



# RSSAC Public Session

Thursday, 10 March 2022 14:30 - 16:00 UTC

# Agenda

- Overview of RSSAC
- Overview of Recent RSSAC Publications
- Input to Root Server System Governance Evolution
- Caucus Highlights
- Q & A

# Overview of the RSSAC (Fred)

# What is RSSAC?

The **R**oot **S**erver **S**ystem **A**dvisory **C**ommittee

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: Roles and Responsibilities

- Communicate on matters relating to the operation of the root server system with the technical community and ICANN community
- Communicate on matters relating to the administration of the root zone
- Engage in ongoing threat assessment and risk analysis of the root server system
- Respond to requests for information or advice from the Board
- Report periodically to the ICANN community and the Board on its activities
- RSSAC does not involve itself in operational matters

# RSSAC Organization

- RSSAC is composed of
  - Representatives of the root server operators
  - Alternates to these
  - Liaisons
- RSSAC Caucus
  - Body of volunteer subject matter experts
  - Members confirmed by RSSAC based on statement of interest

# RSSAC Leadership



**RSSAC Chair**  
Fred Baker  
ISC



**RSSAC Vice-Chair**  
Ken Renard  
Army Research Lab

# Overview of Recent RSSAC Publications (Ken)



# RSSAC056 (Ken)

- RSSAC056: RSSAC Advisory on Rogue DNS Root Server Operators
- Aims to inform future Root Server System (RSS) governance bodies on types of RSO activity that might be considered rogue and the risks that these activities may pose to the Internet community.
- Focuses only on the activities of IANA-designated RSOs.
- Informed by RSSAC037, and expands on the example scenarios in RSSAC037 by examining objective and subjective criteria for considering an RSO's activities as rogue, as well as providing an expanded list of rogue behaviors, with examples and supporting reasons.

# RSSAC057 (Abdulkarim)

- RSSAC057: Requirements for Measurements of the Local Perspective on the Root Server System
- Defines requirements for a tool(s) to collect and report measurements that can determine the level of service provided by the RSS at a location
- Examines three use cases
  - Informing the Determination of Under-served Areas
  - Evaluating Third Party Requests to Host an Anycast Instance
  - Recursive Operator

## RSSAC057 (continued)

- **Recommendation 1:** The RSSAC recommends that a tool, or set of tools, be built based on the requirements articulated in Section 3 of this document. The tools described in Section 4 of this document could be used as building blocks. The tools should be made available for the Internet community.
- **Recommendation 2:** The RSSAC recommends that the ICANN Board identify a person or group to collaborate with the RSSAC Caucus on further development of a data repository as described in Section 5 of this document.

## RSSAC047v2 (Anupam)

- RSSAC047: RSSAC Advisory on Metrics for the DNS Root Servers and the Root Server System
- RSSAC047 presented a set of measurements, metrics and thresholds for the DNS root servers and the root server system (RSS)
- As OCTO has been implementing the measurement system some issues and corner cases have been discovered
- RSSAC047v2 addresses these issues and provides clarification where RSSAC047 was ambiguous

# Input to Root Server System Governance Evolution (Fred)

# Governance Working Group (Fred)

- Composed of representatives from the RSOs, ccTLD Name Supporting Organization (ccNSO), the Internet Architecture Board (IAB), Registry Stakeholder Group, and the Security and Stability Advisory Committee (SSAC)
  - Liasons from the ICANN Board, the IANA, and the Root Zone Maintainer (RZM)
- Tasked with working out the details of the Model
- The GWG was tasked with
  - Committing to a timeline with clear milestones
  - Working openly and transparently
  - Seeking informed contributions when necessary
  - Embracing the principles outlined in RSSAC037
  - Refer to RSSAC037, Concept Paper, Public Comment feedback, and other relevant RSSAC publications as references

## **RSSAC055 (Liman)**

- RSSAC055: Principles Guiding the Operation of the Public Root Server System
- Restates the eleven principles from RSSAC037 and provides further clarification on each.
- The RSSAC decided to publish these principles separately and with additional explanatory text.
- Some apply to the RSS as a whole, while others apply to the individual RSOs that make up the RSS.
- These principles have enabled the success of the RSS, and should remain core going forward.

# RSSAC058 & RSSAC059 (Robert)

- **RSSAC058: Success Criteria for the RSS Governance Structure**
  - Contains success criteria for any proposed root server system governance structure (RSS GS).
  - These success criteria form a framework to assess the degree to which any proposed RSS GS conforms with previous RSSAC statements concerning RSS governance.
- **RSSAC059: RSSAC Advisory on Success Criteria for the Root Server System Governance Structure**
  - Contains recommendations on how these success criteria should be integrated with the recommendations in RSSAC038.



# Caucus Highlights (Ken)

# Caucus Highlights (Ken)

- Introduction of Support Staff



- Andrew McConachie - Rotterdam, The Netherlands



- Danielle Rutherford - California, USA



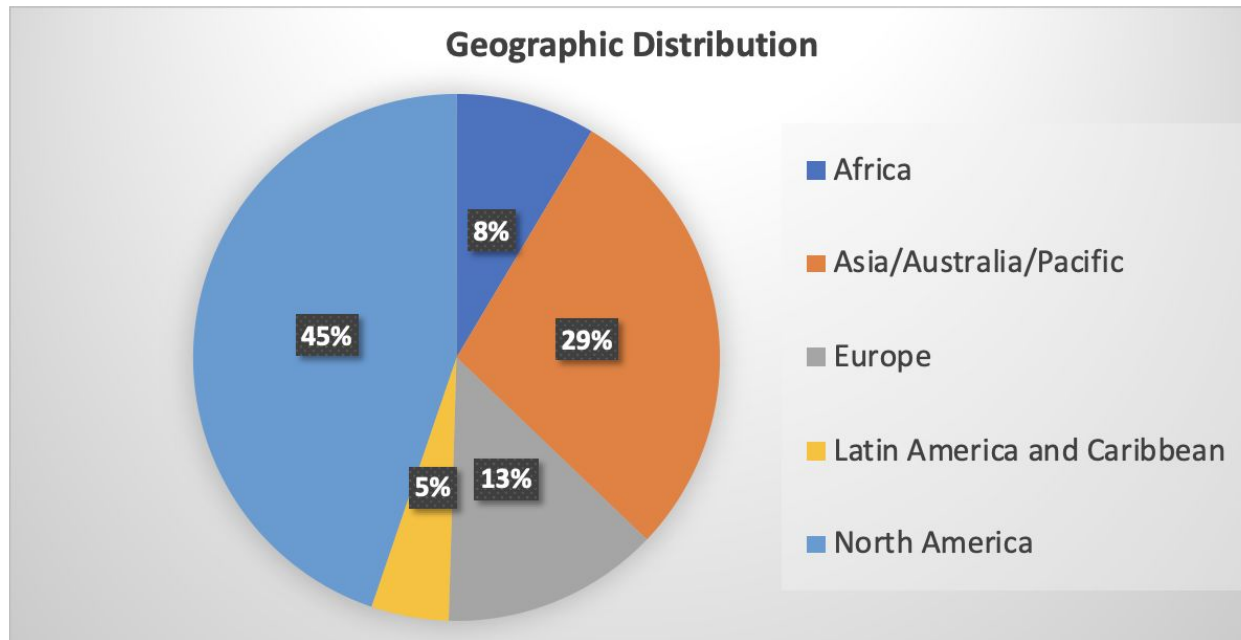
- Ozan Sahin - Izmir, Turkey



- Steve Sheng - Pennsylvania, USA

# Caucus Highlights (Ken)

- RSSAC Caucus Membership Data



	# of RSSAC Caucus Members
Africa	9
Asia/Aus/Pac	30
Europe	14
Latin Am./Car	5
North Am.	47
<b>Total</b>	<b>105</b>

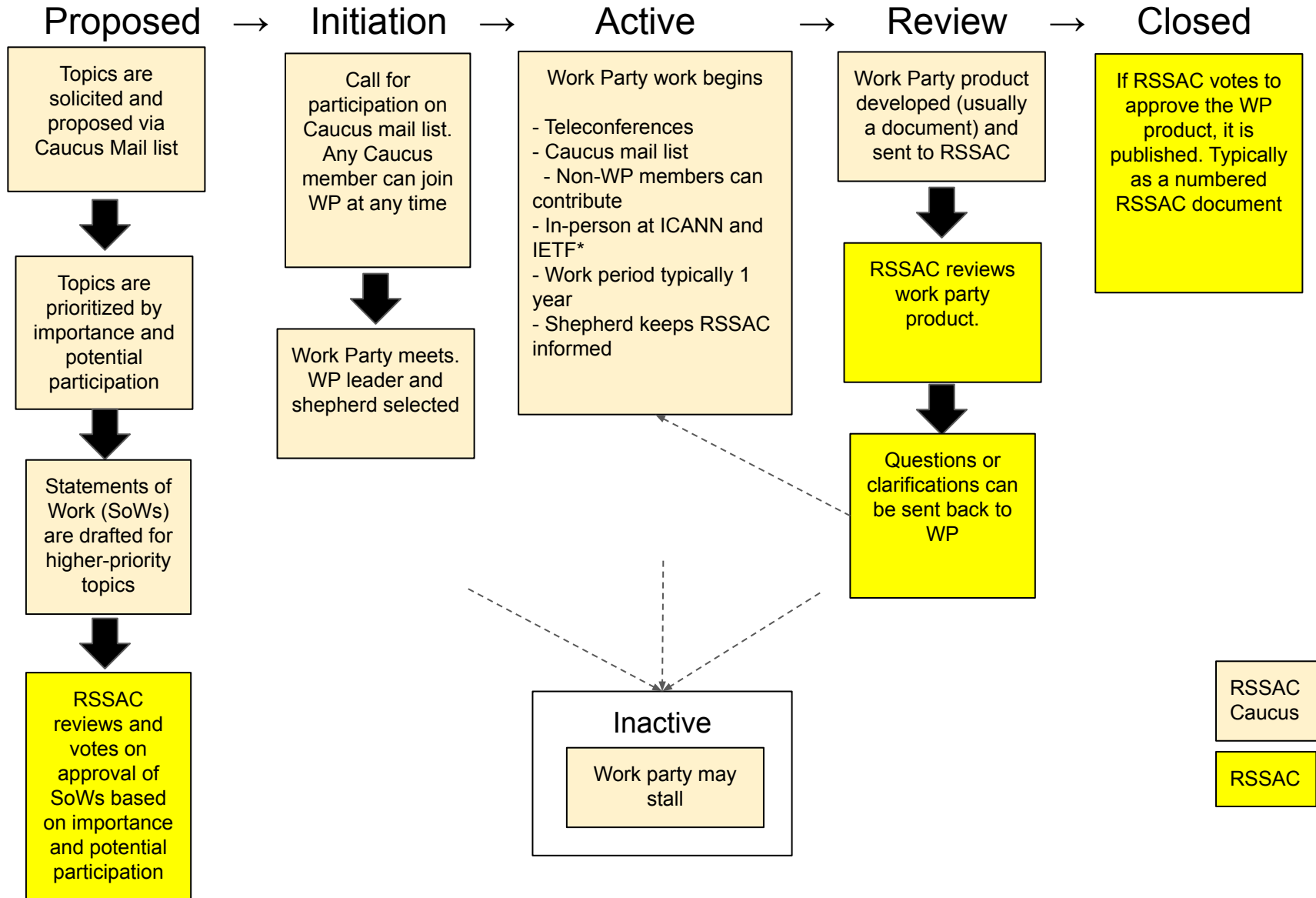
# Caucus Highlights (Ken)

## RSSAC Caucus Work Parties

- The RSSAC may call for an RSSAC Caucus work party consisting of RSSAC Caucus members to undertake a specific work assignment within the RSSAC Caucus.
- Any RSSAC Caucus member can join any RSSAC Caucus work party at any time.
- RSSAC Caucus members are encouraged to participate actively in work parties and contribute to the output of work parties.
- The RSSAC appoints a shepherd to each RSSAC Caucus work party to help start the work party and to report back to the RSSAC.
- RSSAC Caucus work parties elect their own leaders.

# Caucus Highlights (Ken)

## Life Cycle of an RSSAC Caucus Work Party



# Caucus Highlights (Ken)

## How to Join RSSAC Caucus - 1

- Interested individuals should fill out the Statement of Interest (SOI) on <https://www.icann.org/groups/rssac-caucus>
- SOI should include
  - Name
  - Affiliation and current position
  - Relevant qualifications
  - Motivation for membership in the RSSAC Caucus
  - Indication of availability
  - Formal roles (if any) and interests in the work of RSSAC
  - Links where appropriate

# Caucus Highlights (Ken)

## How to Join RSSAC Caucus - 2

- Points of Consideration
  - DNS Community Experience
    - Participation in various community workshops and meetings, including but not limited to: ICANN meetings, relevant IETF working groups, DNS-OARC workshops
    - Participation in relevant mailing lists
  - DNS Knowledge
    - Operational experience running the DNS infrastructure and/or helped with a DNS-related internet draft and/or participated in the development of DNS server software or hardware
    - Specific understanding of the root server ecosystem
    - DNS protocol knowledge
  - Commitment to Participate
    - Available to attend or dial in to at least one RSSAC Caucus meeting per year
    - Willingness to join and participate in an RSSAC Caucus working group

# Caucus Highlights (Ken)

## RSSAC Caucus Member Recognition

- On an annual basis, the RSSAC Caucus Membership Committee works with the RSSAC Admin Committee to identify RSSAC Caucus member(s) and recommend this member(s) to the RSSAC for special recognition.
- This determination will be based on the following considerations:
  - Material contributions to RSSAC Caucus publications, either in progress or published within this calendar year
  - Leadership roles in the RSSAC Caucus Work Parties
  - Any outgoing representative or liaison roles served
  - Any additional contributions to RSSAC Caucus work



# Questions?

- **For more information on the RSSAC**
- Main webpage  
<https://www.icann.org/groups/rssac>
- Frequently Asked Questions  
<https://www.icann.org/groups/rssac/faq>
- For general questions  
ask-rssac@icann.org
  
- **For more information on the RSSAC Caucus**
- Main webpage  
<https://www.icann.org/groups/rssac-caucus>
- To apply send email to  
rssac-membership@icann.org