**MEETING MINUTES:**

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| Qwest Education Center | Phoenix, AZ | Host: Qwest/NeuStar |

**Wednesday, January 15, 2003 – 8:30 AM – 5:00 PM**

Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Jessica Burrel | Accenture | Stephen Addicks | | NeuStar |
| Beth Watkins | AT&T (phone) | Susan Ortega | | Nextel |
| H.L. Gowda | AT&T | Dave Garner | | Qwest |
| Paul LaGattuta | AT&T | Kathy McGinn | | Rural Cellular Corp. (phone) |
| Sean Hawkins | ATTWS | Charles Ryburn | | SBC |
| Stephen A. Sanchez | ATTWS | Leah Luper | | SBC |
| Lonnie Keck | ATTWS (phone) | Kathleen Tedrick | | Sprint |
| Lee Hunter | BellSouth | Rick Dressner | | Sprint PCS |
| Ron Steen | BellSouth | Susan Tiffany | | Sprint PCS |
| Dave Cochran | BellSouth | Colleen Collard | | Tekelec (phone) |
| Marian Hearn | Canadian LLC | Pat White | | Telcordia Technologies |
| James Grasser | Cingular Wireless | John P. Malyar | | Telcordia Technologies |
| Monica Dahmen | Cox Communications | Marybeth Degeolgis | | Telcordia Technologies |
| Dennis Robbins | Electric Lightwave (phone) | Adam Newman | | Telcordia Technologies |
| Threse Mooney | Global Crossing | Jean Anthony | | Telecom Software |
| GiGi Neelis | Level 3 Communications | Lisa Marie Maxson | | Telecom Software (phone) |
| Rick Jones | NENA | Gary Williams | | T-Mobile |
| Gene Johnston | NeuStar | Glenn Mills | | TSI |
| Jim Rooks | NeuStar | Bob Jones | | US Cellular |
| John Nakamura | NeuStar | Charlotte Holden | | US Cellular |
| Larry Vagnoni | NeuStar | Chuck Bohl | | US Cellular |
| Rob Coffman | NeuStar (phone) | Maggie Lee | | VeriSign |
| Darius Irani | NeuStar (phone) | Gary Sacra | | Verizon |
| Barry Bishop | NeuStar (phone) | Linda Godfrey | | Verizon Wireless |
| Steve Cory | NeuStar | Julie Groever | | Verizon Wireless |
| Marcel Champagne | NeuStar | Jason Lee | | WorldCom (phone) |
| Shannon Collins | NeuStar (phone) | Karen Mulberry | | WorldCom |

Attached are the Action Items assigned at the January, 2003 LNPA meeting. Also included are the remaining open Action Items from previous meetings.



NOTE: ALL ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “JANUARY 2003 LNPA ACTION ITEMS” FILE ATTACHED ABOVE.

12/02 Minutes Review:

The following changes were made to the DRAFT December, 2002 LNPA Minutes during the January meeting and will be reflected in the FINAL December, 2002 version.

* Gene Johnston, NeuStar, is listed twice in the attendee list. Remove one listing.
* Modify the beginning of the note on page 10 to reflect, “Subsequent to 12/02 LNPA meeting……”
* Add the following sentence prior to the 3rd sentence in 2nd bullet on page 3: “In addition, wireless carriers have been inadvertently porting other wireless carriers’ numbers during testing.”
* Add the following to the readout of PIM 21 on page 6: “With regard to PIM 21, AT&T also stated their INC contribution to the *Procedures for Code Holder/LERG Assignee Exit* will address abandoned TNs ported into carriers who have left the market.”
* Page 5, 3rd paragraph – remove sentence referring to NeuStar’s action item on canvassing the Cross Regional team.

Wireless Number Portability Operations (WNPO) Committee Report as reported by Jim Grasser, WNPO Chairperson:

* NeuStar gave the attached presentation to the WNPO explaining the various NPAC test beds and the impact of 3.2 testing.



* A potential problem was discovered during testing on a wireless to wireline port. The wireline provider could not update the CNAM record for the number to be ported in and therefore did not activate the port. Due to concerns that this may not be an isolated problem, the WNPO agreed to work this issue. Jim Grasser, WNPO Chairperson, took an ACTION to send out a description of the issue with an example scenario and questions for LIDB and CNAM providers.
* An election was held for the vacant WNPO Co-Chair position. Sean Hawkins, AT&T Wireless, was elected. Jim Grasser, Cingular Wireless, announced he is stepping down as Co-Chair. Another election to fill his spot is necessary. Nominees were solicited for an upcoming election to be held at the February WNPO meeting.
* The group discussed an issue regarding porting of non-migrated Type 1 cellular numbers. In the case of a full NXX code assigned Type 1 cellular numbers and used exclusively by a wireless service provider, issues may arise if those numbers are not migrated to the wireless service provider prior to porting any of the numbers to yet another wireless provider. Communications are required between the wireline LEC and the wireless service provider in sufficient time to ensure that the wireline LEC can route calls to the porting number correctly. Additional work will be done on this issue at the February WNPO.
* The group discussed the wireless reseller flows and sent further changes to NeuStar, who is coordinating the project to update the NANC LNP Provisioning Flows.
* NeuStar report:
* There were 7 new Non-Disclosure Agreements (NDAs)/User Applications and Interconnect Plans from wireless service providers since the last WNPO (total is now 47 wireless providers). Six additional wireless providers have completed the NDA/User Application only.
* A total of 7 wireless service providers/service bureaus have completed new entrant testing.
* No testing is taking place currently between wireless service providers and NPAC.
* 225,666 intra-SP ports for contaminated numbers within donated pooled blocks have been performed by wireless providers.
* NENA report:
* No new issues have been identified during testing.
* NENA continues to address issues related to uninitialized phones.
* The Implementation Guideline and Narrative were both updated and are attached.

 

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

* The APT met for the first time on 1/14/03. The team developed the following as its 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 team began with a discussion on the CMIP Alternative Business Need in order to determine if we need to improve CMIP or identify an alternative.
* Dave Cochran, BellSouth and the originator of NANC Change Order 372, discussed potential drivers and cited:
* Cost of maintaining internal CMIP interface expertise and resources
* Ability to take advantage of in-house expertise for some of the newer architectures, e.g., CORBA, XML, JAVA, J2E
* The team then spent the remaining meeting time identifying discussion topic categories, identification of numerous discussion topics within each category, and how much time will be allotted for discussions of each category during each meeting:
* Topic Category 1: Current Issues (45 minutes discussion during each meeting)
* Making EDR required for pooling?
* Production issues
* Enforcing a sunset policy
* Non-critical LSMSs and avoiding partial failures
* Third party product issues
* NPAC Maintenance Mode - allowed requests?
* Analysis of provider use and/or efficiency of past NPAC changes
* Topic Category 2: Interface Requirements (30 minutes discussion during each meeting)
* Defining base assumptions, business principals
* Protocol alternatives
* Interface OID changes
* Topic Category 3: Interface Improvements (2 hours discussion during each meeting)
* Outbound flow control
* Recovery changes
* 15/60 minute abort changes
* Round-Robin Broadcasts (ILL 5)
* Batch processing for LSMS/SOA Requests and Notifications
* Enhanced Error Messaging (e.g., application level errors) (NANC 130)
* Topic Category 4: Performance Requirements (30 minutes discussion during each meeting)
* NPAC/SOA/LSMS performance/availability requirements/measuring/compliance
* Efficient Data Gathering (e.g., vendor metrics, LLC requests) (NANC 362)

Discussion topics highlighted in yellow above will be discussed at the February APT meeting in Tampa. The APT will continue to meet Tuesday afternoon during LNPA week from 1-5pm local time.

Reseller Flows:

* NeuStar walked the group through the latest draft of the incorporated LNP provisioning process flows. A number of revisions were made. The review will also continue at the February, 2003 LNPA meeting.



* The LNPA Working Group took an ACTION to review Figure 14 of the draft NANC LNP Provisioning Flows, proposed to replace boxes 13 through 25 in the Figure 1 main flow, and come prepared to the February LNPA meeting to accept, modify, or reject the proposal. See attached. The group will also decide how to reflect the values of tunables in the flows and narratives.



NANC 356 (Service Provider Name Field change) Rescheduling:

* NeuStar stated that NANC 356 could be implemented during the next scheduled NPAC maintenance in February, during a Sunday service provider maintenance window. That NPAC maintenance will take place either on 2/2/03 or 2/9/03. Concern was expressed by some regarding doing NANC 356 the day after the scheduled 2/1/03 disaster recovery drill. As a result, it was decided to implement NANC 356 on 2/9/03 if NPAC scheduled maintenance during that Sunday window. If NPAC does not schedule maintenance for 2/9/03, implementation of NANC 356 will be deferred until a Sunday service provider maintenance window in March when NPAC is also scheduled for maintenance.
* NeuStar will notify the industry via the NPAC maintenance notification process announcing for which maintenance window the Bulk Data Download (BDD) files will be created for NANC 356 implementation. The BDD files will be created prior to the maintenance window for service providers to pull down from their respective FTP sites. Logistics will be included in the notification for the maintenance window.

NOTE: Subsequent to the January LNPA meeting, NeuStar stated that NANC 356 will be implemented during a March maintenance window. Date to be finalized.

NeuStar will send an e-mail to Charles Ryburn, LNPA Co-Chair, identifying which Sunday maintenance window in March NANC 356 will be implemented.

NANC Change Orders 192 and 319 LERG Data Discussion:

* NeuStar, Telcordia, and the LNPA Co-Chairs met off-line and resolved the remaining issues surrounding NANC 192 and 319 data requirements.
* Telcordia reported that a member of the Common Interest Group on Rating and Routing (CIGRR) requested that Telcordia investigate the possibility of validating selected LERG data with the NPAC. Adam Newman, Telcordia TRA, took an ACTION to advise that CIGRR member to bring in a PIM to the LNPA on addressing validation of the relevant data between the LERG and NPAC.

PIMs:

* PIM 5 – Statement of Work (SOW) 19, which describes NeuStar’s role in the process of addressing inadvertent ports, has been approved. The process M&P has been loaded on the NPAC website and became effective on 12/18/02. This PIM is now CLOSED.
* PIMs 14, 15, 20, and 21 –
* The INC continues development of its guidelines, *Procedures for Code Holder/LERG Assignee Exit*, that describe the responsibilities of NANPA, service providers, and the Pool Administrator when a service provider is returning or abandoning codes/blocks that contain ported telephone numbers (INC Issue 364). The INC has been requested to allow the LNPA an opportunity to review the document before it goes to final closure. INC will have an interim call to further discuss the guidelines on 2/7/03.
* With regard to the flow on the first page of the attached *CO Code (NXX)*

*Re-Allocation Process*, NeuStar explained that the left side of the flow, “non-pooling NXX,” means that the Pool Administrator has not been involved with that NXX. It does not necessarily refer to a non-pooling area. In both the non-pooling NXX and pooling NXX cases, the new codeholder does not have to take all 10 blocks. For a non-pooling NXX, this is also applicable in both pooled areas and non-pooled areas. NeuStar took the following action items:

1. clarify that the left side of the flow applies to non-pooling NXXs in both pooled areas and non-pooled areas. This clarification will be added on the flow page.
2. on page 3 of the document, change Note 1 to read, “In a pooled NXX the new LERG assignee must retain all blocks contaminated in excess of 10%.
3. an Addendum (see attached file “LNPA WG AI 1202.05.doc”) to the guidelines will have website contacts for NANPA and the Pool Administrator, and an e-mail alias for the NPAC point of contact in lieu of names and phone numbers.
4. NeuStar will develop the necessary M&P for review by the LNPA. The M&P will address who the service provider should contact to address problem scenarios, e.g., for pooling areas contact the PA, for non-pooling. The draft M&P is planned for review at the February, 2003 LNPA. The M&P will have detailed contacts – names, telephone numbers.

 

* PIM 18 - Review of the Reseller Flows continues in the LNPA.
* PIM 22 - Verizon presented their revised Change Order for a proposed resolution to this PIM (see attached).



This revised Change Order proposed modifying the Conflict functionality in NPAC such that any of the Conflict Status Cause Values may be placed on a list of Cause Values requiring treatment by a new (additional) Conflict Resolution New Service Provider Restriction Tunable Parameter timer, separate and distinct from the existing timer. Some members expressed objection to the proposed initial setting of the new timer to 72 business hours, due to concerns that this could push a pending port beyond the due date. Service Providers took an ACTION to investigate internally how often the scenario described in PIM 22/NANC 375 occurs for discussion at the February LNPA meeting. Verizon will consider revising the proposed Change Order such that the new timer would enable additional time for resolving conflicts within the bounds of the due date.

Review of December Action Items:



* Item 1202-01: This item was completed by NeuStar and is Closed.
* Item 1202-02: NeuStar stated that when they receive a notice for planned maintenance outside the Sunday maintenance window from a service provider, they include the notification in the next Friday’s maintenance window announcement to the industry. This item is Closed.
* Item 1202-03: NeuStar stated that they will continue sending the notification to the industry announcing maintenance to be taken by service providers within the normally scheduled Sunday SP Maintenance Window. This item is Closed.
* Item 1202-04: Item is Closed. See new Action Item 0103-03.
* Item 1202-05: Item remains Open for review at February, 2003 LNPA meeting.
* Item 1202-06: This request should not have been made of MCI/WorldCom. NeuStar stated that they have retrained all Help Desk USAs regarding this scenario. This item is Closed..
* Item 1202-07: This item was completed by NeuStar and is Closed.
* Item 1202-08: Subsequent to the 12/02 LNPA meeting, Sprint PCS reported that the issue has been resolved and that the scheduling of NANC 356 implementation can proceed. This item is Closed.
* Item 1202-09: Verizon and Qwest reported that they do not populate wireless numbers in their LIDB databases. SBC will check on any regulatory mandates to do so in Texas. This item is Closed. See new related Action Items 0103-06 and 0103-09.
* Item 1202-10: Item remains Open. LNPA is awaiting INC’s *Procedures for*

*Code Holder/LERG Assignee Exit* for review before going to Final Closure at INC.

* Item 1202-11: NANC 191/291 edit failure report to be discussed at the January NAPM/LLC meeting.

Follow-up to 01/03 LNPA meeting: The NAPM/LLC declined to request distribution of the report by NeuStar due to the cost to develop the necessary script and produce the report. This item is Closed.

* Item 1202-12: Item completed and Closed.
* Item 1202-13: Item completed and Closed.
* Item 1202-14: Item completed and Closed.
* Item 1202-15: Item remains Open and has been placed on the February, 2003 LNPA agenda.
* Item 1202-16: Item remains Open and has been placed on the February, 2003 LNPA agenda.
* Item 1202-17: Item remains Open and has been placed on the February, 2003 LNPA agenda.
* Item 0802-01: Item remains Open. Jim Grasser, WNPO Chairperson, will send to Charles Ryburn, LNPA Co-Chair, before the February LNPA meeting.
* Item 0902-17: The SPID Migration M&P (NANC 323) is part of NeuStar’s 1Q03 work plan. Item remains Open.
* Item 1102-04: NeuStar will report out on the results of the CMIP Departure Time Validation Check change (changed from 5 minutes to 15 minutes), implemented during the 11/17/02 maintenance window, at the February LNPA using January data results. Item remains Open.
* Item 1102-09: Discussions on potential alternatives to CMIP protocol has been moved into the new LNPA’s Architecture Planning Team. Item is Closed.

# THURSDAY, January 16, 2003 – 8:30 – 5:00 PM

Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Jessica Burrel | Accenture | Stephen Addicks | | NeuStar |
| Beth Watkins | AT&T (phone) | Susan Ortega | | Nextel |
| H.L. Gowda | AT&T | Dave Garner | | Qwest |
| Paul LaGattuta | AT&T | Kathy McGinn | | Rural Cellular Corp. (phone) |
| Sean Hawkins | ATTWS | Charles Ryburn | | SBC |
| Stephen A. Sanchez | ATTWS | Leah Luper | | SBC |
| Lonnie Keck | ATTWS (phone) | Kathleen Tedrick | | Sprint |
| Lee Hunter | BellSouth | Rick Dressner | | Sprint PCS |
| Ron Steen | BellSouth | Susan Tiffany | | Sprint PCS |
| Dave Cochran | BellSouth | Colleen Collard | | Tekelec (phone) |
| Marian Hearn | Canadian LLC | Pat White | | Telcordia Technologies |
| James Grasser | Cingular Wireless | John P. Malyar | | Telcordia Technologies |
| Monica Dahmen | Cox Communications | Marybeth Degeolgis | | Telcordia Technologies |
| Dennis Robbins | Electric Lightwave (phone) | Adam Newman | | Telcordia Technologies |
| Threse Mooney | Global Crossing | Jean Anthony | | Telecom Software |
| GiGi Neelis | Level 3 Communications | Lisa Marie Maxson | | Telecom Software (phone) |
| Rick Jones | NENA | Gary Williams | | T-Mobile |
| Gene Johnston | NeuStar | Glenn Mills | | TSI |
| Jim Rooks | NeuStar | Bob Jones | | US Cellular |
| John Nakamura | NeuStar | Charlotte Holden | | US Cellular |
| Larry Vagnoni | NeuStar | Chuck Bohl | | US Cellular |
| Rob Coffman | NeuStar (phone) | Maggie Lee | | VeriSign |
| Darius Irani | NeuStar (phone) | Gary Sacra | | Verizon |
| Barry Bishop | NeuStar (phone) | Linda Godfrey | | Verizon Wireless |
| Steve Cory | NeuStar | Julie Groever | | Verizon Wireless |
| Marcel Champagne | NeuStar | Jason Lee | | WorldCom (phone) |
| Shannon Collins | NeuStar (phone) | Karen Mulberry | | WorldCom |

NANC 356 (Service Provider Name Field change) Rescheduling (discussion continued):

* Bell South asked if NAPC edits the changes to the SP Name Field to ensure that the data is valid and correct. NeuStar responded that this Change Order was implemented at low cost and does not validate the data entered, i.e. /1, /2, /3. It is important for service providers to verify the data. If it is not obvious in the service provider’s name whether they are wireline or wireless, the service provider should contact Rob Coffman, NeuStar, to ensure their name is changed correctly. NeuStar further explained that if there was any question as to whether a service provider is wireline or wireless, NeuStar reviewed the service provider’s NPAC application to see if they were certified as a wireless carrier with the FCC, or certified with a state PUC as a wireline carrier.
* SBC and Bell South then asked if a listing of the modified name fields could be provided for service provider validation. It was agreed that the Bulk Data Downloads would be available prior to the start of the maintenance window for service providers to review. Service providers can clear any mistake by modifying their name field after the BDD is loaded locally. If an error is identified, NeuStar recommends that service providers edit their name field locally before they use the data in their downstream systems. It was agreed that no listing is necessary.

Change Management Discussion:

* The group reviewed Revision 95 of the Change Order Package.
* NANC 249: NeuStar took an ACTION to send out a message to all SOA vendors asking if there is an impact with the attached recommendation regarding functionality related to the modification of Disconnect-Pending Subscription Versions .



* NANC 350 has been merged into NANC 347. NANC 347 now describes the 15 minute and 60 minute abort behavior. NANC 347 was accepted.
* NANC 355: Accepted.
* NANC 357: This is the long-term version of NANC 356, SP Name Field Change. The Change Order was accepted.
* NANC 358: This Change Order changes the SPID from a variable 1-4 alphanumeric to a fixed 4 character alphanumeric in ASN.1 in order to be consistent with NPAC requirements and edits. This is a change to the interface and will require a recompile at NPAC and local systems. NANC 358 was accepted.
* NANC 359: This is the documentation change related to NANC 358. It also states that the Billing ID can be a variable 1-4 alphanumeric. NANC 359 was accepted.
* NANC 360: Doc only change. Accepted.
* NANC 361: Doc only change. Accepted.
* NANC 363: SOA/LSMS vendor impact discussion has been deferred to the February agenda. Change Order was accepted.
* NANC 364: Accepted.
* NANC 365: Accepted.
* NANC 366: Accepted.
* NANC 367: Accepted.
* NANC 377: NeuStar proposes closing this Change Order with no action.
* NANC 379: Accepted.
* Qwest stated that we need a model by which the industry can do performance and capacity planning. This will be discussed in the Architecture Planning Team (APT) as to how best to proceed.
* NOTE: There is currently no targeted date for the next NPAC software release beyond Release 3.2.

NPAC Release 3.2 Project Plan:

* NeuStar reported that the 3.2 Project Plan remains on track.
* Service Provider Individual Turn-up Testing interval (3/4/03 – 4/25/03)
* Service Provider Group and Performance Testing interval (4/28/03 – 5/14/03)
* Region 1 production on 5/19/03
* Regions 2, 3, 4 production on 6/2/03
* Regions 5, 6, 7 production on 6/16/03
* NeuStar also reported that the test bed for vendor Interop testing (ITP testing) encountered the same issue with large PDUs that was encountered in production. This issue has since been resolved.
* NOTE: Subsequent to the January LNPA meeting, the NAPM/LLC, on 1/31, approved the following Regional order for the production rollout of NPAC Release 3.2:

**Production Date Regions**

5/19/03 Midwest

6/2/03 Mid-Atlantic, Southeast, Southwest

6/16/03 Northeast, West Coast, Western

New Business:

* SBC raised an issue where NXXs are created in the wrong region and the implications in local systems. SBC asked if a NANC Change Order could be developed to provide an edit to reject any attempt to create an NXX in the wrong region. NeuStar stated this could possibly be done by mapping NPAs to their appropriate region. Leah Luper, SBC, will submit a business need for a proposed Change Order. This business need will also reference if it is necessary to address the northern Kentucky situation, where an NPA crosses NPAC regional boundaries.
* Tekelec raised an issue related to NPAC’s ability to audit an LSMS based on activation timestamp. If a service provider audits another provider’s LSMS based on activation timestamp, NPAC passes this on to the audited LSMS for both ported and pooled SVs, and pooled block objects. NANC Change Order 343 does not provide this filter for pooled block objects as it is currently written.

NeuStar response: NANC 343 has not been implemented yet but it is accepted. Tekelec stated a preference for implementing NANC 343 as it is and opening up a new Change Order for pooled block objects. NeuStar prefers to add the activation timestamp filter for pooled block objects to NANC 343. This would be a doc only change for NPAC. NANC 343 will be reopened for discussion. NeuStar will modify NANC 343 to reflect that the activation timestamp filter applies to pooled block objects.

Remaining 2003 Meeting Schedule:

* Wireless will meet on Mondays and Tuesdays, the new Architecture Planning Team will meet on Tuesdays from 1pm-5pm local time, and the LNPA will meet on Wednesdays and Thursdays.
* Feb. Week of 2/17. No NANC meeting. Hosted by TSI in Tampa.
* Mar. Week of 3/10. NANC meets on 3/19. Hosted by SBC in San Antonio.
* Apr. Week of 4/7. No NANC meeting. Hosted by NeuStar in Sterling, Va.
* May Week of 5/5. NANC meets on 5/13. Hosted by Sprint in Kansas City.
* Jun. Week of 6/9. No NANC meeting. Hosted by AT&T in NY or Atlanta.
* Jul. Week of 7/7. NANC meets on 7/15. Hosted by Cingular in Chicago (tentative).
* Aug. Week of 8/11. No NANC meeting. Hosted by AT&T Wireless in Seattle (flexible to swap).
* Sep. Week of 9/15. NANC meets on 9/25. Hosted by Verizon in Portland, Maine.
* Oct. Week of 10/13. No NANC meeting. Hosted by Canadian Consortium in Banff, Alberta, Canada.
* Nov. Week of 11/10. NANC meets on 11/5. Hosted by VeriSign in Overland Park, Kansas.
* Dec. Week of 12/8. No NANC meeting. Hosted by Telcordia in San Diego.