



*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 Update

APNIC 48

Chiang Mai

September 2019

# What is the NRO ?

Number Resource Organization

- NRO MoU, 24 Oct 2003

Mission

- Coordinating the RIR system and joint RIR activities
- Promote the multi-stakeholder model and bottom-up policy development
- Fulfill the role of the ICANN ASO
- <https://www.nro.net>

# Structure (2019)

## Executive committee

- Axel Pawlik (Chair and Secretary) - RIPE NCC
- Paul Wilson (Vice Chair) - APNIC
- Oscar Robles (Treasurer) - LACNIC
- John Curran - ARIN
- Patrisse Dessee - AFRINIC (interim)

## Secretariat

- Hosted by APNIC
- Executive Secretary: German Valdez
- Consultant: Susannah Gray

## Coordination Groups (Included in NRO Budget)

- CCG (Communications), ECG (Engineering), RSCG (Registration Services), Public Safety (in creation)

## Informal Groups

- Public Affairs, Policy, Financial Officers, Legal Staff, Human Resources

# Publications

## Internet Number Status Report

- Updated quarterly.
- Global stats on IPv4, IPv6, ASN, IPv4 Transfers
- New extended stats released in 2019 Q1
- RPKI Adoption Reports – **NEW May 2019**
- <https://www.nro.net/statistics>

## Comparative Policy Overview

- Updated quarterly
- Information on RIRs membership policy (access to delegation and registration services)
- <https://www.nro.net/rir-comparative-policy-overview>

## Address Supporting Organization

- <https://aso.icann.org>

# Finances 2019

## Budget 2019

- General operations: USD \$560,000
  - ASO, NRO and IANA Review Committee Secretariat support.
  - Communications (teleconferences)
  - ASO AC Chair travel
  - Coordination Group meeting expenses
  - IGF Contributions \$125,000

Contribution to ICANN: USD \$823,000 (IANA Contract USD \$650,00 and voluntary contribution USD \$173,000 )

## Stability Fund

- Joint RIR provision/pledge of over USD \$2.1M
- <https://www.nro.net/joint-rir-stability-fund>

# Finances 2019

Cost distribution based on 2018 RIR Registration Services Revenue

2019 Cost Distribution	
AFRINIC	7.57%
APNIC	22.02%
ARIN	27.74%
LACNIC	10.82%
RIPE NCC	31.85%

# 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.

3 members from each region

- 2 community elected members, 1 RIR staff rep

Public archives and minutes

- <https://www.nro.net/iana-numbering-services-review-committee/>

2018 IANA Numbering Services Review Committee Report Published on March 2018

- <https://www.nro.net/2018-iana-numbering-services-review-committee-report-published/>

# Review Committee (2019)

## AFRINIC

- Omo Oaiya, Noah Maina (Community)
- Madhvi Gokool (staff)

## APNIC

- **Bertrand Cherrier, Syam Zulfadly (Community)**
- **George Kuo (staff)**

## ARIN

- Louie Lee, Jason Schiller (Community)
- Richard Jimmerson (staff)

## LACNIC

- Glenn Peace, Juan Alejo Peirano (Community)
- Ernesto Majó (staff)

## RIPE NCC

- Filiz Yilmaz, Nurani Nimpuno (Community)
- Felipe Silveira (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/>

# ASO Review

## ASO MoU...

- *“the NRO shall provide a periodic review of the ASO’s effectiveness within ICANN”*

1<sup>st</sup> review conducted in 2011

## Timeline and announcements

- <https://www.nro.net/about-the-nro/aso-independent-review-2017/>

Final report published 8 August 2017

- <https://www.nro.net/aso-review-2017>

# ASO Review

RIR community consultation for the implementation of the recommendations

- <https://www.nro.net/about-the-nro/aso-independent-review-2017/>

Input by the NRO Executive Council on the Public Consultation to Determine the Future Structure of the ASO

- <https://www.nro.net/input-by-the-nro-executive-council-on-the-public-consultation-to-determine-the-future-structure-of-the-aso/>

ASO Review 2017: Recommendation Implementation Status

- <https://www.nro.net/accountability/aso-and-icann-accountability/independent-aso-reviews/aso-review-2017/>

# Technical Projects

Emergency Backup Operations Project. Ongoing

Extended RIR Internet Number Status Report (including information on inter RIR transfers). Implemented Q1 2018.

RDAP

Identifier Technology Health Indicator (ITHI). Ongoing in coordination with ICANN.

NRO Website Revamp.

- New Website launched on October 2018

ASO Website Revamp

- New Website to be launched on Q4 2019



**Thank You**