



# Current Policy Topics

## A Worldwide Look



# Crew Change

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# Overview

- RIPE Policy and Policy Development Process (PDP) Update
- Worldwide Look by Topic
  - IPv4 Afterlife
  - Prudence Proposals
  - Running out Fairly
  - Transfers
  - IPv6
  - ASN



# RIPE PDP Update - Archived

- Withdrawn
  - IPv6 ULA-Central (2007-05)
  - ASPLAIN Format for the Registration of 4-byte ASNs (2008-09)
    - RFC5396 published December 2008
    - Proposal became redundant
    - ASPLAIN instead of ASDOT since March 2009
      - In RIPE DB
      - Policy documents
      - FAQs, etc



# RIPE PDP Update - Archived

- Accepted
  - Direct Internet Resource Assignments to End Users from the RIPE NCC (2007-01)
    - Contractual Requirements for Provider Independent Resource Holders in the RIPE NCC Service Region (ripe-452)
    - IPv4, IPv6 and ASN policy documents
  - Enabling Methods for Reallocation of IPv4 Resources (2007-08)
  - Provider Independent (PI) IPv6 Assignments for End User Organisations (2006-01)
    - Implemented today!



# RIPE PDP Update - Ongoing

- Discussion Phase
  - Use of Final /8 (2008-06)
  - Ensuring Efficient Use of Historical IPv4 Resources (2008-07)
  - Initial Certification Policy for Provider Aggregatable Address Space Holders (2008-08)
  - Global Policy for the allocation of IPv4 blocks to Regional Internet Registries (2009-01)
  - Allocating/Assigning Resources to the RIPE NCC (2009-02)



# RIPE PDP Update - Ongoing

- Discussion Phase (continued):
  - Run Out Fairly (2009-03)
  - IPv4 Allocation and Assignments to Facilitate IPv6 Deployment (2009-04)
  - Multiple IPv6 /32 Allocations for LIRs (2009-05)
- Review:
  - PI Assignment Size (2006-05)
  - Anycasting Assignments for TLDs and Tier 0/1 ENUM (2008-05)



# Worldwide look by Topic







# Worldwide Look - IPv4

- IPv4 Afterlife
  - ARIN abandoned “IPv4 Recovery Fund”
    - financial incentives for returns
  - Global Policy for Allocation of IPv4 Blocks to Regional Internet Registries
    - RIR receives returned space, RIR returns space to IANA, IANA allocates back
    - ARIN version is different
      - Return of legacy space is mandatory, the rest optional
      - In others return of all space is mandatory



# Prudence Proposals

- ARIN adopted “Dedicated IPv4 blocks to facilitate IPv6 Deployment”
  - Reserve a /10
  - Minimum /28s, maximum /24s for key dual stack DNS servers, and NAT-PT or NAT464 translators
- APNIC adopted
  - Use of final /8
- LACNIC adopted
  - Last /8:
    - Reserve a /12
    - /22s for “new” ISPs and /24s for critical infrastructure



# Prudence Proposals

- AfriNIC discussing “IPv4 Soft Landing Policy”
  - One allocation per LIR
  - IPv6 adoption plan required
  - Allocation period to be set to 8 months (instead of 12 months)
  - /16 reservation for unforeseen circumstances
- APNIC adopted
  - Ensuring efficient use of historical IPv4 resources
- LACNIC discussing
  - Resource Recovery
  - Reducing the minimum allocation size to a /22



# Prudence Proposals

- ARIN abandoned “Depleted IPv4 reserves”
  - When ARIN pools reaches to its last /9
  - A single /20 within a six month period



# Running out Fairly

- APNIC abandoned
  - Gradually decreasing maximum allocation size
  - Reducing allocation period
- RIPE discussing
  - Gradually decreasing allocation and assignment periods



# Transfers

- ARIN has discussed three transfer proposals
  - Transfer proposal (now abandoned)
  - Emergency Transfer proposal (Adopted - implementation to be determined)
  - Transfer Policy (cleanup over the previous one)
- APNIC
  - Last Call ended on 1 May 2009
  - To discuss
    - Justifying receiving IPv4 address space
    - Reapplication limits when transferring address space
- LACNIC discussing



# Transfer Proposals Matrix

	APNIC	ARIN	LACNIC	RIPE
Prior RIR approval (need must be justified)		Yes	Yes	Yes
Min Block size	/24	Current	/24	Current
Block must be empty of End User assignments				Yes
Type of address space	All	All	All	Only PA
Transferring Org cannot receive space from the RIR within the next 24 months			Yes	
Recipient Org can not transfer the space within the next 24 months			Yes	Yes
Non-permanent transfers				Yes
Inter RIR transfers	Yes			



# Worldwide Look - IPv6

- Community Networks IPv6 Assignment in ARIN
- IPv6 Allocations to Non-Profit Networks in AfriNIC
- IPv6 Multiple Discrete Networks, proposal in ARIN
- LACNIC
  - (De)Aggregation
    - Remove “single” block announcement criteria
  - New allocation criteria
    - Having prior IPv4 space to suffice to receive IPv6 space





# Worldwide Look - ASNs

- LACNIC discussing 16-bit ASNs after 2010
  - Technical reasons why 32-bit cannot be used
  - 16-bit AS numbers will be assigned
- APNIC adopted intermediary stage
  - 1 July 2009: If 32bit is demonstrated to be unsuitable, 16bit assigned



# Policy Proposal Archives

- AfriNIC:  
<http://www.afrinic.net/policy.htm>
- ARIN:  
[http://www.arin.net/policy/proposals/proposal\\_archive.html](http://www.arin.net/policy/proposals/proposal_archive.html)
- APNIC:  
<http://www.apnic.net/docs/policy/proposals/archive.html>
- LACNIC:  
<http://lacnic.net/en/politicas/propuesta-politicas.html>
- RIPE:  
<http://www.ripe.net/ripe/policies/proposals/>
- RIR Comparative Policy Overview:  
<http://www.ripe.net/info/resource-admin/rir-comp-matrix-rev.html>



# Policy Document Update Update

- Started with RIPE PDP document
- Project Plan approved by AP WG Chairs
- First IPv6 IXP, ASN, IPv6 for Root Servers
- Move on with IPv4 and IPv6
- May take 1.5 to 2 years
- Transparency is the key:
  - Publish updated draft document
  - Community reviews for a month
  - AP WG Chairs declare consensus on draft



# Questions?

