**APT MEETING MINUTES**

**JULY 21, 2022**

1. **Discuss/Determine what metrics should be captured and reported on for Load Testing exercise**

Discussion Points:

* The LNPA will anonymize the information regarding metrics so service providers will not be identified in information shared with the industry.
* Does LNPA have a “dashboard” that reflects the level of traffic flowing to SP’s? Any indication of queuing? LNPA has a monitoring system – alarming, service providers have access to their own performance/statistics/transaction metrics via secure LNPA website.
* In order to determine if the load testing is successful, it will be important for service providers to review their downstream system performance during this testing exercise.
* Prior performance testing metrics/results were included in the July 2012 LNPA WG Meeting minutes.



* **Action Item** – participants to review what was done in the past and determine if its applicable for the upcoming load test?
* **Action Item** – service providers need to investigate what metrics are available in their down stream systems. In order to determine if the load testing is successful it will be important for service providers to review their downstream system performance during this testing exercise.
* **Action Item -** LSMS Vendors & Service Providers: Determine what metrics are available and which of those would be useful that can be captured during the load testing exercise. Review slide 7 for recommendations from the LNPA in the attached presentation:



Final outcome should answer “What constitutes a successful test”. Report will need to include the metrics needed to make a formal decision after the testing is completed. As well as recommendation for next steps if test was successful.

1. **Discuss/Determine what situations would cause the Load Testing exercise to be stopped**
   1. Reviewed the prior suggested items in attached presentation – Slide 8
   2. **Action Item -** LNPA to provide recommendations regarding the following items from attached presentation:
      * More than ?? LSMS are down for >?? min
      * What are the steps if an LSMS goes down? Does this invalidate the testing for that LSMS?
      * What if an LSMS is down just prior to testing? Should we proceed?
      * Average Response delay per LSMS (When message could be sent to when CMIP response or XML Async response is received) time is >15 min for ?? or more local systems
      * If >?? % SVs with non-empty Failed SP List
   3. Average response delay – key is when the message(s) is available to be sent (when an LSMS is in flow control state the messages get queued)
   4. The team did not recall and discussion regarding parameters related to halting testing during the 2012 load exercise.
   5. What factors should be considered regarding LSMS’ – is there a minimum criteria that needs to be up/available for the load testing to begin? Do we want to establish a status categorization regarding LSMS status – that will provide go/no-go decision. (25-30 LSMS) Ideally we’d like to have 100% participation of LSMS’
   6. Do we need to have a “health check” prior to the testing and when would that take place? Should we provide a recommendation that LSMS’ should not be upgraded x period of time prior to the testing?
   7. Is there a SOA mix that needs to be included in the testing? Do service providers want to suppress notifications? Goal of this test is not to look at SOA behavior but to concentrate on LSMS performance. Do we need to have any further discussion related to inclusion of SOAs? Need to have continued discussions regarding this.
      1. Only the SOA’s involved in the transactions are the ones that will be impacted/affected.
      2. NPAC will support suppression of notifications, SP’s need to determine if they want the notifications to be suppressed.
   8. **Action Item:** LNPA to provide recommendations regarding the following items from attached presentation:
      * More than ?? LSMS are down for >?? min
      * What are the steps if an LSMS goes down? Does this invalidate the testing for that LSMS?
      * What if an LSMS is down just prior to testing? Should we proceed?
      * Average Response delay per LSMS (When message could be sent to when CMIP response or XML Async response is received) time is >15 min for ?? or more local systems
      * If >?? % SVs with non-empty Failed SP List
2. **Mix of Transaction Types to be included in load testing exercise**
   1. **Action Item:** In order to finalize the requirements for the mix of transactions, LSMS Vendors need to provide information related to the following items :

For a Subscription Version Activation

 Is there a processing difference in Activates of an SV:

1. First time port from a native number,
2. Port away from a Pooled Block,
3. Port of an active/existing port (i.e. Current goes to 'Old', not a Modify Active)

considering both internal processing of SV history, and transitioning previously active SVs to an Old status.

 Is there a processing difference for the following actions when comparing against any of the Activates of an SV (asking because not wanting to assume 'Yes') listed above as compared to:

1. Modify of an existing/active SV
   1. LRN
   2. DPC
   3. Optional field e.g. Alt Spid, URL field
2. Disconnect of the SV

Are there product configuration options, that are NOT infrastructure\* related, with the Local System LSMS that would have an impact on any of above actions (e.g. History maintained, standalone vs. Network element integrated, other?)

| Action Item Review | | | |
| --- | --- | --- | --- |
| AI # | Description | Discussion | Status |
| APT-01-072122 | Participants to review the attached information from July 2012 LNPA WG meeting on the Load Testing Outcome and determine if the same items are applicable for the upcoming load test? |  | Open |
| APT-02-072122 | Service providers need to investigate what metrics are available in their down-stream systems. |  | Open |
| APT-03-072122 | LSMS Vendors & Service Providers: Determine what metrics in their LSMS’ are available and which of those would be useful to measure the success of the upcoming load testing exercise. |  | Open |
| APT-04-072122 | LNPA to provide recommendations regarding the Conditions Resulting in Suspension of Testing (Slide 8) in the above attached presentation |  | Open |
| APT-05-072122 | LSMS Vendors work with your service providers, to ensure measurements will be available, resources available for observing their systems during the load testing activities. |  | Open |
| APT-06-072122 | In order to finalize the requirements for the mix of transactions, LSMS Vendors need to review the questions provided by Renee Dillon (see meeting minutes from 07/21/2022) and be prepared to discuss at the upcoming APT meeting on 8/2/2022 |  | Open |

When identifying the process differences, please provide details to assist your Service Provider customers to assist in what would best define testing data that will be needed for the Industry Test

\*Infrastructure: Hardware/Installed platform, DB options, IT Network configuration to send/receive between NPAC.

**Action Item** – LSMS Vendors work with your service providers, to ensure measurements will be available, resources available for observing their systems during the load testing activities.

Future discussion topic: If 11 TPS testing is successful, will industry move to this and if so, how would that be implemented/supported.