LNPA WORKING GROUP

September 2007 Meeting

Final Minutes

|  |  |
| --- | --- |
| Franklin, Tennessee | Host: Verizon Wireless |

**TUESDAY 09/11/07**

Tuesday, 09/11/07, Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Scotty McDonald | Alltel (phone) | Dave Garner | | NeuStar (phone) |
| Tina Plaisance | Alltel (phone) | Mike Panis | | NeuStar |
| Joe Cudo | Alltel (phone) | Linda Peterman | | One Communications |
| Denita Woodall | Alltel (phone) | Mike Whaley | | Qwest |
| Ron Steen | AT&T | Ann Marie | | Qwest (phone) |
| Wayne Heinmiller | AT&T (phone) | Matt Kohly | | Socket (phone) |
| Teresa Patton | AT&T | Michael Klappa | | Sprint Nextel (phone) |
| Mark Lancaster | AT&T (phone) | Carol Frike | | Sprint Nextel |
| Adele Johnson | AT&T Mobility | Lavinia Rotaru | | Sprint Nextel |
| Ron Noseworthy | Cox | Rosemary Emmer | | Sprint Nextel (phone) |
| Chris Brown | Cox | Susan Tiffany | | Sprint Nextel |
| Vicki Goth | Embarq | Dave Cochran | | TelComm Systems (phone) |
| Jane Jackson | Evolving Systems (phone) | Adam Newman | | Telcordia |
| Therese Mooney | Global Crossing (phone) | Pat White | | Telcordia (phone) |
| Crystal Hanus | GVNW (phone) | Paula Jordan | | T-Mobile |
| Dennis Robins | Integra Telecom (phone) | Mohamed Samater | | T-Mobile |
| Angie Beckett | John Staurulakis, Inc. | Heather Tackett | | VeriSign (phone) |
| Randy Buffenbarger | NeuStar | Chipp Nelson | | VeriSign |
| Jim Rooks | NeuStar | Gary Sacra | | Verizon |
| Ed Barker | NeuStar (phone) | Earl Scott | | Verizon (phone) |
| Charles Ryburn | NeuStar (phone) | Kevin McGovern | | Verizon (phone) |
| Syed Saifullah | NeuStar | Jason Lee | | Verizon (phone) |
| Shannon Sevigny | NeuStar Pooling (phone) | Melanie Holland | | Verizon (phone) |
| John Nakamura | NeuStar | Kathy Rogers | | Verizon Wireless |
| Stephen Addicks | NeuStar | Deb Tucker | | Verizon Wireless |
| Marcel Champagne | NeuStar | Tom Zablocki | | Vonage (phone) |
| Paul LaGattuta | NeuStar | Carol Zimmerman | | Wisor OSS Solutions |

Attached are the Action Items assigned at the September, 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 “SEPTEMBER 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 from 1pm to 5pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| July | TBD | 10th-12th | NeuStar | Monterey, California |
| August | TBD | No meeting.  8/7/07 call from 1pm to 4pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| September | TBD | 11th-13th | Verizon Wireless | Franklin, Tennessee |
| October | TBD | No meeting.  10/9/07 call from 1pm to 5pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272# |  |  |
| 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.

07/07 Meeting Minutes Review:

The following changes were made to the DRAFT July 2007 LNPA WG Minutes during the September 2007 meeting. These changes will be reflected in the FINAL July 2007 LNPA WG Minutes.

* Page 23, 1st bullet under NANC 372 Review, change bullet to read, “Sue Tiffany, Sprint Nextel, stated that the ATIS Board of Directors **recommended** the ATIS migration to XML in order to consolidate to a single protocol. She stated that it does not appear that a business case was developed. The OBF Committees began the migration and it is progressing slowly. Action Item 0507-16 remains open.”

08/07 Call Minutes Review:

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

OBF LSOP Committee Update

* No report was given at this meeting.

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

# OBF #99 took place August 13 - 17, 2007.

# The Wireless Technical Subcommittee has had a Co-Chair vacancy for some time now. Now that new technical issues are being worked, the committee agreed that it is time to backfill the position. An election will be held at OBF #100 to fill the vacant position. A nomination has been received for Mubeen Saifullah (Neustar Clearinghouse).

# Regarding the October release of WICIS 3.1.0, the Wireless Committee wishes to remind everyone that as of 00:00:00 (EST) on October 14, 2007, no 3.0.0 messages should be sent.

**Discussion of Open Issues within the Wireless Committee:**

* Issue 3062 - Remove Fax Support From WICIS - a separate Fax document was submitted and discussed. The participants agreed that a separate Data Dictionary should be maintained for the fax forms rather than using a single Data Dictionary for both the fax forms and WICIS. This issue is still open for additional work, but the goal is to put the Issue in Initial Closure at OBF #100.
* Issue 3118 - WICIS Support of Wireline Jeopardy Responses - Neustar submitted a contribution that was reviewed by the participants. The participants agreed that only data elements needed by the wireless carriers would be included in the WICIS implementation of the jeopardy response and that a separate message should be developed to support the jeopardy process. Participants have two action items: 1) review the LSOG fields ATN, CCNA, CC, CNO, EC VER, ESDD, FDT, NPORD, and ORD to determine if they should be added to WICIS. 2) Determine whether to use the existing RCODE/RDET fields to support the jeopardy process or if new data elements JCODE/JDET should be created. Research needs to be done to determine if a separate list of jeopardy responses needs to be used. While doing this research, training and implementation issues must be considered.
* Issue 3144 - Removal of Delay R Codes 6H and 6J - Carriers are unable to respond to R Codes given for delay reasons. These two R Codes will be removed from the Data Dictionary and the D Codes will continue to be used instead. This issue was placed into Initial Closure.
* Issue 3145 - Clean up inconsistencies related to Null values in the WICIS Data Dictionary. It was determined that all fields in the Data Dictionary with Null values should be changed. Null values will be removed from the following fields: DCODE, RCODE, BILLMDINIT and STATE. This issue was placed into Initial Closure.
* Issue 3146 - Modify OLSP and NLSP data dictionary elements for reseller name conditions. The committee agreed to update the Data Dictionary rules in Volume II for NRSELLNM and ORSELLNM to indicate that these fields are mandatory when NLSP/OLSP = ZZZZ, otherwise optional. This issue was placed into Initial Closure.
* The participants discussed a list of questions related to the 4.0.0 implementation scheduled for September 14, 2008. Those questions dealt with white spaces, extraneous fields and xml tags, performance testing, connectivity and the secure exchange of data, and process flow. A contribution will be submitted that will incorporate the information gleaned from the discussion. This contribution will result in a published document to go along with WICIS 4.0.0.
* The MyEclipse Modeling Tool was demonstrated to help the committee understand what will be required for developing the models for WICIS Volume II within the Wireless Technical Subcommittee.

**New Issues introduced and worked:**

* Issue 3171 - PIN/Password Validation with new CPNI Rules - With the implementation of the new CPNI rules (effective 12/20/20007), there is a possibility that providers will have to have a password on every account. This could potentially increase porting fallout rates for Password/Pin. Each company present was asked to research this issue further internally in their companies with both legal and system support teams. This issue was accepted and remains open.

**Intermodal Subcommittee meeting:**

* Issue 3029 - WIR: Wireless Documentation for Mapping Between WICIS and LSOG - Discussion of this Issue was tabled until OBF #100.
* It was mentioned that the LSOP met with UOM-LSR and they jointly decided to release LSOG 15 as the last numbered LSOG release. Any information to be in that release needed to be in Initial Closure by the end of OBF #99. Companies were also asked for their projected dates for retiring EDI since LSOG 15 was also determined to be the last LSOG release where EDI will be supported. A new Issue will be discussed to retire EDI.
* The Senate Hearing on Intermodal Porting was discussed. It is important for both committees to be aware of the Senate activities and potential impacts to the Intermodal Subcommittee.
* The Intermodal Subcommittee participants took an Action Item to perform a mapping analysis of the LSOG 14 and WICIS 4.0.0 to be able to move more quickly if a mandated minimum data set is returned by the Commission. The goal of this effort is to define a minimum set of data elements for intermodal porting. This Action Item is due at OBF #100.
* A separate discussion will be held within each committee to determine whether an effort should be pursued to define a minimum set of data elements for validation. This is also due at OBF #100.
* **Next meeting: OBF 100 will take place week of November 5, 2007 in Clearwater, FL. The Wireless Committee will meet that Monday, Tuesday and Thursday with Wednesday being designated for the Wireless Technical Subcommittee. The next Intermodal Subcommittee meeting is scheduled for Tuesday, Nov 6, 2007 from 2pm to 5pm in conjunction with OBF #100.**

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

* INC Issue 510: Video Relay Service (VRS) Alternatives – INC continues to work on a recommendation report to NANC. The report will be a three-part analysis – the way in which NANP numbers will be assigned and used by VRS providers, and an analysis of two potential database solutions (1. NPAC or 2. DNS-based). The INC VoIP Subcommittee is developing a matrix comparing these 2 solutions for October NANC meeting presentation.
* INC Issues 515, 535, and 543 affect the COCAG and TBPAG and are being worked together. All of these issues address abandoned or returned 1K blocks so a single contribution is now addressing all three.
  + Issue 515: The NAPM LLC has granted permission for an NPAC report. The PA has access to that information.
  + Issue 535 looks to add information on the Part 1A form for contamination levels of returned blocks.
  + Issue 543 updates COCAG for abandoned or returned blocks recognizing the PA’s new access to NPAC data.

All three of these issues make changes to the same sections of the COCAG and TBPAG and address the PA’s use of the NPAC reports. The issues are moving forward with the hope of completion at the upcoming INC meeting in October in Washington, D.C.

* INC Issue 528: Liaison from NIIF/NIOC regarding testing and code opening guidelines. The TBPAG guidelines will reflect that SPs opening a new code in a pooling environment should perform the code opening testing that is referenced in the NIIF guidelines. The issue is now in Initial Closure.
* INC Issue 532: No further information has been received from Kinsale Mobile. Their application for an assignment of a dedicated easily recognizable NPA for charity services has been denied.
* INC Issue 539 addresses clarification of Section 8.3.6. Language has been agreed upon on the activation section of the Part 1B form so that blocks going back to the donor switch will not be unnecessarily activated. The issue is now in Initial Closure and is scheduled to go to Final Closure within a week.
* INC Issue 547 addresses revised NPA relief planning guidelines and provides more information in the guidelines related to NPA splits.

NANC Future of Numbering (FoN) Working Group Update (Adam Newman, Telcordia and FoN Co-Chair):

* Adam Newman, Telcordia and FoN Co-Chair, provided an update of the NANC FoN Working Group.
* The FoN is working on four accepted issues based on their AID form.
  + Analysis of commons and property rights models for the allocation of NANP resources – should we move to an open market model and sell numbers to consumers?
  + Telematics services, e.g., OnStar, and the use of NANP numbers
  + Geographic link to NANP resources and assignment – impact to services
  + New and future services brief – analyzing impact of number assignment policy and exhaust on new and future services

Participants have action items to bring in contributions to move them forward.

* The FoN Co-Chairs have an action item to bring in an AID form for the international use of NANP resources.

Wireless Testing Subcommittee (Mohamed Samater (T-Mobile) and Teresa Patton (AT&T), WTSC Co-Chairs):

* Mohamed Samater (T-Mobile) and Teresa Patton (AT&T), WTSC Co-Chairs, reported that no WICIS 3.1 SP testing has been performed yet, but testing partners are scheduled. The flash cut date for WICIS 3.1 is October 14th. NeuStar and Syniverse have tested ok. NeuStar and VeriSign are scheduled to test next week.

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

* Jim Rooks, NeuStar, reported on the May 2007 APT meeting.

* The APT group reviewed and discussed the following Change Orders at the May 2007 APT meeting:
* NANC 349 – Off-line batch process. Due to concerns remaining over the synchronization of all provider systems and network elements for modifies of routing-related data, it was agreed to move this Change Order to Delete Pending.
* NANC 372 – Alternatives to CMIP protocol. The group has agreed that we need to put together a business case to cost justify any migration to another protocol such as SOAP/XML. If vendors and providers are moving their systems to XML due to the recommended ATIS migration, then it may be prudent to consider an alternative protocol for LNP.
* NANC 419 – Recovery notification prioritization. The Change Order was accepted and will be moved into the full LNPA WG for discussion during Change Management.
* NANC 397 – The group continues to discuss the proposal to support 25K activates in an hour. One area of discussion is a single message that would allow a backout of large activity. The discussion scenario is to allow 100K transactions during an 8-hour period. A second option under discussion is a change in the data model for the interface to associate DPC data with an LRN. A third option is to augment the existing message to allow a larger range.
* NANC 408 – Automation of SPID migration. The group is discussing the possibility of doing the migration over the interface if SVs are not involved.

PIM Discussion:

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



Regarding OBF Issue 2943, the OBF determined that no agreement could be reached within the Intermodal Subcommittee, consisting of ATIS OBF’s Wireless Committee and Local Service Ordering and Provisioning Committee, to resolve this issue. The issue is now in a Tracking state awaiting FCC action on the T-Mobile/Sprint Nextel petition.

Regarding the attached revised PIM 42, and NANC and LNPA WG Issues Matrices, the group reviewed the revisions and accepted them. Gary Sacra, LNPA WG Co-Chair will accept the revisions and upload the documents to the LNPA WG website.

 

* 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.



Regarding OBF Issue 2943, the OBF determined that no agreement could be reached within the Intermodal Subcommittee, consisting of ATIS OBF’s Wireless Committee and Local Service Ordering and Provisioning Committee, to resolve this issue. The issue is now in a Tracking state awaiting FCC action on the T-Mobile/Sprint Nextel petition.

Regarding the attached revised PIM 44, and NANC and LNPA WG Issues Matrices, the group reviewed the revisions and accepted them. Gary Sacra, LNPA WG Co-Chair will accept the revisions and upload the documents to the LNPA WG website.

 

* 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.

Regarding the attached manual process for the PIM 51 cleanup in NPAC, Gary Sacra, LNPA WG Co-Chair, notified the NAPM LLC that the LNPA WG reached consensus at their May 2007 meeting to recommend to the LLC that they request a Statement of Work (SOW) for the manual process from NeuStar. This recommendation will be discussed at the September 2007 NAPM LLC meeting.



* 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 and continues to be worked. The subcommittee will propose minor changes to the flows and narrative.

Sue Tiffany, Pre-port Subcommittee Co-Chair, stated that the intent of the original PIM submitted by Comcast was to explore ways to shorten the overall porting interval. The current charge of the Subcommittee is to explore the pre-port interval. With respect to the analysis ongoing by the Pre-Port Subcommittee to identify process improvements in the pre-port interval, Service Providers are to identify any process improvements they have made within their respective companies’ internal LNP process and come to the November 2007 LNPA WG meeting prepared to discuss. All are encouraged to join the Pre-port Subcommittee.

With regard to major pre-port issues experienced by service providers, Verizon stated that it is the failure of a number of providers to return the FOC within 24 hours. T-Mobile stated that a provider requires an LOA or verbal confirmation from the end user before they will confirm a port. T-Mobile has also experienced a VoIP provider that will not port a number out if it was not ported into them.

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



This issue is now in a tracking state awaiting inclusion in the next WICIS Release beyond 4.0, which will likely be deployed sometime in 2009. NeuStar Clearinghouse will submit a contribution.

* 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.



The LNPA WG has received permission from the NIIF to put the link to their Guidelines for Reporting LNP Troubles document in our Best Practices. Gary Sacra, LNPA WG Co-Chair, will revise the Best Practices document to add PIM 56 and its Suggested Resolution and the NIIF document link as Item 51. PIM 56 was closed at the September 2007 LNPA WG meeting.

* 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 revised checklist was reviewed by Sue Tiffany, Sprint Nextel, at the September 2007 LNPA WG meeting.



Sue Tiffany, Sprint Nextel, will revise the attached checklist per the following:

1. Add the following text: “An authorization form should be executed or in place with the Reseller, or as an addendum to existing contracts, if the issue is not already covered in existing contracts (see the attached sample). If neither the authorization form nor an addendum is in place, then contact your legal department for direction.”



1. Embed the attached sample Authorization Form into the document.
2. Change “Tiger Team” to “dedicated task force team.”

Gary Sacra, LNPA WG Co-Chair, will revise the LNPA WG Best Practices document to add PIM 57 and its Suggested Resolution as Item 52,

* PIM 61 – This PIM, submitted by South Central Rural Telephone Coop. Corp. Inc., Duo County Telephone Cooperative Corp., Inc, North Central Rural Telephone Coop., and PNG Telecommunications, seeks to have implemented a VPN access solution for LTI users.



Gary Sacra, LNPA WG Co-Chair, has sent a recommendation to the NAPM LLC to request an SOW from NeuStar for a VPN access solution for LTI users. This recommendation will be discussed at the September 2007 NAPM LLC meeting. PIM 61 is now in a Tracking state.

* PIM 62 – This PIM, submitted by Verizon Wireless, seeks to address the duration of some porting outages due to planned service provider maintenance, and the notification requirements for planned maintenance outages.



It was stated that this PIM is not meant to address maintenance during the standard Sunday window. It was agreed to add PIM 62 to the LNPA WG Best Practices document. Gary Sacra, LNPA WG Co-Chair, will add PIM 62 and its Suggested Resolution as Item 53. PIM 62 was closed at the September 2007 LNPA WG meeting.

* NEW PIM 63 – This PIM, submitted by T-Mobile and Verizon Wireless, seeks to address instances where some carriers are requiring that the customer have service for 30 days before they will approve a port out request.



PIM 63 was accepted at the September 2007 LNPA WG meeting. Paula Jordan, T-Mobile, will revise the PIM to add applicable FCC Order cites. The objective of the submitters of this PIM is to place the issue and its Suggested Resolution in the Best Practices document.

* NEW PIM 64 – This PIM, submitted by VeriSign, proposes a new tunable parameter in NPAC to allow the suppression of LTI-initiated transactions to the mechanized SOAs.



PIM 64 was accepted at the September 2007 LNPA WG meeting. Chipp Nelson, VeriSign, will submit a NANC Change Order to address the issue identified in PIM 64.

* NEW PIM 65 – This PIM, submitted by VeriSign, proposes a priority scheme in NPAC for the notifications generated by the disconnection of pooled thousands blocks.



PIM 65 was accepted at the September 2007 LNPA WG meeting. It was stated that range notifications could provide some relief. Chipp Nelson, VeriSign, will submit a NANC Change Order (not related to NANC 419) to address the issue identified in PIM 65.

FCC Staff Action Items on DPC Data Changes (All):



* The group reviewed the attached action items assigned to the LNPA WG by the FCC Wireline Competition Bureau Staff. These action items are related to FCC Docket RM-11299, which addresses the “Cost Causer” petition by the former BellSouth and subsequent ex parte on “Cost Causer” by Verizon.
* For Action Items 1, 2, and 3, it was stated that LERG 1 and NECA can be used as sources to categorize providers based on their OCN.
* In a CNAM TCAP message redirecting scenario for Action Item 4, it was stated that the new CNAM DB provider would have to override their data to avoid a looping issue. Also, the provider that launched the TCAP query might not have a business arrangement to receive signaling from the new DB provider. There could also be SS7 engineering issues.
* It was stated that any degradation of service issues resulting from redirecting the TCAP messages would violate the FCC order on LNP.
* Gary Sacra, LNPA WG Co-Chair, will issue the following action item to the LNPA WG:

“LNPA WG Participants are to consult internally with their respective SS7 subject matter experts to determine if redirecting at their ingress SS7 gateway the incoming TCAP messages in support of CLASS and Inter-switch Voice Messaging Message Waiting Indicator (ISVM MWI) services is feasible when a provider changes their preferred ingress gateway DPC. This will be discussed on the October 9th LNPA WG conference call. Results of this internal analysis should be forwarded to Gary Sacra and Paula Jordan, LNPA WG Co-Chairs, no later than close of business, Friday, October 5th.”

**WEDNESDAY 09/12/07**

Wednesday, 09/12/07, Attendance:

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| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Tina Plaisance | Alltel (phone) | Dave Garner | | NeuStar (phone) |
| Joe Cudo | Alltel (phone) | Mike Panis | | NeuStar |
| Ron Steen | AT&T | Linda Peterman | | One Communications |
| Teresa Patton | AT&T | Mike Whaley | | Qwest |
| Mark Lancaster | AT&T (phone) | Michael Klappa | | Sprint Nextel (phone) |
| Adele Johnson | AT&T Mobility | Lavinia Rotaru | | Sprint Nextel |
| Ron Noseworthy | Cox | Rosemary Emmer | | Sprint Nextel (phone) |
| Chris Brown | Cox | Susan Tiffany | | Sprint Nextel |
| Vicki Goth | Embarq | Colleen Collard | | Tekelec (phone) |
| Jane Jackson | Evolving Systems (phone) | Dave Cochran | | TelComm Systems (phone) |
| Dennis Robins | Integra Telecom (phone) | Adam Newman | | Telcordia |
| Angie Beckett | John Staurulakis, Inc. | Pat White | | Telcordia (phone) |
| Randy Buffenbarger | NeuStar | Paula Jordan | | T-Mobile |
| Jim Rooks | NeuStar | Mohamed Samater | | T-Mobile |
| Ed Barker | NeuStar (phone) | Chipp Nelson | | VeriSign |
| Charles Ryburn | NeuStar (phone) | Gary Sacra | | Verizon |
| Syed Saifullah | NeuStar | Earl Scott | | Verizon (phone) |
| Shannon Sevigny | NeuStar Pooling (phone) | Jason Lee | | Verizon (phone) |
| John Nakamura | NeuStar | Kathy Rogers | | Verizon Wireless |
| Stephen Addicks | NeuStar | Deb Tucker | | Verizon Wireless |
| Marcel Champagne | NeuStar | Tom Zablocki | | Vonage (phone) |
| Paul LaGattuta | NeuStar | Carol Zimmerman | | Wisor OSS Solutions |
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**MEETING MINUTES:**

Recap of FCC Staff Action Items on DPC Data Changes (All):

* The group recapped the highlighted action item sent out last night for discussion at the October 9th conference call.



LNPA WG Participants are to consult internally with their respective SS7 subject matter experts to determine if redirecting at their ingress SS7 gateway the incoming TCAP messages in support of CLASS and Inter-switch Voice Messaging Message Waiting Indicator (ISVM MWI) services is feasible when a provider changes their preferred ingress gateway DPC. This will be discussed on the October 9th LNPA WG conference call. Results of this internal analysis should be forwarded to Gary Sacra and Paula Jordan, LNPA WG Co-Chairs, no later than close of business, Friday, October 5th.

Review of NP Best Practices Document (AIs 0707-06, 07, 08) – All:



Action Item 0707-06: Gary Sacra, LNPA WG Co-Chair, will send the attached revised NP Best Practices document to Mohamed Samater, T-Mobile, for inclusion on the LNPA WG’s website, after removal of the yellow highlighting. See related Action Item 0707-08.

Action Item 0707-07: Gary Sacra, LNPA WG Co-Chair, will send a notice to Tom Koutsky, NANC Chair, that consensus was reached in the LNPA WG to add the resolutions of PIMs 32 and 50, and the 24 hour FOC issue, to the NP Best Practices document.

Action Item 0707-08: Upon receipt of the revised NP Best Practices document from Gary Sacra, LNPA WG Co-Chair, Mohamed Samater, T-Mobile, will have the HTML version of the document uploaded onto the LNPA WG’s website. See related Action Item 0707-06.

* The group reviewed and accepted the revisions to the Best Practices document. Item 50 (PIM 60) was added.
* Action Items 0707-06, 07, and 08 were closed.

LSMS Capacity Report (NeuStar):



Action Item 0707-01: Related to the attached presentation given by NeuStar at the July 2007 LNPA WG meeting on SPID stability, NeuStar will provide an explanation at the September 2007 meeting as to why the quantities of outbound flow control events are not cause for concern.

* In response to Action Item 0707-01, NeuStar stated that less than one-tenth of 1% of downloads in July were in flow control. The worst SPID showed 50% improvement from June to July. Action Item 0707-01 is closed.
* NeuStar recommended discontinuing this monitoring due to improvements realized. The LNPA WG accepted this recommendation.
* NeuStar also recommended doing a 15K test in the October timeframe. There were no objections from the group. NeuStar will provide the last TN in each region as quickly as possible after the download. The test will be performed on October 3rd at 4am eastern. NeuStar will send out a notification on the Cross-Regional distribution list. SPs will need to provide the timestamp for the last TN in each region for when it was propagated down to the SCP. NeuStar will report out on the results similar to the 10K test.
* A provider requested a SPID migration blackout for November 11th. There is nothing currently scheduled in any region to date. There were no objections for a November 11th SPID migration blackout in all regions.

Change Management Discussion (NeuStar):



* NANC 414 (Action Items 0507-13, 0707-13)

Action Item 0507-13: Regarding the attached PIM 51 and NANC 414, Service Providers are to develop their OCN to SPID relationship on a region basis for discussion at the July 2007 LNPA WG meeting.

 

0707-13: Regarding the attached NANC 414, Service Providers are to submit their SPID to OCN relationships to Steve Addicks ([Stephen.addicks@neustar.biz](mailto:Stephen.addicks@neustar.biz)), indicating if they have any cases where an OCN is associated with more than one SPID.



* + NeuStar has received 11 responses on the OCN to SPID relationship. These are from major carriers that attend the LNPA WG.
  + Action item 0707-13 remains open. Action Item 0507-13 is closed.
  + After the LNPA WG receives a response from the NAPM LLC, if it is determined that we are going forward with an SOW, we will send out a request over the X-Regional to all providers to provide their OCN to SPID relationships.
  + It was determined that a requirement for development will be a many-to-many relationship.
* Event ID Rollover Issue (Action Items 0507-11, 0507-03)

Action Item 0507-11: Regarding any local system changes required to address the Event ID rollover issue as defined in NANC 413, Local System Vendors and Service Providers are to provide a monthly status on the implementation of this change until complete. See related Action Item 0507-03.

Action Item 0507-03: Related to Action Item 0507-11, at a future TBD date, NeuStar will contact those providers from which the LNPA WG has received no status reports to determine whether they also have made the necessary local system update to resolve the Event ID rollover issue as defined in NANC 413.

* + Tekelec stated that their release will be delivered in September for first deployment.
  + Action items stay open.
* NANC 299 (Action Item 0507-14)



Action Item 0507-14: NPAC Release 3.3 implemented a heartbeat message that contains a sequence number that NPAC treats independently from the sequence number contained in the LNPAccessControl. Some provider SOA and LSMS systems consider them to be the same sequence number. NeuStar will add flags in the SP profile in NPAC indicating whether or not the provider systems consider them to be the same and react accordingly. This is planned for an NPAC Point Release in June. Service Providers are to check to see if they support the Application Level Heartbeat message and ensure that their profile in NPAC is consistent.

* NeuStar stated that a patch has been put in place in the NPAC. NeuStar has also contacted those providers who were not working properly. They have closed the loop on all. Action Item 0507-14 is closed.
* Action Item 0605-22: At the June (2005) meeting, NeuStar reported that some protocols are being used by provider platforms for traffic communication with the NPAC that are not supported in the requirements for the interface. NeuStar wants to open up a dialogue to tighten down on the protocols being used. A firewall for security has been put in place as part of the Linux migration. Supported protocols are listed in the attached document, e.g. CMIP. Examples of protocols being used that are not supported in requirements for the interface include Echo protocol on Port 7. The NeuStar security group has deemed this a risk area that needs to be eliminated. Implementation of controls is scheduled for the end of 2006 to enable those SPs time to adjust to the change in tightening down on those allowed protocols. NeuStar wants to open up a dialogue to see if there are any protocols that they have missed so they can be included. Service Providers and Local System Vendors are to review the document and come prepared in July to discuss.

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* + NeuStar stated that only one provider remains with a non-supported protocol. NeuStar is working with them.
  + Action Item 0605-22 remains open.
* Review of NANC 408 revisions:
  + We will develop requirements to automate the concurrence process. In the concurrence process, we need to account for SPID migrations that result from events such as buying up a company and there is no individual in that company (SPID A) to concur on the migration.
  + For those migrations where no SVs are involved, providers will be offered the opportunity to have the migration take place immediately upon concurrence if the LERG-effective date is passed. An example would be cases where the wrong SP has opened a code in the NPAC.
  + Service Providers with local systems that they have developed are to determine if modifying the SPID attribute for network data with an Action over the interface would be a problem in their respective systems.
  + All Service Providers are to provide input on modifying SPID over the interface for involved SVs.
  + Local System Vendors are to:

1. determine if modifying the SPID attribute for network data with an Action over the interface would be a problem in their respective systems.
2. provide input on modifying SPID over the interface for involved SVs.
   * It was stated that there is no technical reason why we could not modify the SPID attribute for involved SVs over the interface. The concern expressed previously was potential volume. A cap could be set on the quantity that could be done over the interface.
   * NANC 408 was accepted.

* Review of NANC 419:
  + Question – On the SP Profile, do we want just a single recovery-related tunable or a tunable for each individual recovery-related activity, e.g., activate, modify, disconnect. Is there a business need to have them separated out? Lacking a business need, it would be simpler and less confusing to have a single tunable. Service Providers are to determine if they prefer on the SP profile just a single recovery-related tunable or a tunable for each of the 7 individual recovery-related activities, e.g., activate, modify, disconnect.
* NANC 397:
  + It was stated that as an alternative to developing software for selection criteria to do mass modifies more efficiently, we could make the systems go faster, i.e., 25K per hour. This is a fundamental question in order to move the Change Order forward.
  + There was no objection to a capacity increase to 25K per hour as the proposed solution in Change Order 397.
  + Efficiency improvements discussed may be addressed in a separate new Change Order.

2007 and 2008 Meeting/Call Schedule (All):

 

* Telcordia will host in January 2008 in Scottsdale, Arizona.
* T-Mobile will host in November 2008 in Irvine, California.
* The 2008 face-to-face meeting schedule will be for 2 days on Tuesdays and Wednesdays.

Discussion of Need for October Conference Call (All):

#### It was agreed to hold a call on October 9th from 1pm to 5pm eastern. The bridge number is 888-412-7808 PIN 23272#

* The agenda will consist of:
  + Finalization of the FCC Action Item Report
  + Status of Event ID Rollover Issue
  + 2008 Meeting and Call Schedule/Hosts/Locations
  + New Business

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

* The next NANC meeting was scheduled for October 10th.
* The LNPA WG report to NANC will consist of:
* FCC Action Item Report
* Status of PIMs

Review of July 2007 LNPA WG Action Items:



**July 2007 LNPA WG Action Items:**

* Item 0707-01: This item has been completed and is Closed.
* Item 0707-02: This item has been completed and is Closed.
* Item 0707-03: This item has been completed and is Closed.
* Item 0707-04: This item has been completed and is Closed.
* Item 0707-05: This item has been completed and is Closed.
* Item 0707-06: This item has been completed and is Closed.
* Item 0707-07: This item has been completed and is Closed.
* Item 0707-08: This item has been completed and is Closed.
* Item 0707-09: This item has been completed and is Closed.
* Item 0707-10: This item has been completed and is Closed.
* Item 0707-11: This item has been completed and is Closed.
* Item 0707-12: This item has been completed and is Closed.
* Item 0707-13: This item remains Open.

**July 2007 APT Action Items:**

* Item 0707-14: This item has been completed and is Closed.
* Item 0707-15: This item has been completed and is Closed.
* Item 0707-16: This item remains Open
* Item 0707-17: This item remains Open.
* Item 0707-18: This item remains Open.

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

* Item 0605-22: This item remains Open.
* Item 0706-06: This item remains Open.
* Item 0906-12: This item remains Open.
* Item 0906-14: This item remains Open.
* Item 0307-17: This item has been completed and is Closed.
* Item 0507-03: This item remains Open.
* Item 0507-07: This item has been completed and is Closed.
* Item 0507-11: This item remains Open.
* Item 0507-13: This item has been completed and is Closed.
* Item 0507-14: This item has been completed and is Closed.

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

* Item 0507-16: This item remains.

Review of August 2007 Action Items:



**August 2007 LNPA WG Action Items:**

* Item 0807-01: This item has been completed and is Closed.
* Item 0807-02: This item has been completed and is Closed.

Unfinished/New Business:

* The group reviewed the attached revised Reseller Bankruptcy Plan and made additional revisions.



**THURSDAY 09/13/07**

**ARCHITECTURE PLANNING TEAM (APT) MEETING**

Thursday, 09/13/07, Attendance:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Company** | **Name** | **Company** | | |
| Ron Steen | AT&T | Dave Garner | | NeuStar (phone) |
| Teresa Patton | AT&T | Mike Panis | | NeuStar |
| Ron Noseworthy | Cox | Linda Peterman | | One Communications |
| Chris Brown | Cox | Mike Whaley | | Qwest |
| Vicki Goth | Embarq | Lavinia Rotaru | | Sprint Nextel |
| Angie Beckett | John Staurulakis, Inc. | Susan Tiffany | | Sprint Nextel |
| Lynette Khirallah | NetNumber (phone) | Colleen Collard | | Tekelec (phone) |
| Randy Buffenbarger | NeuStar | Dave Cochran | | TelComm Systems (phone) |
| Jim Rooks | NeuStar | Adam Newman | | Telcordia |
| Ed Barker | NeuStar (phone) | Pat White | | Telcordia (phone) |
| Charles Ryburn | NeuStar (phone) | Paula Jordan | | T-Mobile |
| Syed Saifullah | NeuStar | Mohamed Samater | | T-Mobile |
| John Nakamura | NeuStar | Chipp Nelson | | VeriSign |
| Stephen Addicks | NeuStar | Gary Sacra | | Verizon |
| Marcel Champagne | NeuStar | Earl Scott | | Verizon (phone) |
| Paul LaGattuta | NeuStar | Jason Lee | | Verizon (phone) |
|  |  | Kathy Rogers | | Verizon Wireless |
|  |  | 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.

NANC 372 Review (Action Items 0507-16, 0707-17, 0707-18) (All):

Action Item 0507-16: Regarding the discussion of NANC 372, which proposes investigation of an alternative to the CMIP protocol, Sue Tiffany, Sprint Nextel, and Deb Tucker, Verizon Wireless, are to investigate if ATIS developed a business case to justify the migratation from CORBA to SOAP/XML.

* + Deb Tucker stated that she did a search of the ATIS website in order to investigate Action Item 0507-16. The ATIS TOPS Council established a Data Interchange Focus Group to address the multiple standards and message formats and standards interoperability. The recommendation was to migrate to SOAP/XML. It is left up to companies as to when they would move to XML.

Action Item 0707-17: Regarding NANC 372, Alternatives to the CMIP interface, Local System Vendors are to determine if their respective companies have embraced the ATIS migration to XML and, if so, what are the implications of staying on CMIP for the LNP application. See related Action Item 0707-18.

Action Item 0707-18: Regarding NANC 372, Alternatives to the CMIP interface, Service Providers are to determine if their respective companies have embraced the ATIS migration to XML and, if so, what are the implications of staying on CMIP for the LNP application. See related Action Item 0707-17.

* + AT&T stated that they may retire their EDI and move to XML in the 2008/2009 timeframe.
  + Verizon stated that they are not necessarily planning to migrate legacy systems to XML, but next generation systems are XML and any functions that interwork with both legacy and next generation systems are XML. Qwest and the southeast portion of AT&T provided this same feedback.
  + Embarq stated that they have no burning need to migrate to XML at this time.
  + Sprint Nextel and T-Mobile have migrated from CORBA to XML.
  + It was suggested that we should spend some time in each APT meeting on discussions of a migration from CMIP to XML.
  + If we determine that we will migrate from CMIP to XML, we would need to address messaging and message content, security, session establishment (e.g., Web services [connectionless] approach to sessions/communications), performance, digital signatures, error handling, audit/large message administration. This would not be a flash cut so both CMIP and XML would have to be supported in NPAC and in local systems.
  + The group agreed to move forward as if we are going to migrate to SOAP/XML to determine impacts, requirements, and to determine if we can build a business case.
  + Action Items 0507-16, 0707-17, 0707-18 are closed.

NANC 397 Review (Action Items 0707-14, 0707-16) (All):

Action Item 0707-14: Regarding NANC 397, which proposes increased throughput requirements, NeuStar is to coordinate among industry participants and provide a descriptive writeup for the September 2007 APT meeting on the following proposed alternatives:

1. a single backout message approach that would identify modified SVs that were tagged. Backward compatibility and the possibility that not all providers would necessarily implement such an approach should be considered as well.
2. a data model that associates DPC data with an LRN and broadcasting that as network data as opposed to at the TN level.
3. augmentation of the existing range message to enable a list of TNs, not necessarily contiguous, to be modified.

Action Item 0707-16: Regarding NANC 397, which proposes increased throughput requirements, all APT Participants are to determine if there is a benefit to a single backout message approach that would identify modified SVs that were tagged. Backward compatibility and the possibility that not all providers would necessarily implement such an approach should be considered as well.

* + The group agreed that we will add capacity to the current requirements using the same messages we have today as opposed to new messages. Any new messages will be addressed in a separate Change Order.
  + It was stated that a single backout message approach would place a large burden on the LSMS.
  + DPC to single LRN approach
    - There are a number of carriers who associate different DPCs with the same LRN.
    - We will carry this approach forward in a separate Change Order.
    - It was stated that this approach would have a significant conversion effort.
  + It was agreed that the TN range and TN range list approach will be addressed in a separate Change Order.
  + It was stated that the selection criteria approach has capacity and resource issues.
  + It was agreed that a capacity approach higher than 25K in an hour will not be considered. 25K will be the cap.
  + The assumption for now will be no more than 4 regions doing 25K in an hour at the same time.
  + Action Items 0707-14 and 0707-16 are closed.

Action Item Review/Topics/Agenda for Discussion at Next Meeting:

Next APT agenda for November 2007 meeting:

* NANC 372 Review
* NANC 397 Review
* Split-off Change Orders from NANC 397 after they are accepted in full LNPA WG.

***Next LNPA WG Conference Call … October 9, 2007, 1pm – 5pm Eastern,***

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

***Next LNPA WG Meeting …******November 13-15, 2007, Ft. Lauderdale, Florida –***

***Hosted by Sprint Nextel***