LNPA WORKING GROUP

May 8-9, 2012 Meeting

Final Minutes

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| Key West, Florida | Host: Neustar |

##### LNPA WORKING GROUP ARCHITECTURE PLANNING TEAM (APT) DISCUSSION:

**TUESDAY 05/08/12**

Tuesday, 05/08/12, Attendance:

| **Name** | **Company** | **Name** | **Company** | | |
| --- | --- | --- | --- | --- | --- |
| Tracey Guidotti | AT&T | Marcel Champagne | | Neustar |
| Ron Steen | AT&T | Dave Garner | | Neustar |
| Teresa Patton | AT&T | Kristen Hamilton | | Neustar |
| Lonnie Keck | AT&T Mobility | Syed Ali | | Neustar |
| Renee Dillon | AT&T Mobility | Mubeen Saifullah | | Neustar Clearinghouse |
| Matt Nolan | Bright House | Shannon Sevigny | | Neustar Pooling (phone) |
| Marian Hearn | Canadian LNP Consortium | Rosemary Emmer | | Sprint Nextel |
| Jan Doell | CenturyLink (phone) | Jeff Sonnier | | Sprint Nextel |
| Karin Fahrenbruch | CenturyLink (phone) | Suzanne Addington | | Sprint Nextel |
| Rick Dipaolo | CenturyLink (phone) | Ann Fenaroli | | Sprint Nextel (phone) |
| Brenda Bloemke | Comcast (phone) | Nancy Conant | | Synchronoss |
| Devang Naik | DSET | Rosalee Pinnock | | Syniverse |
| Jim Seigler | DSET | Ramesh Chellamani | | Tekelec |
| Linda Peterman | Earthlink Business | Joel Zamlong | | Ericsson/Telcordia |
| Crystal Hanus | GVNW (phone) | Pat White | | Ericsson/Telcordia |
| Kim Isaacs | Integra (phone) | Lisa Marie Maxson | | Ericsson/Telcordia (phone) |
| Bridget Alexander | John Staurulakis, Inc. (phone) | Adam Newman | | Ericsson/Telcordia |
| Karen Hoffman | John Staurulakis, Inc. (phone) | John Malyar | | Ericsson/Telcordia |
| Eric Monkelien | Level 3 (phone) | George Tsacnaris | | Ericsson/Telcordia |
| Lynette Khirallah | NetNumber (phone) | Kayla Sharbaugh | | Ericsson/Telcordia (phone) |
| Michael O’Connor | Neustar | Steven Koch | | Ericsson/Telcordia (phone) |
| Lavinia Rotaru | Neustar | Paula Jordan | | T-Mobile |
| Pamela Connell | Neustar | Gary Sacra | | Verizon |
| Jim Rooks | Neustar | Jason Lee | | Verizon (phone) |
| Paul LaGattuta | Neustar | Deb Tucker | | Verizon Wireless |
| Stephen Addicks | Neustar | Imanu Hill | | Vonage |
| John Nakamura | Neustar | Darren Krebs | | Vonage |
| Larry Vagnoni | Neustar | Traci Brunner | | Windstream |
| Ed Barker | Neustar (phone) | Dawn Lawrence | | XO Communications |
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NOTE: ALL APT ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “MAY\_8\_ 2012 LNPA WG APT ACTION ITEMS” FILE ISSUED IN A SEPARATE E-MAIL FROM THESE MINUTES AND ATTACHED BELOW.

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**MEETING MINUTES:**

**2012 LNPA WG Meeting/Call Schedule:**

Following is the current schedule for the 2012 LNPA WG meetings and calls.

| **MONTH**  **(2012)** | NANC MEETING DATES | LNPA WG  **MEETING/CALL**  **DATES** | HOST COMPANY | MEETING LOCATION |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| January |  | 10th-11th | Telcordia | Scottsdale, Arizona |
| February |  | No meeting or call. |  |  |
| March |  | 13th-14th | Comcast | Denver, Colorado |
| April |  | No meeting or call. |  |  |
| May |  | 8th-9th | Neustar | Key West, Florida |
| June |  | No meeting.  6/12/2012 APT call from 11am to 1pm Eastern time, dial-in bridge number is 888-412-7808, pin 23272#. |  |  |
| July |  | 10th-11th | Canadian LNP Consortium | Mont Tremblant Quebec, Canada |
| August |  | No meeting.  8/7/2012 call if necessary. |  |  |
| September |  | 11th-12th | CenturyLink & Tekelec | Denver, Colorado |
| October |  | No meeting.  10/9/2012 call if necessary |  |  |
| November |  | 6th-7th | Sprint Nextel | Overland Park, Kansas |
| December |  | No meeting.  12/11/2012 call if necessary |  |  |
|  |  |  |  |  |

* Continuing evaluation during 2012 will determine if interim conference calls are needed or if the decision to meet face-to-face every other month should be revisited.

March 13, 2012 APT Meeting Minutes Review:

* No changes were made to the DRAFT March 13, 2012 APT meeting minutes, and they were approved as FINAL.

APT Test Plan Review Team Update – John Nakamura, Neustar:

* Review of SOW 24 Test Requirements

**Action Item 031312-APT-01:** Neustar will revise the attached SOW 24 testing requirements based on changes discussed at the March 13, 2012 APT meeting for review at the May 8, 2012 APT meeting.

 

* Neustar reviewed the proposed revisions to the SOW 24 test requirements (see attachments above which reflect changes in revisions mode and a clean version).
* The revisions reflect agreements reached by the Test Plan Sub-team that reflect requirements that vendors perform turn-up tests and regression tests in addition to Service Providers instead of ITP.
* There were no objections to making these changes final. Neustar will submit these revisions to SOW 24 to the NAPM LLC.
  + - Review of Current Turn-up Test Plan Matrix

  

* John Nakamura, Neustar, reported that a conference call was held to review abnd revise as necessary the SV sections in the turn-up test plan. A follow-up call will be scheduled to get through the SV sections. A review will be then held in the APT.

**Action Item 051011-16:** Neustar and Telcordia will create a list of Vendor (ITP) and Service Provider regression test cases, identify which are Vendor (ITP) and which are regression or which are both, determine which are conditional, and which apply to the following four categories:

1. New Service Provider and New Vendor,
2. New Service Provider and Experienced Vendor,
3. Experienced Service Provider and New Vendor,
4. Experienced Service Provider and Experienced Vendor.

The status of this work effort will be provided on the June 14, 2011 APT conference call and at the APT portion of the July 2011 LNPA WG meeting.

**Action Item 091311-APT-02:** As a part of the effort to review and update the Vendor ITP and Service Provider Turn-up Test Plans, the APT Test Plan Sub-team will identify to the full LNPA WG any functionality that is recommended for consideration to be sunsetted.

* Both Action Item 051011-16 and Action Item 091311-APT-02 remain open.

Discussion of NPAC Support of IPv6 (NANC 447) – All:

**Action Item 031312-APT-02:** Neustar will add a note in the attached NANC 447 Change Order stating that dual stacks (IPv4 and IPv6) will be supported.



* Neustar reviewed the revision to NANC 447 per Action Item 031312-APT-02. The added note was accepted by the APT.
* Action Item 031312-APT-02 was closed.
* Neustar reported that they are developing an SOW in response to the NAPM LLC’s request.

Sunset of Non-EDR Support – All:

**Action Item 031312-APT-03:** Neustar will contact directly those users that request BDDs with pooled SVs to let them know that support of non-EDR will sunset at the end of 2Q2012. Neustar will provide feedback at the May 8, 2012 APT meeting.



* Neustar reported that none of the users referenced in Action Item 031312-APT-03 had any issues or objections to sunsetting EDR at the end of 2Q2012.
* Neustar reported that they are developing an SOW.
* Action Item 031312-APT-03 was closed.

Discussion of Alternative Interface (NANC Change Order 372) – All:

**Action Item 031312-APT-04:** Regarding NANC 372 – Alternative NPAC Interface – Neustar will create a tracking document of key questions that need answered and what decisions are made in order to focus our ongoing discussions. Pros and cons of each needed decision will be included in the document, e.g., JSON vs. XML.

** **

* Service Providers agreed that we would move forward based on the current working assumptions. If we need to change anything down the road as we get deeper into requirements development, we will address it at that time.
* Neustar reviewed the working assumptions. Neustar does not see a need for a SOAP wrapper. No objections to HTTPS were voiced.
* XML vs. JSON:
  + XML has much stronger typing. JSON is just defined as a string. JSON would allow different interpretations of things such as SP name. JSON lacks the strong typing of XML. Telcordia asked if there were any backwards compatibility issues with XML. Neustar responded that new fields could be added as optional data in order to support backward compatibility. Telcordia said that both are defined similarly and JSON is lighter weight and could have some advantages in terms of backward compatibility but can support moving forward with either XML or JSON. No objections to moving forward with XML at this time were voiced.
* No objections to moving forward with a connectionless interface were voiced.
* No objections to moving forward with a session-less interface were voiced.
* Push vs. Pull:
  + Neustar raised concerns about meeting response time and throughput requirements in a pull environment. Pull does not require the LSMS to act as a server and have the SP’s firewall open to receive pushed downloads. An SP asked if a pull could increase the possibility of out-of-synch conditions. Neustar responded that it could dependent on the variations in SP intervals for pulls. It was stated that the LNPA WG could set the minimum and maximum pull intervals. An SP stated that they are more comfortable with push due to its compatibility with current SLRs. No objections to the current working assumption of push were voiced.
* No objections to Neustar’s proposal for interface security were voiced. The working assumption is that end-point security will be achieved by enforcing HTTPS client-authentication during the connection establishment phase where NPAC generated keys are distributed to SOAs/LSMSs to facilitate HTTPS client-authentication.
* No objections to retry until successful delivery as opposed to SWIM recovery were voiced.
* Regarding the continuing development of the technical requirements for NANC Change Order 372 – Alternative NPAC Interface – Neustar will develop a list of items that need to be completed and a proposed timeline to complete each. This will be reviewed and discussed at the July 2012 APT meeting.

APT Action Items Not Previously Discussed in Agenda – All:

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Review of March 13, 2012 LNPA WG APT Action Items:

**March 13, 2012 LNPA WG APT Action Items:**

* Item 031312-APT-01: This item has been completed and is Closed.
* Item 031312-APT-02: This item has been completed and is Closed.
* Item 031312-APT-03: This item has been completed and is Closed.
* Item 031312-APT-04: This item has been completed and is Closed.

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

* Item 051011-16: This item remains Open.
* Item 091311-APT-02: This item remains Open.

Discussion of Need for Interim APT Call(s) – All:

* Test plan calls will be scheduled separately.
* A full APT call will be held on June 12, 2012 from 11am to 1pm Eastern to continue the NANC 372 discussion. The dial-in bridge number is 888-412-7808, pin 23272#.

***Next APT Call…June 12, 2012 from 11am to 1pm Eastern…Dial-in bridge number is 888-412-7808, pin 23272#***

***Next APT Meeting …Part of the July 10-11, 2012 LNPA WG Meeting…***

***Location…*** ***Mont Tremblant Quebec, Canada …***

***Hosted by Canadian LNP Consortium***