



Number Resource Organization Report

ARIN 53

Bridgetown Barbados

April 2024

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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>

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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
 - Paul Wilson – APNIC
 - *TBD* - AFRINIC

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

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NRO Strategy Plan Implementation

Three new programs to be implemented in 2023 as part of the NRO structure:

- **RPKI**
- **RIR Cybersecurity**
- **Government Engagement**

New programs will become part of the NRO Budget.

NRO RPKI Program is underway starting in January 2024



NRO RPKI Program

- Started in January 2024
- Lead by Program Manager Sofia Silva
- Coordination with the RIR RPKI Steering Group and supervised by the NRO EC.
 - **The NRO RPKI Program aims to provide a more consistent and uniformly secure, resilient, and reliable RPKI service to help remove barriers currently experienced by network operators who create RPKI objects through multiple RIRs.**
- More Information:
 - <https://www.nro.net/technical-coordination/security/certification/>
 - <https://www.arin.net/blog/2024/03/11/improving-rir-alignment-rpki/>



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.
 - NRO Meetings and Communications (teleconferences)
 - ASO AC Chair travel to ICANN Meetings
 - Internet Governance Support
 - NRO Programs
 - 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
 - <https://www.nro.net/joint-rir-stability-fund>



Finances 2024

Cost distribution based on 2023 RIR Registration Services Revenue.

| Regional Internet Registry | 2023 NRO Cost Distribution |
|----------------------------|----------------------------|
| AFRINIC | 6.48% |
| APNIC | 19.09% |
| ARIN | 29.81% |
| LACNIC | 10.99% |
| RIPE NCC | 33.62% |

** NRO EC agreed to RIRs (excluded AFRINIC for the moment) to contribute to cover NRO cash needs.*

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AFRINIC Situation

NRO EC has closely monitored the AFRINIC's situation by

- Providing on-site legal support
- Closed and constant coordination with ICANN Leadership
- Looking for a renewed engagement with Africa Internet community in collaboration with other Internet organizations.
- Supporting the organization of board elections according and respecting Mauritius legal system

AFRINIC has been continuously providing registration services within their region during all this time.



ICP-2 Review

- NRO EC requested to the ASO AC to review the ICP-2 document after more than 2 decades of existence.
- ICP-2Review will focus on:
 - **ICP-2 implementation procedures.** ICP-2 requirements are also applicable to the maintenance of that accreditation, but ICP-2 lacks corresponding procedures for the validation of initial or ongoing compliance, for review of compliance, or for specific outcomes of a review process.
 - **A comprehensive update of ICP-2 Document.** A multiannual plan should include an outline on what the process will be, a timeline and how they will engage with the community.
- Documentation is currently in pre-release form but all information will be published in the ASO website.



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 March 2023
 - <https://www.nro.net/2023-IANA-RC-Report>



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/>



- Questions