# Root Server Operators
# November 2025 Meeting Report

On November 2, 2025, the root server operators met in Montreal, Canada prior to the IETF meeting. Representatives from all 12 organizations were present, with 21 attendees in person and 16 attendees remote.

## Personnel Changes

The meeting opened with introductions and notice of any personnel changes since the last meeting. Personnel changes at UMD, USC/ISI, Verisign, and WIDE/JPRS 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

During the meeting two incidents were reviewed. Both incidents were previously discussed via email when they occurred.

One RSO reported a large DDoS attack whose duration was approximately 40 minutes. This attack saturated the RSOs connectivity at one exchange point for approximately 10 minutes and resulted in some packet loss.

One RSO reported a small DDoS attack whose duration was approximately 15 minutes. This attack led to apparent control plane instability in one of the RSOs routers.

## Architecture Presentation

The team from Verisign gave a presentation on the architecture and operations for A-root and J-root and answered questions from the other RSOs.

## Data Collection

Previously ICANN Org asked the RSOs to provide data in support of their Name Collision Observatory. Five RSOs have reported they are contributing or will soon be contributing this data to ICANN.

## 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 | No |
| 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 | Partial | Partial | |

## External Communications

No new reports since our last meeting.

RSOs discussed providing an updated Technical Diversity Report in early 2026.

## Root Server System Governance Working Group Update

The RSS GWG has delivered two documents for public comment. The GWG is now iterating through the comments that have been received. RSOs were reminded to engage with their GWG representatives and others within their organizations.

## Root Server System Advisory Committee Update

An update was provided on the RSSAC001v3 “Service Expectations of Root Servers Operators” work party.

## Root Zone Evolution Review Committee Update

An update was given on RZERC’s ongoing deliberations over a proposal to sign the root-servers.net zone with DNSSEC.

## Meeting Expenses

Three RSOs have offered to cover costs for this meeting.

## Any Other Business

A recent Internet-Draft proposing to make RFC 8806 “Local Root” a common practice was discussed at some length.