

Root Server Operators

July 2024 Meeting Report

On July 21, 2024, the root server operators met in Vancouver, BC prior to the IETF meeting. Representatives from all 12 organizations were present, with 23 attendees in person and 18 attendees remote.

Personnel Changes

The meeting opened with introductions and notice of any personnel changes since the last meeting. Personnel changes at IMRS were noted.

Alert System Test

A regularly scheduled test of the alert system was conducted. Everyone reported receiving the expected alert notifications via at least one method (SMS, voice, email). A few individuals reported not receiving the alert via either voice or SMS.

TSIG Key

As part of the procedure for generating a new zone transfer TSIG key, all participants chose and spoke a word or phrase. The words will be collated and provided as a source of randomness when generating the key, which will be distributed after the meeting.

Incidents

Cogent provided an account of C-root serving stale data in May 2024. The public statement for this incident is available at <https://c.root-servers.org/> under the News heading.

Verisign reported a brief DDoS attack to A-root in July. The attack lasted only a few minutes but reached 45 Gbps spread among numerous anycast sites.

WIDE/JPRS reported one of their M-root sites being disconnected from the internet for approximately 12 days due to local civil unrest.

Architecture Presentation

The team from WIDE/JPRS gave a presentation on the architecture of operations for M-root and answered questions from the other RSOs.

RSSAC047 Study

A consortium of researchers from NLNet Labs and SIDN has been studying the initial implementation of RSSAC047 metrics. Consortium representatives presented their findings to date and answered questions from RSOs.

DITL Data Collection

DNS-OARC has made the DITL-2024 data available to members. Root server operators in general would like to know if the data provided by them is useful to researchers and DNS-OARC members. Verisign is sponsoring a DNS-OARC project to make DITL data easier to analyze.

Many RSOs now anonymize source addresses when contributing to DITL. Three use the same anonymization key. It was noted that it would be nice to know if any data consumers find this helpful.

Root KSK Rollovers

ICANN is proceeding with the next KSK rollover. KSK-2024 was replicated last week and is expected to appear in the root zone in January 2025.

RPKI Status

Service	IPv4 ROAs	IPv6 ROAs
A	Planned	Planned
B	Yes	Yes
C		
D	Yes	Yes
E		
F	Yes	Yes
G		
H		
I	Yes	Yes
J	Planned	Planned
K	Yes	Yes
L		
M	Planned	Yes
SNS	Planned	Planned

Collaboration Systems

The sysadmin group is close to migrating collaboration systems to new hardware and plans to meet later in the week.

External Communications

Since the previous meeting, a few representatives have begun working on a shared document to gather diversity data. This document is to be shared among RSOs internally. Once all RSOs have contributed the necessary information, the RSOs will publish a high-level, aggregated diversity report.

Root Server System Governance Working Group Update

A brief update on the RSS GWG was given for any RSO participants that are not already participating in the GWG. A discussion took place on what the RSOs might be able to do in the near future to demonstrate their commitment to principles developed by the GWG.

Root Server System Advisory Committee Update

Representatives from RSSAC provided updates on the committee's recent activities, including RSSAC messaging, the work party on security incident reporting, and the work party on changing root server IP addresses.

Root Zone Evolution Review Committee Update

RZERC has not been meeting recently. The RSSAC has appointed a new person as their liaison to RZERC.

Legal or Regulatory impacts on RSO Operations

An RSO observed attempts or desires by some countries to restrict which operating systems may be used within their jurisdiction.

Meeting Sponsors

The three RSOs that previously volunteered to sponsor the July meeting were reminded to expect invoices. For the upcoming meeting in November, three RSOs have already volunteered to cover the costs.