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| AT&T Wireless | Redmond, Washington | Host: AT&T Wireless |

Wednesday, May 15, 2002 – 8:30 AM – 5:00 PM

Attendance:

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| **Name** | **Company** | **Name** | **Company** | | |
| H.L. Gowda | AT&T | Rick Jones | | NENA |
| Paul LaGattuta | AT&T | Gene Johnston | | NeuStar |
| Beth Watkins | AT&T (phone) | Jim Rooks | | NeuStar |
| Anne Cummins | ATTWS | John Nakamura | | NeuStar |
| Lonnie Keck | ATTWS (phone) | Larry Vagnoni | | NeuStar |
| Ron Steen | BellSouth | Marcel Champagne | | NeuStar |
| Dave Cochran | BellSouth (phone) | Barry Bishop | | NeuStar (phone) |
| Marian Hearn | Canadian LLC | Rosemary Emmer | | Nextel |
| James Grasser | Cingular Wireless | Dave Garner | | Qwest (phone) |
| Monica Dahman | Cox Communications | Charles Ryburn | | SBC |
| Dennis Robbins | ELI (phone) | Donna McLaughlin | | SBC (phone) |
| Ron Stutheit | ESI | Jeff Adrian | | Sprint |
| Threse Mooney | Global Crossing (phone) | Kathleen Tedrick | | Sprint (phone) |
| Maggie Lee | Illuminet | Colleen Collard | | Tekelec |
| Jan Dempsey | Illuminet | John P. Malyar | | Telcordia Technologies |
| Cristy Taylor | Intrado | Adam Newman | | Telcordia Technologies (phone) |
| Mitch Kaufman | NCS Pearson | Adam Newman | | Telcordia Technologies (phone) |
| Rick Jones | NENA | Jean Anthony | | Telecom Software |
| Gene Johnston | NeuStar | Lisa Marie Maxson | | Telecom Software |
| 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 |

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

* A discussion took place during the review of the April minutes with regard to the new request limitations during recovery attempts. It was clarified that for an LSMS recovery attempt, a TN-based request has a maximum of 2,000 TNs. For a time-based request, the maximum is 1 hour or 2,000 TNs, whichever is less. For SOA recovery attempts, the maximum is 2,000 notifications.
* NANC Change Order 285 was changed to Bucket 3 (Delete Pending).

Projected Industry Load Discussion:

* Ron Stutheit, ESI, led the LNPA in a discussion of the May 2nd conference call for the purpose of determining what data is necessary in order to project industry porting loads. Attached is the agenda and minutes to that 5/2 call.

 

* Jim Rooks, NeuStar, stated that the data proposed in the attached minutes can be collected, however, a Statement of Work (SOW) will likely be required. Jim suggested the following changes in the proposed data to be collected and proposed data report, which were accepted by the group:
* Item 2f in the “What Data to Collect” section to be aggregated,
* In the “How to Report the Data” section on page 2, delete “Average Message Length” and “Time When Abort Occurred” as categories.
* Ron Stutheit asked for confirmation from the group that the focus of the 5/2 call was to address what the projected NPAC offered load is, not the projected industry offered load. This led to a discussion of NPAC then being assumed as a choke point under this scenario. It was then suggested that the switch traffic engineering approach could possibly serve as a model for projecting industry porting load. That model projects traffic load offered by the switch’s end users to ensure that sufficient capacity is sized and timed. Using this model as an analogy, it was suggested that we should perhaps being looking at the offered load over the SOA interface to determine and project the industry porting load.

**ACTION ITEM: NeuStar will summarize the essence of the Vendor Metrics meeting minutes into the form of a NANC Change Order and report at the June meeting.**

**Recovery Issue Update:**

* NeuStar reported that the limit of 2,000 TNs in time-based recovery request seems to have addressed about 95% of the problem.

**Subcommittee Reports:**

Wireless Number Portability Operations Team WNPO:

* Migration of Type 1 Cellular numbers will be discussed at the June LNPA. Attached is the current proposal submitted by the WNPO.

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* NeuStar reported that 7 new Non-Disclosure Agreements (NDAs) had been signed by wireless service providers. Four providers and 1 Service Bureau have completed NPAC testing, two additional providers and a Service Bureau have planned testing with NPAC.
* Jim Grasser posed the following questions to service providers related to wireless-wireline inter-carrier communications:
* Would Service Providers be willing to discuss the LSR fields in an open forum rather than requiring the discussion to take place one-on-one during Interconnect Agreement negotiations?
* On 11/24/02, what is the highest version of LSOG you will support?

The goal is to discuss LSR needs one time among multiple service providers, rather

than many times one-on-one. Jim Grasser will work with the WNPO to put together

a list of data elements wireless cannot put on the LSR.

* The wireless industry has requested all providers to provide test numbers – one ported and one non-ported – in each of the top 100 MSAs. These should be sent to Jim Grasser by the first week of June so he can put together a list. The numbers should terminate to an announcement so call completion can be verified.

**Change Management Administration (CMA) Issue**:

* Charles Ryburn read the NeuStar letter responding to questions posed by the LNPA with regard to the CMA issue. Concerns were raised regarding NeuStar’s answers related to document ownership, which implied a license was required to use the documentation. H. L. Gowda asked if there were any objections in the group that the LNPA had the understanding that the NPAC and interface documents were owned by the industry and not owned by a single entity. Only NeuStar objected at the time. Initially, the LNPA decided to refer these concerns to the LLC and NeuStar attorneys, however, NeuStar revised their answers (see attached revised letter).



TSE also raised an objection to NeuStar’s answer to Question No. 4, which states

that Perot had concerns over TSE’s neutrality.

* This issue was placed on the agenda for the May NANC meeting.
* The following is NeuStar’s response to last month’s action item relating to the list of documents relating to the CMA Issue:

<<NPACDocuments.doc>>

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| Document Name | Location on NPAC public website: www.npac.com | Comments |
| NANC Functional Requirements Specification Rel 3.1.0, Version 1.1 | Documents; NANC Release 3.1 Public NPAC SMS Documents |  |
| NPAC SMS Interoperable Interface Specification, NANC Version 3.1.0; Part 1 of 1; Part 2 of 2 | Documents; NANC Release 3.1 Public NPAC SMS Documents |  |
| Guidelines for the Definition of Managed Objects; based on NANC National Number Pooling Requirements and IIS Flows | Documents; NANC Release 3.1 Public NPAC SMS Documents | Final GDMO for NPAC SMS Release 3.1.0 based upon IIS v3.1.0; Updated with the following changes orders: NANC 179, NANC240, NANC 294, NANC 325, and NANC 329. |
| Abstract Syntax Notation 1; based on NANC National Number Pooling Requirements and IIS Flows | Documents; NANC Release 3.1 Public NPAC SMS Documents | Final ASN.1 for NPAC SMS Release v3.1.0 based upon IIS NANC v3.1.0; Updated to include change order NANC 179; NANC 240, and NANC 305. |
| NPAC SMS Interoperability Test Plan; Release 3.1.0; version 1.2 | Documents; NANC Release 3.1 Public NPAC SMS Documents | Support NANC IIS version 3.1.0 |
| NPAC Release 3.1 Performance and Volume Test Plan | Documents; NANC Release 3.1 Public NPAC SMS Documents |  |
| NPAC SMS Release 3.1.0 Turn Up Test Plan; version 1.2; November 20, 2001 | Documents; NANC Release 3.1 Public NPAC SMS Documents |  |
| NPAC SMS/Service Provider Certification and Regression Test Plan | Documents; NANC Release 3.0 Public NPAC SMS Documents | For New Entrants Certification and Existing Service Providers/Vendors Regression Testing up to and including NPAC Release 3.0;  NPAC Release 3.0 Individual Functional and Regression Test Cases;  NPAC Release 3.0 Group Functional and Regression Test Cases |

**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.
* PIM 5 – Still in Legal review with LLC and NeuStar attorneys.
* PIM 6 – NENA representative Rick Jones reported that NENA has developed a standard that will enable the new service provider to migrate the 911 database without it first being unlocked by the old service provider when numbers are ported. This new standard has been approved by the NENA Executive Board. The LNPA will vote whether to endorse this standard at the June meeting.



* PIM 11 – Methods and procedures for NPAC’s involvement in this process have been completed by the LNPA and approved. This PIM is CLOSED.



* PIMs 14 and 15 – The group held a discussion with the NeuStar Pool Administrator, Barry Bishop, on why NeuStar was apparently 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. This would seem an unnecessary requirement resulting in additional cost to the industry in download transactions. Barry took an ACTION ITEM to determine what changes, if any, are necessary to prevent the need for the new LERG-assignee to take all 10 blocks.

The LNPA’s liaison letter to the INC with comments on their revised CO Code Assignment Guidelines (Appendix C) and Thousands Block Pooling Guidelines (Appendix 7), which address PIMs 14 and 15, is currently under review at INC. The INC has posted an interim process on their website.

* PIM 16 – Adam Newman, Telcordia TRA and CIGRR liaison, reported the issue has been resolved in the Common Interest Group on Rating and Routing (CIGRR Issue No. C083). A soft edit in the LERG will produce a message requesting if the user has verified that the NXX code is not opened in NPAC before changing the portability indicator. This will NOT restrict change capability to the TRA only. This PIM is CLOSED.
* PIM 17 – The following now appears on the npac.com wireless website home page, “On August/2001, the Wireless Number Portability Operations subcommittee (WNPO) has recommended that Wireless Service Providers subscribing for a connection to the NPAC use a different Service Provider ID (SPID) than their counterpart wireline entity side of the company. This recommendation is to allow the wireline and wireless entities in a company to use different sets of Business Days and NPAC timers in their profiles if necessary.” This recommendation is also part of the NPAC Methods and Procedures for establishing a SPID. This PIM is CLOSED.
* PIM 18 – No change. The WNPO wireless members voted in favor of Option B for wireless reseller flows. Option B requires the underlying network provider to coordinate the port. This was the same option that the wireline service providers approved by consensus. The WNPO will prepare the wireless reseller flows, reflecting Option B, for submission to the LNPA.
* 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.

Thursday, May 16, 2002 8:30 – 5:00pm

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**Change Management:**

* NeuStar presented an NPAC Release 3.2 Change Order package which they stated could be delivered to the service providers for testing approximately 6 months after approval of the Statement of Work (SOW) (estimated to be in the December/January timeframe). The Change Orders proposed in this package were culled from the current approved pool and comprise those that have higher priorities for the industry. The LNPA accepted the proposed package after a minor change and NeuStar plans to discuss its further progress with the NAPM/LLC at their upcoming meeting. The proposed package is attached. Changes made at the May meeting are indicated in BLUE:



* NANC 187 – Linked Replies: At John Malyar’s suggestion, NeuStar took an ACTION ITEM to investigate how to reuse NANC 187 enhancements in the context of a new recovery process (“What did I miss?”) in a future release. We don’t want to duplicate development effort or do rework. We want as much synergy as possible. Jim Rooks, NeuStar, and John Malyar, Telcordia, will look into and report back.
* NANC 356 - **Unique Identifiers for wireline versus wireless carriers (interim solution):** Bell South will introduce this request to the NAPM LLC for further action.

Service Provider Regression Testing:

* Rob Coffman, NeuStar, reported that the NAPM LLC has requested that the LNPA clarify when service provider regression testing is required. Rob will send out the document to be discussed at the June LNPA meeting. Members are to come prepared to discuss and develop guidelines.

Northeast NPAC Outage Update Call:

* The LNPA briefly adjourned in order to join a conference call held by NeuStar to provide an update on the Northeast NPAC outage that took place on 5/15/02. NeuStar reported on the call that NPAC was now up and running and replicating. Duplicate data was not the issue. It appeared, according to NeuStar, that the outage was a result of a database configuration problem. This is not related to the 3.1 application. NeuStar will continue to investigate and provide a Root Cause Analysis.

New Business:

* Gary Sacra, Verizon, reported that an issue has been raised regarding the grandfathering of wireless NXX codes during NPA splits. Porting of these grandfathered wireless numbers to wireline switches has potential 911 implications as well as additional issues which include possible non-compliance to the split Order, switch trunking requirements, etc. This issue will be on the agenda for discussion at the June Wireless Number Portability Operations (WNPO) Team meeting. The NENA Wireless Number Portability (WNP) Team will research the 911 implications. Gary posed the question as to whether or not a service provider could deny such a port in order to avoid any issues. The LNPA consensus was that this is a State Commission issue.
* WorldCom asked whether LNPA-WG – using the PIM process perhaps – would be appropriate forum to present WorldCom concern over attempts by some carriers to charge for a CSR or to insist that their CSR reply be sent only to the customer. It was observed that the CSR is not limited to porting numbers, but that a PIM could be submitted if only to bring matter before NANC through the LNPA-WG’s status report.

**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 Atlanta, Georgia on June 12-13.

**Meeting Schedule:**

**2002 Meeting Schedule:**

LNPA WG: Host:

June 12 - 13 AT&T – Atlanta, GA

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