**NPIF – *Giddy Up Sub Team***

Meeting Notes

#### Monday, April 11, 2022 4:00 PM – 5:00 PM (Eastern Time Zone)

**Chairpersons:**

*Cheryl Fullerton (Inteliquent), Annalyce Grogan (Bandwidth), Joy McConnell-Couch (CenturyLink/Lumen)*

**Meeting Attendance** *– – 11 Participants*

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| --- | --- | --- | --- | --- | --- |
|  | **Name** | **Company** |  | **Name** | **Company** |
|  | Lisa Marie Maxson | 10xPeople |  | Deb Lasher | iconectiv |
|  | John Nakamura | 10xPeople | X | Matt Timmerman | iconectiv |
| X | Sara Cleland | ATL |  | Frank Schmidt | iconectiv |
|  | Dale Bell | AT&T | X | Doug Babcock | iconectiv |
| X | Renee Dillon | AT&T |  | Ken Bade | Lumen |
|  | Teresa Patton | AT&T | X | Joy McConnell-Couch | Lumen |
|  | Larry Turner | AT&T |  | Brad Smeal | Lumen |
| X | Annalyce Grogan | Bandwidth |  | Jim Kientz | Neustar |
| X | Randee Ryan | Comcast |  | Steve Brock | Oracle |
| X | Sheri Pressler | Frontier |  | Vincent Hamrick | Oracle |
| X | Cheryl Fullerton | Sinch Voice |  | Holly Nagel | Powernet |
|  | Renee Berkowitz | iconectiv |  | Bob Bruce | Syniverse |
|  | Michael Doherty | iconectiv |  | Sarah Halko | Telnyx |
|  | Darold Hemphill | iconectiv |  | Bale Pathman | Verizon |
| X | Steve Koch | iconectiv | X | Deb Tucker | Verizon |
|  |  |  |  |  |  |

**Introductions and Agenda Review – All**

**Notes & Open Action Item Review**

**PIM 136 – LSMS Performance**

* **GUST 05072021-02 –** Service Providers to consider what transaction volume is appropriate for today’s business activities.
  + iconectiv continues to work with SPs who have lagging LSMS. Adjustments are being made. Will need 3-4 weeks to allow time to evaluate for improvement.
  + **GUST 03142022-01**: **iconectiv will review peak and off-peak times for potential testing plans.** iconectiv presented a Production Load Testing Presentation.



* + Plan for next GUST meeting on May 9 to continue discussions about what rate to use for testing and plan for discussions during June NPIF meeting.
  + **GUST 03142022-02**: **Lumen will inquire about the ATIS Packet Technology and Systems Committee (PTSC).** Joy-Lumen was unable to find SS7 architecture documentation in PTSC library. Details of previous efforts to increase the transaction rate in 2007 and 2012 were found in LNPA WG meeting minutes and are included below. NANC 397 which increased the TPS rate from 4 to 7 is also attached.



**Next Meeting: Monday, May 9, 2022 4:00-5:00 EDT**

Will cancel the Monday April 25 meeting to allow time to evaluate SP LSMS improvements.

***History on increase of NPAC transaction rate***

**Mar 2007 LNPA WG meeting minutes**:

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

* Jim Rooks, NeuStar, reported that the focus of the January APT meeting was development of the 10K TN end-to-end test and the measure of the time to provision the provider SCPs.

The group will also investigate possibly revisiting the NFG forecast to ensure future projected porting and pooling volumes can be supported. Jim to check to see if forecast can be distributed. This will be further discussed at the March APT meeting later this week.

Readout of 10K Mass Modify Exercise (AI 0107-01, 12) – NeuStar:

 

* NeuStar presented the results of the 10K TN mass modify test performed in each of the 7 U.S. regions. NeuStar reported that all but one of the industry LSMSs performed flawlessly during the test. NeuStar contacted that LSMS owner and provided the results of their performance during the test. That LSMS owner then developed short and long term plans to address the performance issues. NeuStar has confirmed improvements already. Based on these results, NeuStar deemed the exercise a success.
* NeuStar then presented the results of the SCP update intervals measured during the exercise. NeuStar reported that, for the most part, SCP updates were virtually in real time. Participants affecting call routing for approximately 400 million active numbers reported SCP update intervals within seconds of the NPAC broadcasts. Participants affecting call routing for less than 20 million active numbers experienced troubles such as load-related issues and reported hours-long SCP update delays.
* The data response rate was about ½ of the LSMSs in each region, but data was provided by the providers that have the vast majority of ported numbers in each region.
* NeuStar is continuing to work with providers that had issues.
* The group agreed to let this exercise soak awhile to allow NeuStar to continue to work with the providers that had issues. We will discuss any future plans for another exercise at a later date.

**May 2007 LNPA WG meeting minutes:**

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

* Jim Rooks, NeuStar, reported on the March 2007 APT meeting.
* The group discussed the positive results of the 10,000 TN modify test results and agreed to hold off for six months before doing the next trial at 15,000 TN operations (the current interface requirements).
* Discussion also took place on the 25,000 TN/hour Change Order NANC 397 submitted by Verizon Wireless.
* The team discussed how we could acquire capacity planning information for the future. Options include:

1. Do an extensive exercise similar to what was done for NANC 393, using NFG data and measurements,
2. Move directly to the 25,000 level request to develop requirements.

**Sep 2007 LNPA WG meeting minutes:**

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

* 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.

**Nov 2007 LNPA WG meeting minutes:**

* NANC 397 – The group continues to discuss the proposal to support 25K activates in an hour.
  + - 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 also agreed that a capacity approach higher than 25K in an hour will not be considered at this time. 25K will be the cap.

**March 2012 LNPA WG meeting minutes:**

* 25K/hour Industry Load Test Discussion – All:

**Action Item 011012-LNPAWG-04:** Regarding the plans for a 25K/hour industry load test, Service Providers are to check to see if they have any planned large projects for activates, modifies, or disconnects scheduled in the March 2012 or April 2012 timeframe that could be used for the test. Any feedback (planned timeframe, quantities by type and by Region) should be provided via e-mail to the LNPA WG Co-Chairs and Steve Addicks (Neustar) by Wednesday, February 15, 2012. E-mail addresses are: [gary.m.sacra@verizon.com](mailto:gary.m.sacra@verizon.com) (Gary Sacra), [paula.jordan@t-mobile.com](mailto:paula.jordan@t-mobile.com) (Paula Jordan), [lpeterman@corp.earthlink.com](mailto:lpeterman@corp.earthlink.com) (Linda Peterman), and [stephen.addicks@neustar.biz](mailto:stephen.addicks@neustar.biz) (Steve Addicks).

* + Neustar reported that they has sufficient projects (modifies) to perform the load test. They plan to conduct the test similar to previous load tests.
  + It was agreed that the load test will be conducted on Wednesday, April 18th, from 5am to 6am eastern.

NOTE: The April 18th load test was subsequently cancelled and will be rescheduled at the May 2012 LNPA WG meeting.

**July 2012 LNPA WG meeting minutes:**

Report of May 23rd 25K Industry Load Exercise – Neustar:

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* Neustar reviewed the results of the May 23rd 25K industry load exercise, stating that overall it was very successful (see attached for further details).
* 25,000 active SVs in each U.S. NPAC were modified and broadcast (175,000 total).
* All LSMSs participated in the exercise. No LSMSs were in backlog or recovery when the exercise began.
* 237 of 249 *(95%)* of the LSMSs performed flawlessly (no delays).
* 12 of 249 *(5%)* of the LSMSs were behind at some point in taking downloads by at least 1,000 transactions (at least 144 seconds). 4 SPIDs were involved.
* 242 of 249 *(97%)* of the LSMSs had taken all of the downloads by 6:10 am Eastern.
* At end of the exercise – 6:00 am Eastern – one SPID’s LSMSs owned 77% of the backlog.
* The Neustar NPAC team will reach out to the 4 SPIDs that fell behind separately to discuss their LSMS performance.
* With the success of the load test in terms of overall LSMS performance, there were no objections to increasing the Large Port Notification threshold from the current 15,000 level to 25,000.
* Neustar will notify the industry via the Cross-Regional distribution that the LNPA WG has agreed to raise the large port notification threshold to 25K.