Number Resource Organization Report

ARIN 55

Charlotte, NC, USA

April 2025

What is the NRO ?

- Number Resource Organization

    - NRO MoU, 24 Oct 2003

- Addendum signed in July 2020 which include the below agreements:

    - Not to take action that would violate Internet Number Registry System (INRS) uniqueness.
    - To take effective measures to promote Internet INRS.
    - To publish INRS entries publicly, so as to enable timely global Internet operations.
    - To cooperate together in the provision of consistent, effective global INRS

https://www.nro.net

What is the NRO ?

During 2022 The NRO reviewed its strategy plan.

- **Mission**
  - To coordinate and support joint activities of the RIRs to provide and promote the Joint Internet Numbers Registry.

- **Vision**
  - To be the flagship and global leader for collaborative Internet number resource management as a central element of an open, stable and secure Internet.

NRO EC Structure (2025)

- **Executive committee**
  - Hans Petter Holen(Chair) – RIPE NCC
  - John Curran (Vice Chair - Secretary)- ARIN
  - Jia Rong Low (Treasurer) – APNIC
  - Ernesto Majo – LACNIC
  - *Vacant* - AFRINIC

- **Permanent Secretariat**
  - Hosted by APNIC
  - Executive Secretary: German Valdez – Based in APNIC
  - Consultant: Laureana Pavon – Based in LACNIC

NRO RPKI Program

Purpose: "**To provide a more consistent and uniformly secure, resilient and reliable RPKI service**"

Program Goals:
- Entities interacting with multiple RIRs are able to do so through a single spec interface.
- Improved transparency on the robustness of the RPKI system
- Enhanced security consistency of the RPKI system across the different RIRs

Program webpage:

https://www.nro.net/technicalcoordination/security/certification/#rpki_program

NRO Coordination Groups

NRO Coordination Groups. All coordination costs are absorbed by each RIR.

- CCG (Communications),
- ECG (Engineering),
- RSCG (Registration Services),
- Public Safety (PSCG)
- Public Affairs,
- Policy,
- Financial Officers,
- Legal Staff,
- Human Resources

Finances 2025

- General operations: USD $628,833
  - ASO, NRO and IANA Review Committee Secretariat support.
  - RPKI Program Operations
  - ASO and NRO Meetings and Communications
  - ASO AC Chair travel to ICANN Meetings
  - Internet Governance Support
  - Secretariat Cost
- Contribution to ICANN: USD $823,000 (IANA Contract USD $650,000 and voluntary contribution USD $173,000)
- Stability Fund. (*Updated on October 2022*)
  - Joint RIR provision/pledge of USD $2.65M (Not Part of NRO Budget)
  - https://www.nro.net/joint-rir-stability-fund

Finances 2025

Cost distribution based on 2024 RIR Registration Services Revenue. Based on 4 RIRs

Regional Internet Registry	2025 NRO Cost Distribution
AFRINIC	-
APNIC	21.25%
ARIN	32.71%
LACNIC	12.09%
RIPE NCC	33.94%

AFRINIC Situation

NRO EC has closely monitored the AFRINIC's situation. Efforts have included:

- Close coordination with ICANN Leadership.
- Offering support to the Private Receiver if requested.
- Increasing engagement with the African Internet community in collaboration with other Internet organizations.
- Supporting and participating in the Africa Internet Summit annual event.

ICP-2 Review

ICP-2 it's a 2001 ICANN Internet Coordination Policy for the recognition of new RIRs.

On 25 October 2023, the NRO EC asked the ASO AC to help with two tasks

aimed at strengthening the RIR system:

- ICP-2 Implementation Procedures: Review and advise the NRO EC on its draft of procedures for validating and addressing ongoing RIR compliance with ICP-2 ("Implementation Procedures")
- Strengthening ICP-2: Establish and manage a process to update ICP-2 in 2024/2025 to provide the RIR system with better accountability to the Internet community.

- A global consultation on the update on the ICP-2 document was conducted in 2024. Report https://www.nro.net/icp-2-global-consultation-report
- A new public comment consultation is now open for the new RIR governance document that serves as the new version of the ICP-2 document https://www.nro.net/consultation-RIR-governance-document

Publications

- **Global Internet Number Stats**
  - Internet Number Resources Status Report (updated quarterly)
  - Global stats on IPv4, IPv6, ASN (updated daily)
  - RPKI Adoption Reports by IPv4, IPv6, economy (updated daily)
  - https://www.nro.net/statistics
- **Comparative Policy Overview**
  - Updated quarterly
  - Information on RIRs Membership policies (access to delegation and registration services)
  - https://www.nro.net/rir-comparative-policy-overview

IANA Review Committee

Advise and assist the NRO EC in its review of the service level of the IANA Numbering Services provided to the Internet Number Community.

- Three members from each region
  - Two community-elected members, One RIR staff representative

- Public archives and minutes
  - https://www.nro.net/iana-numbering-services-review-committee/

- 2024 IANA Numbering Services Review Committee Report Published in March 2025
  - https://www.nro.net/2024-IANA-RC-Report

2025 IANA Review Committee Members

- **AFRINIC**
  - TBC
  - Madhvi Gokool (staff)

- **APNIC**
  - Ching-Heng Ku, Dibya Khatiwada (Community)
  - Vivek Nigam (staff)

- **ARIN**
  - **Amy Potter, Nick Nugent (CHAIR) (Community)**
  - John Sweeting (staff)

- **LACNIC**
  - Nathalia Sautchuk Patricio, Lia Solis (Community)
  - Alfredo Verderosa (staff)

- **RIPE NCC**
  - Constanze Bürger, Andrei Robachevsky (Community)
  - Marco Schmidt (staff)

IANA SLA Amendment

- In November 2024 ICANN and the RIRs signed the first amendment to the IANA Service Level Agreement
- ICANN agreed to include Reverse DNS Resolution Services affecting the below zones:
  - IP6.ARPA
  - IN-ADDR.ARPA
  - IP6-SERVERS.ARPA
  - IN-ADDR.SERVERS.ARPA

ICANN Empowered Community

NRO EC adopted ASO empowered community procedures.

- ASO Procedure for Empowered Community Approval Actions
- ASO Procedure for Empowered Community Rejection Actions
- ASO Procedure for Director Removal Actions
- ASO Standard Practices for Empowered Community Activities

https://www.nro.net/about-the-nro/aso-procedures-for-empowered-community-powers/

Thank You

NRO Statistics
www.nro.net/statistics

NRO Website
https://www.nro.net