

**LNPA WORKING GROUP**  
**June 12, 2012 Conference Call**  
**Final Minutes**

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

**ATTENDEE LIST:**

<b>Name</b>	<b>Company</b>	<b>Name</b>	<b>Company</b>
Ron Steen	AT&T	John Nakamura	Neustar
Teresa Patton	AT&T	Ed Barker	Neustar
Renee Dillon	AT&T Mobility	Lavinia Rotaru	Neustar
Lonnie Keck	AT&T Mobility	Dave Garner	Neustar
Jan Doell	CenturyLink	Mubeen Saifullah	Neustar Clearinghouse
Tim Kagele	Comcast	Shannon Sevigny	Neustar Pooling
Brenda Bloemke	Comcast	Jeff Sonnier	Sprint Nextel
Beth O'Donnell	Comcast	Suzanne Addington	Sprint Nextel
Anand Rathi	DSET	Nancy Conant	Synchronoss
Jim Seigler	DSET	Rosalee Pinnock	Syniverse
Linda Peterman	Earthlink Business	Pat White	Ericsson/Telcordia
Kimberly D. Isaacs	Integra	Lisa Marie Maxson	Ericsson/Telcordia
Bridget Alexander	John Staurulakis, Inc.	George Tsacnaris	Ericsson/Telcordia
Karen Hoffman	John Staurulakis, Inc.	Kayla Sharbaugh	Ericsson/Telcordia
Jim Rooks	Neustar	Steven Koch	Ericsson/Telcordia
Paul LaGattuta	Neustar	Paula Jordan	T-Mobile
Stephen Addicks	Neustar	Deb Tucker	Verizon Wireless

**NOTE: ALL APT ACTION ITEMS REFERENCED IN THE MINUTES BELOW HAVE BEEN CAPTURED IN THE "JUNE\_12\_2012 LNPA WG APT ACTION ITEMS" FILE ISSUED IN A SEPARATE E-MAIL FROM THESE MINUTES AND ATTACHED BELOW.**

[JULY 12, 2012 LNPA WORKING GROUP APT ACTION ITEMS ANNOTE](#)

**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		10 <sup>th</sup> -11 <sup>th</sup>	Telcordia	Scottsdale, Arizona
February		No meeting or call.		
March		13 <sup>th</sup> -14 <sup>th</sup>	Comcast	Denver, Colorado
April		No meeting or call.		
May		8 <sup>th</sup> -9 <sup>th</sup>	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		10 <sup>th</sup> -11 <sup>th</sup>	Canadian LNP Consortium	Mont Tremblant Quebec, Canada
August		No meeting.  8/7/2012 call if necessary.		
September		11 <sup>th</sup> -12 <sup>th</sup>	CenturyLink & Tekelec	Denver, Colorado
October		No meeting.  10/9/2012 call if necessary		
November		6 <sup>th</sup> -7 <sup>th</sup>	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.

## APT Alternative Interface (NANC Change Order 372) – All

---

*Appendix A: Errors*

- Neustar recapped the May 2012 APT meeting discussion where it was decided to move forward with all of the working assumptions currently in the change order document
- Neustar reviewed the attached NANC 372 IIS CMIPversusXML flow document. The main development assumptions and/or points of the change from the CMIP version identified include:
  - The existing IIS Flows will be the baseline of the XML interface.
  - Messages have both a long English-like name, and a 4-character abbreviation. The abbreviation is the message name that will be sent across the interface in order to limit the length of messages, reducing the bandwidth requirement between the local systems (SOA, LSMS) and the NPAC
  - Every type of Request has either a specifically-named Reply or a generically-named Reply associated to it.
  - Approach used for Notifications:
    - Notifications to the requestor that are simply an echo of what was originally submitted to NPAC have been eliminated.
    - Notifications are sent to NSP and/or OSP when there is no other way for them to know about that information contained in the notification.
    - Information is included in an XML Reply that in today's environment comes in a separate CMIP notification (e.g. SV-ID after an initial Create Request). In these instances, the separate notification no longer exists.
    - The SAVC (statusAttributeValueChanged) notification is collapsed into the AVC (attributeValueChanged) notification. An example is conflict resolution where today the NPAC sends both an SAVC (status=pending) and an AVC (authorization flag=TRUE) to the NSP. For this same scenario in the XML Interface, NPAC will send an AVC.
- Neustar (John Nakamura) lead the discussion of the IIS3\_4\_1aPart\_2\_CMIPversusXML-v1 document and discussed the naming convention/nomenclature utilized for 4-digit mnemonic message identifiers
- Participants felt the identifiers were not intuitive and requested additional clarification in order to better understand the rationale behind the nomenclature.
- Neustar (John Nakamura) agreed to develop a table to add to the IIS document which they will distribute prior to the July 10, 2012 LNPA WG meeting

- Neustar indicated draft XML Schema documentation is not completed at this time, however, will be completed and distributed prior to the July 10-11, 2012 LNPA WG meeting for review in Mont Tremblant.

**Action Item 061212-APT-01:** Neustar will develop a naming convention/nomenclature table to be added to IIS3\_4\_1aPart\_2\_CMIPversusXML-v1.docx document. This document is to be distributed to the group prior to the July 10-11, 2012 LNPA WG meeting for review.

**Action Item 061212-APT-02:** Neustar will complete draft XML Schema documentation and distribute to the group prior to the July 10-11, 2012 LNPA WG meeting for review in Mont Tremblant.

- During the review of network data (Service Provider, NPA-NXX, LRN), Neustar noted that many of the LSMS network data flows were excluded for the XML Interface due to the current lack of Service Provider usage of Create, Modify, and Delete of network data.
  - Flows for Query Request of network data to the NPAC, or the receipt of downloaded network data from the NPAC, are included in the XML flows.
  - Several LSMS vendors indicated that they support this functionality.
  - Service Providers were given an action item to determine their actual usage in production of this LSMS functionality.

**Action Item 061212-APT-03:** Service Providers will investigate and determine whether or not the Service Provider functionality to CREATE, MODIFY or DELETE Network Data (Service Provider, NPA-NXX, LRN) over the Interface from their LSMS is being utilized in production, for discussion during the July 10-11, 2012 LNPA WG meeting in Mont Tremblant. The functionality in question does not include Query Request of network data to the NPAC, or the receipt of downloaded network data from the NPAC, which are included in the XML flows.

- During the IIS review, an issue was raised regarding the 4-digit alphabetical message name versus spelling out the message name. What are the actual bandwidth impacts of one versus the other?
- Neustar indicated it did not have specific information, however, the larger each message, the larger the bandwidth requirement exponentially. Neustar also indicated their intention was to apply this naming convention to the Attribute Names as well as to the Message identifiers.
- Service Providers did not feel they had sufficient data to determine the best path forward and felt Neustar, Vendors and Service Providers needed to take this back to their individual companies for feedback

**Action Item 061212-APT-04:** Neustar, Vendors and Service Providers will provide feedback from their individual companies at the July 10-11, 2012 APT meeting regarding the impact of 4-digit mnemonics VS spelled out Message and attribute names on bandwidth with a T1 being utilized for communication. They will also come to the meeting prepared to discuss their positions regarding bandwidth VS readability at that time.

- In order to move the IIS scenario discussion forward, after lengthy discussion, it was decided to leave the 4-digit mnemonics in place in the document for now. The spelled out message identifiers will be used during the review discussions for the purposes of ease of understanding and clarity.
  
- The sections that were covered during the call included:
  - B.3, Service Provider Scenarios
  - B.4.1, NPA-NXX Scenarios
  - B.4.2, LRN Scenarios
  - B.5.1, SV Create/Activate Scenarios

*Next APT Meeting ...Part of the July 10-11, 2012 LNPA WG Meeting...  
Location...Mont Tremblant, Quebec, Canada...  
Hosted by the Canadian LNP Consortium*