Number Resource Organization Report

ARIN 54

Toronto, Canada

October 2024

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 (2024)

- **Executive committee**
  - Oscar Robles (Chair) - LACNIC
  - John Curran (Vice Chair - Secretary)- ARIN
  - Hans Petter Holen (Treasurer) – RIPE NCC
  - Jian Rong Low – APNIC
  - *TBC* - AFRINIC

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

NRO Strategy Plan Implementation

Three new programs were agreed as result of the NRO strategy review.

- RPKI
- RIR Cybersecurity
- Government Engagement

RPKI Program started in 2024.

The other programs will be reviewed by the NRO EC before start their implementation.

NRO programs are part of the NRO Budget.

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 will continue global coordination with a more autonomous approach. All coordination costs will be absorbed by each RIR.

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

Finances 2024

- General operations: USD $939,700
  - ASO, NRO and IANA Review Committee Secretariat support.
  - RPKI Program Operations and 2 New Programs implementation
  - NRO Meetings and Communications (teleconferences)
  - ASO AC Chair travel to ICANN Meetings
  - Internet Governance Support
  - AFRINIC Support

- 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 2024

Cost distribution based on 2023 RIR Registration Services Revenue. Based on 4 RIRs

Regional Internet Registry	2022 NRO Cost Distribution
AFRINIC	-
APNIC	20.42%
ARIN	31.88%
LACNIC	11.76%
RIPE NCC	35.95%

AFRINIC Situation

NRO EC has closely monitored the AFRINIC's situation by

- Providing on-site legal support
- Closed coordination with ICANN Leadership
- Looking for a renewed engagement with Africa Internet community in collaboration with other Internet organizations.

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 is currently underway organized by the ASO on behalf of the NRO <URL>

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/

- 2023 IANA Numbering Services Review Committee Report Published in February 2024
    - https://www.nro.net/2023-IANA-RC-Report

IANA Review Committee Members

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

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

- **ARIN**
  - **Chris Quesada, Nick Nugent (Community)**
  - John Sweeting (staff)

- **LACNIC**
  - Nathalia Sautchuk Patricio (*VICE CHAIR*), Sergio Rojas(Community)
  - Ernesto Majó (staff)

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

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