RSSAC Activities Update

Lars Johan Liman and Tripti Sinha
RSSAC Chair | ICANN-52 | February 2015

Agenda

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2 RSSAC 001 Presentation

3 RSSAC 002 Presentation

4 RSSAC and IANA Stewardship Transition

5 Upcoming RSSAC Caucus Work

6 Community Interaction

What is RSSAC?

- The role of the Root Server System Advisory Committee ("RSSAC") is to advise the ICANN community and Board on matters relating to the operation, administration, security, and integrity of the Internet's Root Server System.

- (This is a very narrow scope!)

RSSAC organization

- ## RSSAC
  - Appointed representatives from the 12 root server operators.
  - Alternates to these.
  - Liaisons.
- ## RSSAC Caucus
  - Body of volunteer subject matter experts.
  - Appointed by RSSAC

RSSAC Liaisons

- IANA Functions Operator (ICANN/IANA dept.)
- Root Zone Maintainer (Verisign)
- IANA Functions Administrator (US DoC NTIA)
- IAB
- SSAC
- ICANN Board
- ICANN NomCom

https://www.icann.org/resources/pages/rssac-4c-2012-02-25-en

Caucus: Purpose

- Pool of experts who produce documents
  - Expertise, critical mass, broad spectrum
- Transparency of who does the work
  - Who, what expertise, which other hats
- Framework for getting work done
  - Results, leaders, deadlines

Caucus: Members

- All members of RSSAC + others appointed by RSSAC

- Public statements of interest

- Public credit for individual work

Caucus: Details

- Clearly scoped work items

- Designated document leaders

- Result oriented

- Include dissenting opinions

Caucus: Launch Meeting

- Planning a "kick-off" meeting for the Caucus at the upcoming IETF in Dallas.
  - Tentative date: March 22, 2015.
- Will invite all Caucus members to participate.
  - Dialogue on work procedures.
  - Brainstorm about current and future work items.
  - Inviting new ideas and input from the Caucus.
- To join: contact rssac-membership@icann.org

Recent RSSAC publications

- Reports
  - RSSAC001: Service Expectations of Root Servers [20 November 2014] (approved by RSSAC, held in publication in tandem with a complementary RFC by IAB)
  - RSSAC002: Advisory on Measurements of the Root Server System [20 November 2014]

- Statements
  - RSSAC statement on the Increase of the DNSSEC Signature Validity Period of the DNS Root Zone [17 December 2014]

RSSAC 001: Service Expectation of Root Servers

Terry Manderson

RSSAC001: Service Expectations of Root Servers

- Establishes a set of service expectations that root server operators must satisfy

- Defines eighteen operational expectations that stakeholders might reasonably anticipate from root server operators

- Together with an upcoming IAB RFC, replaces early direction on implementation (RFC 2870)

RSSAC001: Service Expectations of Root Servers

Forms 18 statements in the areas of

- Infrastructure
- Service Accuracy
- Service Availability
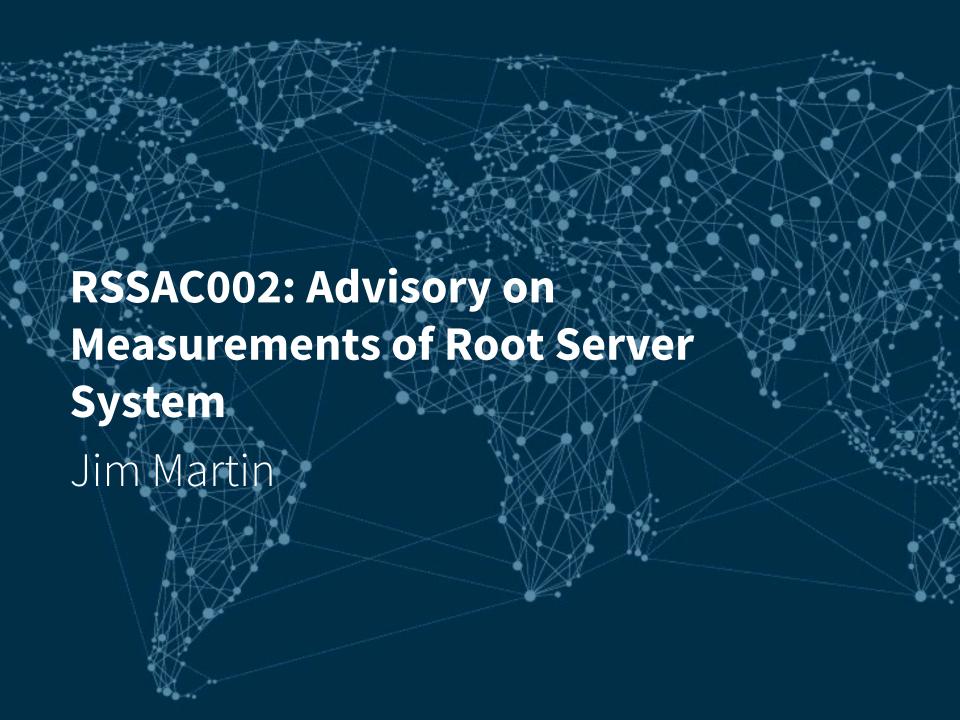- Service Capacity
- Operational Security

- Diversity of Implementation
- Monitoring and Measurement
- Communication
- Public Documentation

RSSAC001 Recommendations

1. Each root server operator publish the level of service they offer as a root server operator to the Internet Community by responding to each of the expectations detailed herein.

2. Each root server operator advise the RSSAC as to where RSSAC001 responses have been published, and notify RSSAC of future revisions or either content or location.

RSSAC002: Advisory on Measurements of Root Server System

- Identifies and recommends an initial set of measurement parameters for establishing a baseline and trends for the root server system

- Implementation of the advisory will form an early warning system that will assist in detecting and mitigating any effects associated with growing size of the DNS root zone

RSSAC002 Proposed Measurements

- Latency in publishing available data
- The size of the overall root zone
- The number of queries
- The query and response size distribution
- The RCODE distribution
- The number of sources seen

RSSAC002 Recommendations

1. Each root server operator implement the measurements in the advisory.

2. RSSAC should monitor the progress of the implementation of these measurements.

3. Measurements outlined in the advisory should be revisited in two years to accommodate changes in DNS technologies.

RSSAC and IANA Stewardship Transition

Lars-Johan Liman

RSSAC/IANA Transition

- RSSAC considers the transition important.

- RSSAC supports the process with 2 people in the ICG.

- RSSAC observes and follows the process closely.

Upcoming RSSAC Caucus Work

Tripti Sinha

Consider the extent to which:

1. the current root zone TTLs are appropriate for today's environment,
2. lowering the NS RRset TTL makes sense,
3. the impact that TTL changes would have   on the wider DNS

Status: RSSAC Caucus work party just formed, expect to conclude 2015.

Questions to the Community

- Are you able to find the available information about the RSSAC and its work?

- Are you aware of the various ways to interact with the RSSAC?

- Q & A

Thank You