**MEETING MINUTES:**

|  |  |  |
| --- | --- | --- |
| Tampa City Center | Tampa, FL | Host: TSI |

**Wednesday, February 19, 2003 – 8:30 AM – 5:00 PM**

Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Beth Watkins | AT&T (phone) | Dave Garner | | Qwest (phone) |
| H.L. Gowda | AT&T | Charles Ryburn | | SBC |
| Sean Hawkins | ATTWS | Leah Luper | | SBC |
| Stephen A. Sanchez | ATTWS | Kathleen Tedrick | | Sprint (phone) |
| Lee Hunter | BellSouth | Rick Dressner | | Sprint PCS |
| Ron Steen | BellSouth (phone) | Colleen Collard | | Tekelec |
| Dave Cochran | BellSouth | John P. Malyar | | Telcordia Technologies |
| Marian Hearn | Canadian LLC | Adam Newman | | Telcordia Technologies |
| James Grasser | Cingular Wireless (phone) | Jean Anthony | | Telecom Software (phone) |
| Monica Dahmen | Cox Communications (phone) | Jim Gray | | T-Mobile |
| Dennis Robbins | Electric Lightwave (phone) | Rob Smith | | TSI |
| Keagan O’Rourke | Evolving Systems | Glenn Mills | | TSI |
| Rick Jones | NENA | Darren Paffenroth | | TSI |
| Gene Johnston | NeuStar | Bob Jones | | US Cellular |
| Jim Rooks | NeuStar | Charlotte Holden | | US Cellular (phone) |
| John Nakamura | NeuStar | Chuck Bohl | | US Cellular |
| Rob Coffman | NeuStar (phone) | Maggie Lee | | VeriSign |
| Darius Irani | NeuStar (phone) | Gary Sacra | | Verizon |
| Barry Bishop | NeuStar) | Sharon Bridges | | Verizon |
| Marcel Champagne | NeuStar | Kevin Lewis | | Verizon |
| Stephen Addicks | NeuStar (phone) | Julie Groeven | | Verizon Wireless |
| Susan Ortega | Nextel (phone) | Jason Lee | | WorldCom (phone) |
| Cheryl Haynes | Nuvox | Karen Mulberry | | WorldCom |

Attached are the Action Items assigned at the February, 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 “FEBRUARY 2003 LNPA ACTION ITEMS” FILE ATTACHED ABOVE.

01/03 Minutes Review:

The following changes were made to the DRAFT January, 2003 LNPA Minutes during the February meeting and will be reflected in the FINAL January, 2003 version.

* At the end of the Change Management discussion, add a comment that there is currently no targeted date for the next NPAC release (beyond Release 3.2).
* It was mentioned that new NANC Change Order 321 addresses SBC’s concern documented in the New Business section of the 01/03 Minutes. This concern related to NXX codes being opened up in the wrong Regional NPAC. This will be reflected in the 02/03 Minutes.
* Add page numbers to Minutes.

Wireless Number Portability Operations (WNPO) Committee Report as reported by Maggie Lee, WNPO Co-Chairperson:

* Maggie Lee, VeriSign, is the newly elected WNPO Co-Chair, replacing Jim Grasser. Many thanks to Jim for his dedicated service to the industry as the Chairperson of the WNPO. The WNPO now has two Co-Chairs, VeriSign’s Maggie Lee, and AT&T Wireless’ Sean Hawkins.
* The WTSC is adding Inter-Carrier Communications (ICC) test cases to the test plan. A liaison is to be sent to the OBF, LNPA, and CTIA urging participation in inter-species testing.
* Lonnie Keck, AT&T Wireless, is the new Co-Chair of the OBF Wireless Workshop. He is also the Co-Chair of the WTSC’s Inter-species Testing Group.
* LIDB Database update discussion: US Cellular determined that their NPA-NXXs were placed in the local LIDB database by error and not as a result of a State Regulatory mandate. Issue is now closed. VeriSign gave a presentation on LIDB and CNAM and how the databases are updated. A recommendation will be added to the WNPO’s Decision and Recommendation Matrix advising service providers to consult with their LIDB database providers in order to understand the mechanics, timing, etc., on the database updates to ensure that the necessary updates during porting are completed in a timely manner. The current version of the matrix is attached.



* JIP/Billing issue: The WNPO sent letter back to the OBF asking for additional clarification on the issue. OBF is forming a committee among OBF, WNPO, and LNPA to address. See attached OBF letter describing the issue and the WNPO response.

 

* AT&T Wireless and the Pooling Administrator (PA) will submit a PIM to allow the PA to verify in NPAC that pooled blocks do not exceed the 10% contamination level. The PIM will also address cases where blocks are donated but the donor has not opened the code in NPAC. The PIM is to be submitted next month for discussion at the April meeting.
* The WNPO will attempt to close their meetings at 2:30pm on Tuesdays to allow participation at the Architecture Planning Team (APT) meetings, which start at 1pm on Tuesday of LNPA week.
* Porting of Type 1 Cellular numbers: This issue relates to porting and pooling Type 1 numbers that have not yet been migrated to the serving wireless carrier. A conference call has been scheduled for March 3rd to discuss this issue further. SBC has proposed creation of a process flow for porting these numbers (attached).



* The group further discussed the wireless reseller flows and sent additional changes to NeuStar, who is coordinating the project to update the NANC LNP Provisioning Flows.
* NeuStar report: There were 3 new Non-Disclosure Agreements (NDAs)/User Applications and Interconnect Plans from wireless service providers since the last WNPO (total is now 56 wireless providers).
* In preparation for the upcoming 11/24/03 wireless porting implementation date, the WNPO is in the process of identifying the wireless carriers licensed in the top 100 MSAs. It was reported that the number appears to be close to 60 licensed carriers.
* The Wireless Pooling Task Force (WPTF) has been disbanded. Wireless pooling issues will now be addressed in the WNPO.
* The Implementation Guideline and Narrative were both updated and are attached.

 

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

* The APT met for the second time on 2/18/03. Attached is the meeting agenda.



* NeuStar presented the attached team working document to serve as a framework for the APT’s continued discussions on the strategic direction of the LNP architecture.



* NeuStar reported an approximate 90% reduction of CMIP Invalid Departure Time aborts since raising the timer from 5 to 15 minutes.
* Discussion of Current Issues:
* Production Issues: NeuStar will add the impact of queries on production to the list of issues under discussion.
* Analysis of Provider Use and/or Efficiency of Past Change Orders:

The APT identified the following steps to be taken:

1. We need to identify past Change Orders and issues that are relevant to interface and system performance and identify the expected improvement if universally implemented or addressed. Examples are:

* Impact of aborts on production (covers several Change Orders)
* Range notifications
* SOA Notification prioritization
* EDR vs. non-EDR
* Linked Replies

1. Prioritize the list of relevant Change Orders.
2. Identify service provider use of these Change Orders, e.g. identify those that are not maintaining their associations and determine if they have implemented these Change Orders and, if not, will their deployment improve their ability to maintain associations.
3. Identify what data can be collected to measure the benefit of these Change Orders.

Path forward: NeuStar will build a spreadsheet of relevant Change Orders, the problems they address, and the expected improvement if implemented.

* Discussion of Interface Requirements:
* Business Principals (we need to identify business drivers for originally choosing CMIP as the interface protocol and determine if these drivers are still valid). Some possible drivers were identified during the discussion:
* Throughput requirements
* Security (e.g. Confirmed Mode, Digital Signatures as opposed to full encryption)
* Interactive, real-time interface as opposed to batch
* Private network
* Local database with network element provisioning
* 15 minute download response
* Recovery over the interface
* Based on TMN
* Backwards compatibility
* Any additional drivers identified by APT members should be sent to NeuStar. It was suggested that the original NPAC Request For Proposal (RFP) should be researched to obtain the business principals that drove the selection of CMIP.
* Discussion of Interface Improvements:
* The APT discussed in detail the proposed Change Order for Outbound Flow Control (contained in the Working Document attached above). This discussion will continue at the March APT meeting.
* Discussion of Performance Requirements:
* The APT began discussion on NPAC, SOA, and LSMS performance and availability requirements, and how to measure and possibly enforce compliance. This will be further discussed and developed at subsequent APT meetings.

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 March, 2003 LNPA meeting.



* Relevant tunable parameters will continue to be referenced in the flows. Their logical name (e.g., T1 Timer) will be referenced in the actual flow diagram, while their complete name (e.g. **Subscription Version Old SP Concurrence Request Notification**) and current values (wireline – 9 hours and wireless – 1 hour) will be included in the process flow narrative on the right-hand side of the appropriate process step.
* Figure 14 and the Alternative Main Flow in the attached file above will be modified by NeuStar to reflect this meeting’s revisions so the group can compare with the current Main Flow and its revisions. These flows have been proposed as a replacement to the current Main Flow in order to make the process more legible and easier to follow. NeuStar took an action to provide this prior to the March meeting. The LNPA took an action to decide on the use of the Alternate Main Flow and Figure 14 at the March meeting.

NANC 356 (Service Provider Name Field change) Rescheduling:

* NANC 356 will be implemented during the following Sunday maintenance windows for these regions:
* 3/23/03 for the Northeast, Southeast, and West Coast Regions
* 3/30/03 for the Mid-Atlantic, Midwest, Southwest, and Western Regions
* An LNPA member reported seeing inconsistencies in data and format with some of the current name fields. NeuStar stated that they are confident that any current names with /1, /2, or /3 are providers that have been added after the agreements on NANC 356 requirements were reached.
* NeuStar stated that the data will be updated and the Bulk Data Download files will be created during the maintenance window.
* In response to a request for a possible listing of the updated Service Provider Name Fields to be included in the BDD, NeuStar stated that the generation of such a list for service provider validation prior to implementation could be done as an Ad Hoc Report. No further action taken on this request.
* The LNPA recommended that NANC 356 be implemented as scheduled.
* NeuStar took an action to send notifications of NANC 356 (Service Provider

Name Field Change) implementation in the 3/23 and 3/30 Sunday Maintenance Window notifications, with an advisory that service providers are encouraged to validate their name and correct any errors themselves or contact the Help Desk if assistance is required.

NANC Change Orders 191/291 Report Discussion:

* The NAPM/LLC chose not to pursue implementation of these reports due to the cost to generate. Service providers are encouraged to check their own databases for errant SVs and make the necessary corrections.

PIMs:

* PIMs 14, 15, 20, and 21 – Adam Newman, Telcordia and the LNPA’s liaison to INC, reported that 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). INC had an interim call on 2/7 to discuss AT&T’s and the LNPA’s contributions. INC will continue to work at their next meeting. INC appears to have accepted AT&T’s suggestion to place a porting cutoff of 14 days prior to the LERG disconnect date on any code that does not contain ported numbers. If accepted, INC will address any policy questions at NANC. LNPA members are encouraged to contact their INC reps recommending that INC provide a final version of their guidelines for review by the LNPA prior to going to Final Closure.

CO Code (NXX) Re-allocation Process: This document was accepted by the LNPA. Attached is the final accepted version.



NeuStar will send the CO Code Re-allocation Process to the Cross-Regional distribution, advising of its approval during the February LNPA meeting, after the LNPA distribution is notified. The advisory will also state that the process became effective on 2/24 and will be uploaded to the national pooling website. Service Providers are to review the attached DRAFT User M&P for the CO

Code Reallocation Process, and provide any comments to the Project Executives, H. L. Gowda (hlgowda@att.com) and Gary Sacra (gary.m.sacra@verizon.com) **by 3/10**, for discussion at the next Project Executive meeting with NeuStar.



* 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).



As in previous versions, 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. This version of the proposed Change Order, however, suggested the timer be set at 12 business hours and run Monday through Saturday in order to address concerns that legitimate pending ports could be pushed beyond the due date. Consensus could not be reached to move NANC 375 to approved status. In addition, no consensus was reached to raise the current Wireline Conflict Timer from 6 business hours. PIM 22 remains open. Verizon requested that the LNPA continue to explore ways to satisfactorily resolve this issue.

* NEW PIM 23 - Adam Newman, Telcordia, reported on a new PIM submitted by the Common Interest Group on Rating and Routing (CIGRR), addressing inconsistencies between data in the LERG and NPAC. This PIM is seeking data validation between the LERG and NPAC for LRN, NXX, NXX-X, effective date, and Service Provider ID data that is entered into the two databases. This PIM will be formerly discussed at the March LNPA meeting.



NPAC Release 3.2 Project Plan:



* NeuStar reported that LSMS/SOA vendor inter-operability (ITP) testing is now successfully completed.
* 4 vendors did current platform software regression testing only. 3 vendors did regression testing and new 3.2 functionality testing.
* Of the 30 providers required to do turn-up testing with NPAC for 3.2, 16 have signed up. Others are working with NeuStar to arrange slots.
* The Western Region database will be used for testing.
* The next version of the plan will reflect the region names in the appropriate production slots.
* NeuStar will develop a schedule for LNPA review of the attached DRAFT

Release 3.2 M&Ps.



# THURSDAY , February 20, 2003

Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Beth Watkins | AT&T (phone) | Dave Garner | | Qwest (phone) |
| H.L. Gowda | AT&T | Charles Ryburn | | SBC |
| Sean Hawkins | ATTWS | Leah Luper | | SBC |
| Stephen A. Sanchez | ATTWS | Kathleen Tedrick | | Sprint (phone) |
| Lee Hunter | BellSouth | Rick Dressner | | Sprint PCS |
| Ron Steen | BellSouth (phone) | Colleen Collard | | Tekelec |
| Dave Cochran | BellSouth | John P. Malyar | | Telcordia Technologies |
| Marian Hearn | Canadian LLC | Adam Newman | | Telcordia Technologies |
| James Grasser | Cingular Wireless (phone) | Jean Anthony | | Telecom Software (phone) |
| Monica Dahmen | Cox Communications (phone) | Jim Gray | | T-Mobile |
| Dennis Robbins | Electric Lightwave (phone) | Rob Smith | | TSI |
| Keagan O’Rourke | Evolving Systems | Glenn Mills | | TSI |
| Rick Jones | NENA | Darren Paffenroth | | TSI |
| Gene Johnston | NeuStar | Bob Jones | | US Cellular |
| Jim Rooks | NeuStar | Charlotte Holden | | US Cellular (phone) |
| John Nakamura | NeuStar | Chuck Bohl | | US Cellular |
| Rob Coffman | NeuStar (phone) | Maggie Lee | | VeriSign |
| Darius Irani | NeuStar (phone) | Gary Sacra | | Verizon |
| Barry Bishop | NeuStar) | Sharon Bridges | | Verizon |
| Marcel Champagne | NeuStar | Kevin Lewis | | Verizon |
| Stephen Addicks | NeuStar (phone) | Julie Groeven | | Verizon Wireless |
| Susan Ortega | Nextel (phone) | Jason Lee | | WorldCom (phone) |
| Cheryl Haynes | Nuvox | Karen Mulberry | | WorldCom |

Change Management Discussion:

* NANC 363: Not backwards compatible. Could require SOA/LSMS systems to support both Lockheed and NeuStar enterprise numbers if all Regions are not flash cut at the same time. NeuStar will investigate the feasibility of NPAC continuing support of the Lockheed number for a brief sunset period.
* NANC 370: Query function to be added as a supported capability during the NPAC maintenance mode. If NPAC database maintenance is taking place, queries may not be allowed. NeuStar to document in a revised Change Order NANC 370.
* NANC 375: Not approved. See readout of PIM 22.
* NANC 368 – Outbound Flow Control: Discussed in the APT meeting. Red-lined changes will be discussed during March’s APT meeting.
* Discussion of APT process: As Change Orders are accepted, the LNPA will decide whether to work its details and requirements in the full LNPA Change Management session on Wednesdays, or move the work into the APT on Tuesdays. If moved into the APT, the Change Order will be developed there, including detailed requirements. The APT readout to the full LNPA will contain a very high-level report on the Change Order as it develops. The full LNPA will have an opportunity to provide any comments at that time, but the APT report will not contain a detailed readout of each Change Order requirement.

Members of the WTSC and WNPO are asked to provide input on this proposed process, specifically on the acceptability of working detailed requirements in the APT as opposed to having an opportunity for a detailed requirements review during the Change Management session in the full LNPA.

CNAM/LIDB Database Update Discussion:

* Maggie Lee, VeriSign, reviewed the attached presentation, given at the WNPO, describing LIDB and CNAM and how the databases are updated. She reiterated that carriers need to understand their database provider’s process for updating CNAM/LIDB -- the timing, accessing, routing, etc.



* An additional issue was raised regarding a possible Texas PUC regulation restricting the deletion of numbers in LIDB. NuVox took an action to submit the issue to Charles Ryburn, SBC and LNPA Co-Chair, for investigation.

NANC LRN Issue:

* Barry Bishop, Pooling Administrator, submitted and reviewed the attached letter describing the multiple LRN issue he raised at the January NANC meeting.



* Service Providers were asked to provide contributions to Charles Ryburn, LNPA Co-Chair, **by close of business 3/3**, detailing their reasons for requiring these additional LRNs, and any suggested solutions to the issue.
* This issue will be allotted 2 hours on the March LNPA agenda. At this time, the LNPA will keep this issue in-house while we address the carrier needs and possible solutions, and then decide, if appropriate, which industry groups to refer specific scenarios to.

Review of January Action Items:



* Item 0103-01: This item was completed by NeuStar and is Closed.
* Item 0103-02: This item was completed by NeuStar and is Closed.
* Item 0103-03: This item was completed by NeuStar. The document was accepted by the LNPA. The item is now Closed.
* Item 0103-04: This item was completed by NeuStar and is Closed.
* Item 0103-05: Item is Closed. There were no objections received from SOA vendors.
* Item 0103-06: Item Closed. See attached.



* Item 0103-07: SBC had raised an issue where NXXs are created in the wrong region and the resultant implications in local systems. NANC Change Order 321, which has been accepted, addresses this issue to SBC’s satisfaction. Item is Closed.
* Item 0103-08: Item is Closed. See NEW PIM 23 submitted by CIGRR.
* Item 0103-09: Item is Closed. Charles Ryburn, SBC, reported there is no such regulatory requirement in Texas.
* Item 0103-10: Item remains Open. To be addressed at the March LNPA meeting.
* Item 0103-11: Item remains Open. Reference to NANC Change Order 375 will be removed.
* Item 0802-01: Item is Closed. See attached.



* Item 0902-17: The first draft of the SPID Migration M&P (NANC 323) is due out by NeuStar on 2/21. The use of the OP:INFO message as a potential notification vehicle was investigated and can’t be used. Item remains Open awaiting review and finalization of the M&P.
* Item 1102-04: Item is Closed. NeuStar reported that data captured for the October-January timeframe reflected a 90.71% reduction in CMIP Invalid Departure Time failure aborts as a result of raising the timer from 5 minutes to 15 minutes.
* Item 1202-05: Item is Closed. NeuStar has delivered the draft M&P for the CO Code Re-allocation Process. See new Action Item 0203-09. Comments on draft M&P are due from LNPA members to the Project Executives by 3/10.
* Item 1202-10: Item remains Open, awaiting INC’s response.
* Item 1202-11: Item is Closed. The NAPM/LLC has decided not to pursue the NANC 191/291 edit failure report due to cost.
* Item 1202-15: Item is Closed. No consensus could be reached to increase the Wireline Conflict Timer from 6 to 24 business hours.

# Item 1202-16: Item is Closed. The LNPA decided that the relevant tunable parameters will continue to be referenced in the flows. Their logical name (e.g., T1 Timer) will be referenced in the actual flow diagram, while their complete name (e.g. Subscription Version Old SP Concurrence Request Notification) and current values (wireline – 9 hours and wireless – 1 hour) will be included in the process flow narrative on the right-hand side of the appropriate process step.

* Item 1202-17: Item remains Open. NANC 363 will be discussed at the March LNPA meeting.

New Business:

* AT&T requested that the LNPA determine a specific production implementation date for NANC 323 (Mass Update of SPID). Service Providers are to come to the March LNPA meeting prepared to identify a specific date in 2Q04 when they will be ready to implement NANC 323 functionality in their production systems. Based on the latest date provided, the LNPA will use the date of the next Sunday Maintenance Window as the scheduled production implementation date of NANC 323. It was asked if support of NANC 323 could be made part of the minimum connectivity requirements. This would have to be taken up with the LLC.
* Verizon raised an issue regarding certain providers donating 1K blocks to the

industry pool, and not taking the necessary steps to make their donor switch LNP-capable in order to perform the query-of-last-resort. Gary Sacra will submit a PIM addressing this issue. If applicable, the PIM will suggest possible text for consideration in the INC Thousands Block Assignment Guidelines (TBAG).

* SBC asked if service providers are seeing a lot of modifies (mass updates) during business hours. Verizon said yes. This is impacting other service providers. Verizon said they contacted some of the service providers who responded they were doing asset transfers in some cases. Charles Ryburn, SBC and LNPA Co-Chair, took an action to contact Randy Buffenbarger, NeuStar, to develop a process whereby service providers would notify NeuStar when they are scheduling large mass updates. Similar to the current Large Port Notification, the industry would in turn be notified of this planned activity.

Remaining 2003 Meeting Schedule:

* Wireless will meet on Mondays and Tuesdays, the Architecture Planning Team will meet on Tuesdays from 1pm-5pm local time, and the LNPA will meet on Wednesdays and Thursdays.
* 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.

NOTE that for the April meeting, attendees should fly into Dulles Airport. The NeuStar building is 5 miles north of Dulles Airport.

* 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 New York.
* Jul. Week of 7/7. NANC meets on 7/15. Hosted by Cingular in Chicago.
* Aug. Week of 8/11. No NANC meeting. Hosted by AT&T Wireless in Seattle.
* 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.