LNPA WORKING GROUP

Architecture Planning Team

January 8, 2013 Meeting

Final Minutes

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| Scottsdale, AZ | Host: Ericsson/Telcordia |

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

**TUESDAY 01/08/2013**

Tuesday, 01/08/2013, Attendance:

| **Name** | **Company** | **Name** | **Company** | | |
| --- | --- | --- | --- | --- | --- |
| Ron Steen | AT&T | Ed Barker | | Neustar (phone) |
| Teresa Patton | AT&T (phone) | Lavinia Rotaru | | Neustar (phone) |
| Mark Lancaster | AT&T (phone) | Jim Rooks | | Neustar |
| Lonnie Keck | AT&T Mobility | Paul LaGattuta | | Neustar |
| Renee Dillon | AT&T Mobility | Stephen Addicks | | Neustar |
| Matt Nolan | Bright House (phone) | John Nakamura | | Neustar |
| Cristy Permenter | Bright House (phone) | Marcel Champagne | | Neustar |
| Frank App III | Bright House (phone) | Michael O’Connor | | Neustar |
| Marian Hearn | Canadian LNP Consortium | Dave Garner | | Neustar (phone) |
| Jan Doell | CenturyLink | Bill Reidway | | Neustar |
| Brenda Bloemke | Comcast (phone) | Mubeen Saifullah | | Neustar Clearinghouse |
| Tim Kagele | Comcast (phone) | Shannon Sevigny | | Neustar Pooling (phone) |
| Beth O’Donnell | Cox (phone) | Suzanne Addington | | Sprint Nextel |
| Dena Hunter | Cricket (phone) | Chad Younger | | Sprint Nextel |
| Devang Naik | DSET | Rosemary Emmer | | Sprint Nextel |
| Robin Rice | DSET | Ann Fenaroli | | Sprint Nextel (phone) |
| Linda Peterman | Earthlink Business | Nancy Conant | | Synchronoss (phone) |
| Jeff Sonnier | Ericsson | Rosalee Pinnock | | Syniverse |
| John Malyar | Ericsson/Telcordia | Ramesh Chellamani | | Tekelec |
| Joel Zamlong | Ericsson/Telcordia | Paula Campagnoli | | T-Mobile |
| Adam Newman | Ericsson/Telcordia (phone) | Luke Sessions | | T-Mobile |
| George Tsacnaris | Ericsson/Telcordia | Jesse Ochoa | | T-Mobile |
| Pat White | Ericsson/Telcordia | Glenn Andrews | | TNS |
| Steven Koch | Ericsson/Telcordia | Kayla Sharbaugh | | TNS (phone) |
| Crystal Hanus | GVNW (phone) | Jason Lee | | Verizon (phone) |
| Kim Isaacs | Integra | Deb Tucker | | Verizon Wireless |
| Bridget Alexander | John Staurulakis, Inc. (phone) | Leah Richter | | Vantage Point |
| Karen Hoffman | John Staurulakis, Inc. (phone) | Imanu Hill | | Vonage |
| Eric Monkelien | Level 3 (phone) | Traci Brunner | | Windstream |
| Lynette Khirallah | NetNumber (phone) | Dawn Lawrence | | XO Communications (phone) |

NOTE: ALL APT ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE “JANUARY 8, 2013 LNPA WG APT ACTION ITEMS” FILE ISSUED IN A SEPARATE E-MAIL FROM THESE MINUTES AND ATTACHED BELOW.

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**APT MEETING MINUTES:**

**2013 LNPA WG Meeting/Call Schedule:**

Following is the current schedule for the 2013 LNPA WG meetings and calls. The APT will typically meet on the first day of the LNPA WG meeting dates.

| **MONTH**  **(2013)** | NANC MEETING DATES | LNPA WG  **MEETING/CALL**  **DATES** | HOST COMPANY | MEETING LOCATION |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| January |  | 8th-9th | Ericsson/  Telcordia | Scottsdale, Arizona |
| February |  | No meeting or call.  Scheduled time on 2/5/13 for conference call to be used by APT. |  |  |
| March |  | 5th-6th | DSET | Atlanta, Georgia |
| April |  | No meeting.  04/09/2013 call if necessary |  |  |
| May |  | 7th-8th | Neustar | Miami Beach, FL |
| June |  | No meeting.  06/04/2013 call if necessary |  |  |
| July |  | 9th-10th | T-Mobile | Seattle, Washington |
| August |  | No meeting.  08/06/2013 call if necessary |  |  |
| September |  | 10th-11th | Comcast | Denver, Colorado |
| October |  | No meeting.  10/08/2013 call if necessary |  |  |
| November |  | 5th-6th | AT&T | San Antonio, Texas |
| December |  | No meeting.  12/03/2013 call if necessary |  |  |

**Nominations and Election of LNPA Working Group Co-Chairs**

* Paula Campagnoli, T-Mobile, was reaffirmed as the wireless industry co-chair.
* Linda Peterman, Earthlink Business, was reaffirmed as the CLEC industry co-chair.
* Ron Steen, AT&T, was elected as ILEC industry co-chair to fill the open position.

**November 6, 2012 Draft APT Meeting Minutes Review:**

* No changes were made to the DRAFT September 11, 2012 APT meeting minutes.
* They were approved as FINAL.

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

**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.

November 6, 2012 meeting update: Item remains Open and ongoing. At the July 12, 2011 APT meeting, a sub-team was formed made up of John Nakamura (Neustar and sub-team lead), Jim Rooks (Neustar), Pat White (Ericsson/Telcordia), Lisa Marie Maxson (Ericsson/Telcordia), John Malyar (Ericsson/Telcordia), Kayla Sharbaugh (Ericsson/Telcordia), Suzanne Addington (Sprint Nextel), Karen Fahrenbruch (CenturyLink), Renee Dillon (AT&T Mobility), Linda Peterman (Earthlink), Jim Seigler (DSET), and Gary Sacra (Verizon). Separate conference calls are being held to review and revise the test plans.

Jason Lee (Verizon Business) will replace Gary Sacra on this team.

**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 sunset.

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

 

* Neustar reviewed the FRS changes to NANC 372 and to the XML Interface Specification.

**Action Item 110612-APT-01:** Regarding the attached slide deck describing the XML interface specification under development (NANC 372), LNPA WG APT Participants are to discuss internally the proposal that the NPAC system will allow multiple concurrent incoming HTTPS (server) connections for both SOA and LSMS systems up to a tunable limit. Discussion will take place at the January 2013 APT meeting to determine if the added ordering complexity of multiple concurrent connections is acceptable or if we only want to allow a single connection. See slide 6 in the attached for reference.



Discussion centered on the following points:

* + Should the XML interface be designed to have multiple connections or only individual connections?
  + Are multiple interfaces needed? Not an XML requirement but rather a throughput consideration, but XML is necessary to provide for this feature. It won’t be available in CMIP.
  + With individual connections, transactions are sent sequentially.
  + With multiple, bandwidth is increased but messages can arrive out of order if not managed carefully.
  + Service provider consensus is that multiple connections are desired, but proper message sequencing must be maintained.
  + Agreement reached that the number of connections should be configurable with a minimum of one and maximum of 5.
  + There was discussion about the best way to manage sequence with multiple connections: instance IDs, local system management, assignment of specific kinds of traffic to individual connections, round robin approach, etc.
  + The NPAC and local system vendors were given an action item to form a sub-team to discuss and recommend the most appropriate method of sequencing message transactions over multiple connections at the March APT/WG meeting. The WG anticipates sending a request for an SOW to the NAPM LLC after the March meeting.

**010813-APT-01:** NPAC vendor and local system vendors will recommend methodology to properly sequence messages/transactions over multiple connections. Recommendation is to be made at the March 2013 face-to-face meeting. A sub-committee consisting of Jim Rooks – Neustar, Pat White – Ericsson/Telcordia, Ramesh Chellamani – Tekelec, Mubeen Saifullah – Neustar, Devang Naik – DSET, Glenn Andrews – TNS, and Rosalee Pinnock – Syniverse. Jim Rooks will lead the team. Currently, a conference call is scheduled for February 5, 2013.

*The goal is to be able to send a request for an SOW to the NAPM LLC after the March 2013 LNPA WG meeting.*

**110612-APT-02:** Regarding the attached XML Interface Specification (XIS), LNPA

WG APT Participants are to:



1. explore the scenarios where access denied can be returned as discussed in Section 2.6.
2. review security Sections 2.2 and 3.
3. review Section 5.2 regarding if an API Key is needed and the frequency of API Key changes.

These items will be discussed at the January 2013 APT meeting.

* + Neustar led a walk-through of the XIS document embedded above.
  + Several service providers felt that some security question have yet to be answered.
  + Neustar indicated that they have taken notes during the walk-through of items that still need to be covered, and indicated that most will be addressed in specific security M&P documents.
  + AI 110612-APT-02 is now CLOSED.
* A final sweep of the XIS and FRS changes will be made at the March face-to-face meeting. Service providers can then make a final review and be prepared to send to the NAPM LLC following the May meeting.

**LNPA WG APT Action Items Closed at this Meeting:**

* AI 110612-APT-02: 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.

***Next APT Conference Call: February 5, 2013***

***Next APT Meeting: Part of the March 5-6, 2013 LNPA WG Meeting***

***Location: Atlanta, GA***

***Hosted by DSET***