LERG-assignee. Barry agreed to take the following ACTION ITEM:
* Barry will modify the LNP CO Code Transfer Process guidelines to allow service provider choice on the number of 1K blocks they will accept.
* Barry will then bring the modified guidelines to the LNPA for review and approval.
* Upon LNPA approval, Barry will send a liaison to the INC (in issue format) advising of the change made within the LNPA and ask INC to check their applicable guidelines for any changes for consistency.

NOTE: If INC guideline changes are required that affect the PA or NANPA, then an FCC Change Order will likely be required, which could push resolution out to 1Q03. NANC 323 could be available by then, making this process and requested change moot.

* PIM 17 – Although this PIM is CLOSED, discussion took place on NANC 356, which is a short-term solution to identifying all carriers as either wireless or wireline. With NANC 356, all carriers will be identified in the ServiceProvName field as wireline (identified via /1) or wireless (identified via /2). This will be broadcasted to all service providers. M&Ps are due to the NAPM/LLC from NeuStar by the next LLC meeting.
* PIM 18 – No change. The WNPO will prepare the wireless reseller flows, reflecting Option B, for submission to the LNPA. These are expected by the July LNPA meeting.
* NEW PIM 19 - **Individual intra and inter-service provider ported records with same LRN as pooled block record:**

This PIM addresses instances where individual ported records have been created for numbers within a pooled 1K block, however, the LRN associated with the individual records is the same as the LRN associated with the 1K block. This dilutes the advantages of Efficient Data Representation (EDR). The PIM’s submitter, SBC, will provide additional data to NeuStar for further investigation as to why this is occurring. NeuStar is awaiting data from SBC.

**Turn-up Testing Requirements:**

### The group reviewed the Requirements for Interoperability Testing (attached), provided by NeuStar, in order to serve as a framework for developing requirements for turn-up testing. Some doubts were raised related to the enforceability of such requirements. Rob Coffman, NeuStar, agreed to take an ACTION ITEM to draft requirements for turn-up testing that will include the 5 scenarios from the interoperability testing requirements. Rob will submit the draft to the LNPA for review and approval. The intent of this discussion is to provide expanded text for use in the Continued Certification Testing requirements (SOW 24) to deal with Recovery and other concerns (using production-sized databases, for example). The enhanced Turn-Up testing, developed in connection with release 3.2 will be LNPA-WG’s opportunity to enforce adequate recovery, etc. through improved test cases.



Thursday, June 13, 2002 8:30 – 5:00pm

Attendance:

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| **Name** | **Company** | **Name** | **Company** |
| H.L. Gowda  | AT&T | Barry Bishop | NeuStar (phone) |
| Paul LaGattuta | AT&T | Rosemary Emmer | Nextel (phone) |
| Lonnie Keck | ATTWS (phone) | Rob Coffman | NeuStar |
| Sean Hawkins | ATTWS (phone) | Cheryl Haynes | NUVOX |
| Ron Steen | BellSouth  | Dave Garner  | Qwest (phone) |
| Dave Cochran | BellSouth  | Charles Ryburn | SBC |
| Marian Hearn | Canadian LLC | Leah Luper | SBC  |
| James Grasser | Cingular Wireless | Jeff Adrian | Sprint |
| Monica Dahmen | Cox Communications | Kathleen Tedrick | Sprint (phone)  |
| Ron Stutheit | ESI | Colleen Collard | Tekelec  |
| Maggie Lee | VeriSign | John P. Malyar  | Telcordia Technologies |
| Rick Jones | NENA | Jean Anthony | Telecom Software  |
| Gene Johnston | NeuStar | Lisa Marie Maxson | Telecom Software (phone) |
| Jim Rooks | NeuStar | Charlotte Holden | US Cellular |
| John Nakamura | NeuStar | Gary Sacra | Verizon |
| Larry Vagnoni | NeuStar | Jason Lee | WorldCom  |
| Marcel Champagne | NeuStar | Steve Addicks | WorldCom |

**Change Management:**

Change Management Administration:

* Charles Ryburn provided a readout of the May NANC decision on the CMA issue. Selected NANC members are drafting a letter to the FCC recommending that NeuStar can bring the CMA function in-house. The letter is currently circulating among the NANC members for review.

**NPAC Release 3.1 Stability:**

* LSMS Recovery

NeuStar stated that problems with recovery persist even after limiting range activities to 1K TNs. In the Mid-Atlantic Region, a provider attempting LSMS recovery couldn’t handle the size of the PDU, and kept aborting and requesting the same time range for every recovery attempt. This began a cycle of aborts and recovery attempts, each time generating notifications for each TN. This resulted in about 300K notifications to queue up for Verizon’s SOA and flooded NPAC with numerous recovery attempts. Jim Rooks, NeuStar, suggested that NPAC may have to stop servicing a providers recovery requests if the provider requests the same time range twice.

Path Forward

Ron Stutheit, ESI, suggested that NPAC send back “Criteria Too Large” when an LSMS or SOA requests the same recovery time frame twice. This will cause an LSMS or SOA to reduce the time window on the next recovery request. Jim Rooks, NeuStar, will investigate feasibility and report back at the July LNPA. NeuStar and local system vendors will pursue recreating this problem in test to identify root cause of why some production systems cannot accept some PDUs with fewer TNs than what they tested. Rob Coffman, NeuStar, will coordinate this testing. He will provide a status report via e-mail on 6/28.

NeuStar will send out a notice to the X-Regional distribution explaining the problem and advising service providers that if they appear to be in recovery for extended period of time, stop if they can and contact NPAC.

* Service Provider Maintenance Window

PIM 2 documents the industry agreements for a cooperative maintenance window. The LNPA agreed to expand the PIM’s definition of prohibited porting activity to include all CREATEs, SV and Block Activates, Modifies, and Disconnects. The goal here is to eliminate as much activity as possible that generates any SOA or LSMS messages during the maintenance window so service providers do not have any messages to recover when they come back on-line at the end of the window. NeuStar will notify the industry of this change at the next X-Regional meeting and send out an e-mail to the distribution lists. The LNPA WG agreed to revise PIM 2 to capture new porting definitions and revised maintenance windows.

Charles Ryburn will send a request to Jim Grasser, WNPO Chair, asking that the WNPO provide their definition of “porting activity” in relationship to the maintenance window.

The LNPA agreed to modify the Service Provider Maintenance Window document to capture the adjusted window timeframes and additional porting activity definitions.

* Bulk Data Downloads (BDDs)

Dave Cochran, BellSouth, questioned the viability of BDDs as a recovery mechanism. He stated that some BDDs were so large and they take so long to roll in, when they complete, they need another BDD to catch up. Jim Rooks, NeuStar, said the shear size of the database (700 MB zipped) is a major strain on NPAC. Jim stated that NANC Change Order 169, which will provide for a delta BDD, will help this issue. Dave suggested that we include this as an issue for the long term interface solution.

* NPAC Database Lockups

At the request of Verizon, NeuStar described an issue that has occurred a number of times in the Northeast Region, whereby long-running database transactions requested by a service provider (e.g. queries) have locked up the NPAC database and halted operations for other providers. Jim Rooks, NeuStar, said that NPAC has identified certain transaction requests as inefficient and directs them to a single SMS engine for processing, thus not tying up the other SMS engines. Jim said there is a NANC Change Order (yet to be numbered) that will further define additional transactions as inefficient.

**New Business:**

* At the request of the LNPA Working Group, NeuStar will document and publish the process for bringing service providers back on-line after an NPAC outage.

**Next Meeting:**

Future meetings have been shifted forward one half day, to full days on Wednesdays and Thursdays, in order to accommodate the WNPO committee's need for additional meeting time.

The next LNPA-WG meeting will be held at Chicago, IL. July 10-11.

**Meeting Schedule:**

**2002 Meeting Schedule:**

LNPA WG: Host:

July 9 - 11 US Cellular - Chicago

August 13 - 15 Canadian Consortium, Vancouver, British Columbia,Canada

September 17 - 19 Verizon, Baltimore, MD

October 15 - 17 ESI, Denver, CO

November 12 - 14 Cox Communications- Atlanta

December 10 - 12 Nextel Partners – Las Vegas