RIPE Policy Development Process

With Current Policy Discussions
Overview

• RIPE

• RIPE Policy Development Process

• Current Issues
  - IPv4 Depletion
  - IPv6 and within-IPv4 Solutions
RIPE

- Folks in Europe talking about TCP/IP vs OSI
- 14 of them coming together in May 1989
- Operational coordination of IP networks
- Not a legal entity, no formal membership
- No voting, *consensus* is the magic word
- Has a chairman
- Work is done in Working Groups
  - There may be Task Forces (TFs)
RIPE

• RIPE WGs (http://www.ripe.net/ripe/wg/index.html)
  - Address Policy
  - Anti-Abuse
  - Cooperation
  - Database
  - DNS
  - EIX
  - ENUM
  - IPv6
  - RIPE NCC Services
  - Routing
  - Test-Traffic
RIPE

• Current TFs (http://www.ripe.net/ripe/tf/)
  - Data Protection
  - Certification
  - DNSSEC Key Repository
Policy Development Process: Community’s Answer to demand for change

- Need
- Propose
- Discuss
- Consensus
- Implement
- Evaluate

New Technology
New Business requirements

Industry requirements
RIPE PDP Principles

• Open
  - Anyone can participate
    • Only requirement is having an e-mail address
  - Mailing lists
  - Policy meetings

• Transparent
  - Mailing lists archived
  - Meetings scribed

• Developed Bottom-up
  - By the Internet Community

• Documented
  - RIPE Policy Documents
PDP Summary

• Industry environment and business requirements change
• PDP is there to meet this demand for change
• Policy specifics change
• Principles remain static
• Many policies stayed stable since the beginning
RIPE PDP Current Issues

• IPv4 depletion

• Policy solutions
  - Increase incentives for IPv6
  - Get ready for IPv4 afterlife
IPv6

• Proposal 2006-02: IPv6 for LIRs

• IPv6 Allocation criteria altered
  - No more requirement for assignments to *others*
  - No more requirement for 200 customers

• New End Site definition
  - LIRs internal assignments count as End Site

• Plan to make sub-allocations to others or assignments to End Sites
IPv6

- Proposal 2006-01: IPv6 PI for End Users
- Be multihomed
- Minimum /48
- Designated block to facilitate filtering practices
Currently under discussion

• Proposal 2009-06:
  - Removing routing requirements from the policy

• Proposal 2009-08:
  - IPv6 PI Assignments for LIRs
Global Perspective: End of IPv4 free pool

- Global Policy for the Allocation of the Remaining IPv4 Address Space (2008-03)
  - Accepted by all regions and documented
    - http://www.ripe.net/ripe/docs/ripe-436.html
  - ICANN ratified
  - Distribute the last 5 /8s evenly among RIRs (N=1)

- Global Policy for the allocation of IPv4 blocks to Regional Internet Registries (2009-01)
  - After IANA pools run out
  - Dealing with returned space
  - Under discussion
RIPE Regional: Getting ready…

• Direct Internet Resource Assignments to End Users from the RIPE NCC (2007-01)
  - Contractual relationship for all independent number resources to an End User
  - Have a contract with
    • a sponsoring LIR or
    • the RIPE NCC
  - Applies to previously made assignments
    - Excluding Legacy (pre-RIR) registrations
  - Accepted and (being) implemented in Phases
    - http://www.ripe.net/ripe/docs/ipv4-policies.html
    - http://www.ripe.net/ripe/docs/contract-req.html
Transfers

• Enabling Methods for Reallocation of IPv4 Resources (2007-08)
  - IPv4 Exhaustion
  - Applies only to IPv4 PA allocations
  - Only within the RIPE region
  - Similar concept accepted in ARIN and APNIC
  - Accepted and implemented
    • http://www.ripe.net/ripe/docs/ipv4-policies.html
Currently under discussion

• Usage of Last /8 (2008-06)
  - Framework for the usage of the very last block
  - Everyone knows what to expect

• IPv4 Allocation and Assignments to Facilitate IPv6 Deployment (2009-04)
  - Reservations for NATs
Currently under discussion

• Ensuring efficient use of historical IPv4 resources (2008-07)
  - Efficiency in old registrations

• Run out Fairly (2009-03)
  - Gradual reduction on the allocation and assignment periods
  - Avoid a very large request pre-empting others
Conclusion

• Increase IPv6 deployment
  - Easier access to resources
  - Raise awareness

• Get ready for IPv4 afterlife
  - Minimise the impact
  - Increased contact to space holders
  - Increased efficiency in usage
  - Enabling usage of allocated but unused space
  - Pre-RIR blocks to be included in the system
  - Focus on fairness and responsible stewardship
References

• RIPE PDP
  - http://www.ripe.net/ripe/docs/pdp.html

• Document Store
  - http://www.ripe.net/ripe/docs/

• Current Proposals
  - http://www.ripe.net/ripe/policies/proposals/

• Archived Proposals
  - http://www.ripe.net/ripe/policies/proposals/archive/

• Address Policy WG Mailing list

• Policy Announce Mailing List
Questions?