

# 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](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](http://www.nro.net/statistics)

NRO Website  
<https://www.nro.net>