

## **RSSAC 40, Quebec City, Quebec, Canada, 27 July 2011**

### **1. Welcome/Introductions:**

- Joao Damas
- Terry Manderson
- Keith Mitchell
- Jun Murai
- Akira Kato
- Shinta Sato
- Matt Larson
- Anand Buddhdev
- Greg Patrick
- Nevil Brownlee
- Brad Verd
- Brian Coppola
- Les Bloom
- Jason (last name not captured)
- Jerry (last name not captured)
- Jim Cassell
- Johan Ihren
- Lars-John Liman
- Dave (last name not captured)
- Rob Austein
- Steve Crocker
- John Crain
- Tomofumi Okubo
- Mehmet Akcin
- Peter Loshier
- Peter Koch
- Joe Abley
- Suzanne Woolf
- Ashley Heineman
- Vernita Harris
- Yuji Sekiya
- Russ Munday (via phone)

2. Lars-Johan Liman invites everyone to the I-Root 20th anniversary party on Thursday.

3. Joao Damas reappointed as Nomcom representative by unanimous affirmation.
4. Board liaison report on new gTLD program
  - Suzanne: In Singapore the new gTLD program was approved, including a time line for accepting delegations. There are URLs in a message to the mailing list for your review. The Applicant Guidebook is mostly about the application process. For RSSAC, given the discussion around scaling and outcome of that work, there's a limit on new gTLDs in a given period of time of less than 1000 per year. The real bottleneck in the pipeline is the review process, so we're not expecting this number to be reached. Asked for issues and questions from RSSAC regarding Board actions, or issues and questions to be taken back to the board. None heard. Matt and Suzanne requested that any issues or questions be sent to the mailing list.
5. Review root server system measurement
  - Matt: In San Francisco, we formed subgroup to review ways to measure the state of the root server system. Volunteers were Lars-Johan Liman, Peter Koch, Paul Vixie, Wolfgang Nagele, and John Crain provided logistics support.
  - Suzanne: Here is the context to this work: we need metrics to review the impact of a larger root zone on overall system performance. We should be proactive and say what we think they should be rather than being asked later.
  - Peter Koch: Provide the basis for projections, pre-date large growth or changes. Then can find any indications influencing stability of the system. Latency in the distribution system: obvious relationship between zone size and distribution time of the data. Full zone transfer now, but could change operational environment for incremental updates. Zone size can be measured by root zone publisher easily, e.g., the zone file size or the size of zone transfer on the wire. Need a decision on how to measure to have baseline to show increase due to new gTLD program. Number of queries and response size distribution could change based on assumptions of use. Number of queries today are hitting "beneath" existing TLDs, might change overall volume or redirect existing queries into new spaces. DNSSEC influence on response sizes discussed elsewhere.

Naming of name servers might effect response sizes, which affect bandwidth and other changes of overall DNS system. Number of sources seen: influenced by other technologies, such as validators moving to edges and embedded applications. Also influenced by number of TLDs. We made recommendations. Some measurements can be done by the root zone publication entity. Others best done by the collective effort of all root server operators.

- Matt: Thanks. Observations?
- Steve Crocker: Sounds good and I applaud the effort. Lots of people waiting to see this work go forward. Very good contribution to community. Expectations of next step being made. Impact on lookup process and client-side provisioning are distinct: recommend clarity of these two classes.
- Akira Kato: Do you envision a measurement process running continuously and send statistics somewhere, or sampling stats and submitting somewhere periodically?
- Peter: Some specific suggestions in draft right now. Measurements taken regularly, but continuous/daily not defined. Influenced by operational requirements. Need to hear root operators' specific input.
- Akira Kato: When are measurements expected to start?
- Peter: This is still a proposal. But soon would be good, in my opinion.
- Matt: We need a comment period on the mailing list, then publish this draft and get wider community feedback. We should take this to the mailing list and hope it prompts further discussion.

6. AOB

7. Next Meeting: Taipei, Taiwan, Sunday before the fall IETF meeting.