

"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**

ARIN 49

24 - 27 April 2022

#### What is the NRO?

#### **Number Resource Organization**

NRO MoU, 24 Oct 2003

### Addendum signed in July 2020

- 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?

#### **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.

#### **Currently under review.**



## NRO Structure (2022)

#### **Executive committee**

- Paul Wilson (Chair) APNIC
- Hans Petter Holen (Vice-Chair/Secretary)
  - RIPE NCC
- John Curran (Treasurer) ARIN
- Oscar Robles LACNIC
- Eddy Kayihura AFRINIC

#### **Permanent Secretariat**

- Executive Secretary: German Valdez Based in APNIC
- Consultant: Laureana Pavon Based in LACNIC



## NRO Structure (2022)

#### **Coordination Groups**

- With annual workplan and budget:
  - CCG (Communications)
  - ECG (Engineering)
  - RSCG (Registration Services)
  - Public Safety (PSCG)

#### **Informal Groups**

- No formal workplan or budget:
  - Public Affairs
  - Policy
  - Financial Officers
  - Legal Staff
  - Human Resources



### The review identified three priority goals:

- Provide a robust, secure, <u>coordinated RPKI service</u>
- Ensure the <u>cybersecurity of the RIRs</u>
- Proactively <u>engage governments</u> as critical stakeholders in INRS

## Each goal assigned to a formal NRO Program

- Led by a dedicated Program Manager
- Reporting directly to the NRO EC
- Funded by the NRO

Implementation planning underway.



## **NRO Strategic Review 2022**

#### **Coordination Groups**

- No longer "tasked" with major NRO priorities
- Self-directed routine coordination
- Sharing of knowledge and experience



## NRO Budget 2022 (USD)

### General operations: \$496,000

- NRO EC/CG, ASO AC, and IANA RC support
- Communications and operations
- AC Chair travels
- CG meeting expenses

### **IGF Contributions: \$133,500**

### Contribution to ICANN: \$823,000

- IANA Contract: \$650,000
- Voluntary contribution: USD \$173,000

Total: \$1,452,500



## NRO Budget 2022

#### NRO cost distribution formula

Based on 2021 RIR Registration Services Revenue

RIR	Share
AFRINIC	6.49%
APNIC	20.90%
ARIN	23.60%
LACNIC	10.67%
RIPE NCC	38.33%



## RIR Stability Fund

### **RIR Stability Fund**

- Combined RIR pledges of over USD \$2.1M
- To be drawn on by mutual (board) agreement

### **AFRINIC legal support**

- In February 2022, the NRO EC agreed to contribute \$250,000 to AFRINIC legal representation expenses incurred in 2021
  - Charged to 2021 NRO budget

https://www.nro.net/joint-rir-stability-fund



#### **Publications**

#### **Global Internet Number Reports**

- INR Status (updated quarterly)
- Global stats on IPv4, IPv6, ASN (updated daily)
- RPKI Adoption by IPv4, IPv6, economy (updated daily)
- https://www.nro.net/statistics

#### **Comparative Policy Overview**

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



#### **IANA Review Committee**

#### IANA RC

- Purpose
  - To advise and assist the NRO in its review of service level of the IANA Numbering Services
- 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/
- 2021 Report Published in March 2022
  - https://www.nro.net/2021-IANA-RC-Report



#### **IANA Review Committee**

#### **AFRINIC**

- Saul Stein, Mike Silber (Community)
- Madhvi Gokool (staff)

#### **APNIC**

- Ching-Heng Ku, Satoru Tsurumaki (Community)
- Guangliang Pan (staff)

#### **ARIN**

- Chris Quesada, Martin Hannigan (CHAIR) (Community)
- John Sweeting (staff)

#### **LACNIC**

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

#### **RIPE NCC**

- James Kennedy, Sander Steffan (Community)
- Marco Schmidt (staff)



# **Thank You**