

Root Server Operators

July 2025 Meeting Report

On July 20, 2025, the root server operators met in Madrid, Spain prior to the IETF meeting. Representatives from all 12 organizations were present, with 22 attendees in person and 13 attendees remote.

Personnel Changes

The meeting opened with introductions and notice of any personnel changes since the last meeting. Personnel changes at DOD-NIC, ISC, and Verisign 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). There were no reports of missed notifications.

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

The apparent route hijack of multiple root server prefixes on June 20 was discussed. Note that a report on this incident was published on the rootops site on July 3rd.

Two RSOs experienced a relatively large, but brief DDoS attack toward the end of June with a mixture of both large and small UDP packets sent to port 53. Much of the attack traffic contained random data packets that were not valid DNS messages.

One RSO noted they have observed very long-lived TCP sessions with millions of repeated DNS queries.

Architecture Presentation

The team from ICANN gave a presentation on the architecture and operations for L-root and answered questions from the other RSOs.

Data Collection

Representatives from ICANN Org asked the RSOs to provide data in support of their Name Collision Observatory. This new service will help applicants of new gTLDs understand any name collision risks as part of the application and evaluation process.

Root KSK Rollovers

The root zone KSK rollover remains in its current phase (“D”) until October 2026.

RPKI Status

Service	IPv4 ROAs	IPv6 ROAs	Validating
A	Yes	Yes	No
B	Yes	Yes	
C			
D	Yes	Yes	No
E			
F	Yes	Yes	No, but monitoring
G			
H		Researching	
I	Yes	Yes	No
J	Yes	Yes	No
K	Yes	Yes	No
L			
M	Yes	Yes	No
SNS	Planned	Planned	

External Communications

A high-level diversity report was published following the March meeting. The group discussed the feedback received following the report’s publication.

A report on the June 20, 2025 BGP hijack was published on July 3rd.

Root Server System Governance Working Group Update

The RSS GWG is preparing to deliver its final documents for public comment starting in August. RSOs were reminded to engage with their GWG representatives and others within their organizations regarding this milestone for the GWG.

Root Server System Advisory Committee Update

RSSAC061 “Guidelines for Changing IP Addresses” was published on March 12, 2025.

RSSAC062 “Security Incident Reporting” was published on May 6, 2025.

RSSAC is currently working on version 3 of RSSAC001 “Service Expectations of Root Servers Operators”. RSOs are encouraged to participate in the work party.

Root Zone Evolution Review Committee Update

RZERC continues to discuss a proposal to sign the root-servers.net zone with DNSSEC. Input has been received from IANA, the Root Zone Maintainer, and RSSAC.

Meeting Expenses

Only one RSO has volunteered to cover costs for this meeting. Two RSOs have volunteered to cover costs for the November meeting.