



# NRO update

Adiel Akplogan

NRO EC Secretary



# What is the NRO?

- Number Resource Organization
  - Vehicle for RIR cooperation and representation
  - Lightweight, unincorporated association
  - NRO MoU, 24 Oct 2003
- Why?
  - Protect the unallocated Number Resource pool
  - Promote and protect the bottom-up policy development process
  - Act as a focal point for input into the RIR system
  - Fulfill the role of the ICANN Address Supporting Organisation (ASO)

# NRO structure

- Executive Committee
  - 1 appointed representative from each RIR, plus RIR board and staff observers
  - 3 officeholder positions, rotating annually
  - Decisions by unanimous EC agreement
- Secretariat
  - Rotating with NRO Secretary position
- Executive Secretary
  - New permanent role to support ASO and NRO activities
  - German Valdez appointed on April 2013 (german@nro.net)
- Coordination Groups
  - Engineering (ECG), Communications (CCG), Public Affairs (PACG), IPv6 (IPv6CG) and Registration Services Managers (RSM).

# NRO in 2013

- Executive committee
  - AFRINIC: Adiel Akplogan (Secretary)
  - APNIC: Paul Wilson (Chair)
  - ARIN: John Curran
  - LACNIC: Raul Echeberria
  - RIPE NCC: Axel Pawlik (Treasurer)
- Secretariat
  - Hosted by AFRINIC

# ASO: What is it?

- Address Supporting Organisation
  - ASO MoU, 21 October 2004
- Recognised under the ICANN Bylaws to:
  - Oversee global number resource policy work
  - Appoint 2 Directors to the ICANN Board
  - Appoint representatives to serve on various ICANN bodies as needed: (e.g. NomCom)
  - Advise ICANN Board on number resource matters
- ASO Address Council
  - 15 individuals, 3 per RIR region

# ASO: AC in 2013

|                 |  |
|-----------------|--|
| <b>AFRINIC</b>  | Fiona Asonga   |
|                 | Alan Barrett* (Vice-chair)   |
|                 | Douglas Onyango  |
| <b>APNIC</b>    | Naresh Ajwani (Vice-chair)   |
|                 | Tomohiro Fujisaki  |
|                 | Andy Linton*   |
| <b>ARIN</b>     | Louis Lee (Chair)  |
|                 | Jason Schiller  |
|                 | Ron da Silva*  |
| <b>LACNIC</b>   | Jorge Villa  |
|                 | Hartmut Glaser*  |
|                 | Ricardo Patara   |
| <b>RIPE NCC</b> | Hans Petter Holen  |
|                 | Dmitry Kohmanyuk   |
|                 | Wilfried Woeber*   |

\*Appointed by RIR Board

2001:610:240:0 193:0:0:202 62:109:128 195:048:02:03 193:0:0:203 195:048:02:03  
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 Number Resource Organization



# NRO Funding to ICANN

- NRO expenses distribution
  - Weighted formula based on revenue and total IPv4 resources allocated
    - AFRINIC (4.14%)
    - APNIC (37.50%)
    - ARIN (18.17%)
    - LACNIC (6.86%)
    - RIPE (33.45%)
- Voluntary Contribution
  - The NRO remains committed to a yearly contribution of \$823,000

# ASO Review

- Conducted July to December 2011
- Report published 14 March 2012
  - <http://aso.icann.org/news>
  - 26 recommendations
- NRO/ASO response 3 May 2012
  - <http://nro.net/news>
- Next:
  - Report to ICANN Structural Review Committee in ICANN 47 Durban.
  - Implementation by ASO and NRO (RIRs)

# New Global Policy

- GPP-IPv4-2011
  - Global Policy Proposal for Post Exhaustion IPv4 Allocation Mechanisms by IANA
  - Describes how IANA will re-allocate returned IPv4 resources
  - Ratified by ICANN Board: 15 May 2012
- Resources returned by three RIRs
  - APNIC
  - ARIN
  - RIPE



NRO

# Internet Governance Forum

- Multistakeholder Advisory Group (MAG)
  - NRO members on technical community slate
    - Raul Echeberria, Paul Rendek, Paul Wilson
- 7th IGF Meeting
  - Baku, 6 to 9 November 2012
  - NRO annual contribution doubled to 75K USD
  - NRO workshops
    - Moving to IPv6: Challenges for Internet Governance
    - Certifying Internet Number Resources: Internet Governance and RPKI
    - Participation in many other events, including closing remarks for technical community (Paul Wilson)



# Internet Governance cont.

- IGF Open Consultation February 2013.
  - NRO support to IGF and MS model
  - <http://www.nro.net/documents>
- CSTD
  - Working Group on IGF Improvements
  - <http://www.unctad.info/en/CstdWG>
- OECD & the NRO
  - Founding member of the Internet Technical Advisory Committee (ITAC)
  - Forums including the Working Party on Communications Infrastructure and Service Policy (CISP)

# 2012 Correspondence

- World Telecommunications Policy Forum (WTPF)
  - Nominated members to WTPF Expert Group
  - Encouraged the ITU Secretariat to continue opening its conferences to all stakeholders.
  - Calls for greater investment in IPv6 Deployment
- World Conference on International Telecommunications (WCIT)
  - Expressing concerns about inclusion of Internet matters in ITRs



# 2012 Correspondence

- IPv6 Outreach
  - Asking ITU SG to open discussions on IPv6 capacity building initiatives
  - NRO still awaiting ITU proposal
- IANA Functions Contract to ICANN
  - Welcoming the decision by US DoC
- <http://www.nro.net/documents>



# Other developments

- Retreat meetings February 2013 (SG)
  - “I\*” Group
  - NRO EC
- Increase IGF contribution from 2013
  - \$100,000
- Coordination groups
  - Registration Services
  - IPv6
- RPKI project management
  - Future planning and milestones

