APNIC Update

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PacNOG 11 02-07-2012

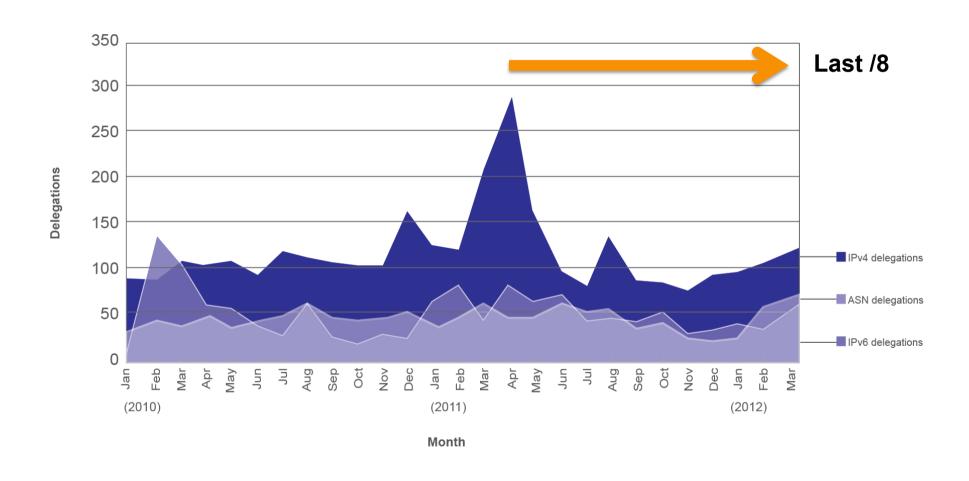




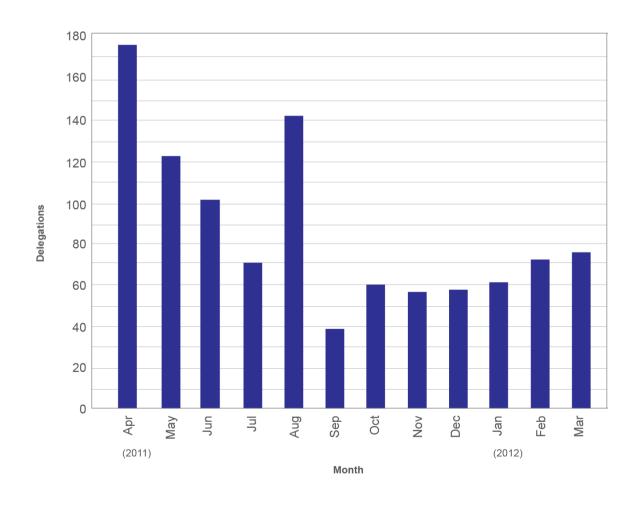
IPv4 Exhaustion

- Defined 3-stage process
 - Stage 1: normal allocations
 - Stage 2: modified evaluation process
 - Stage 3: "Final /8" policy (rationing)
- Stage 2
 - Strict serialisation of requests and responses
 - Collective evaluation by Hostmaster team
 - Ended on 15 April 2011
 - Approx 180 unfulfilled requests, no ongoing disputes
- Stage 3
 - Maximum allocation now /22 per organisation (from 103/8)

Resource Delegations



Last /8 IPv4 Delegations



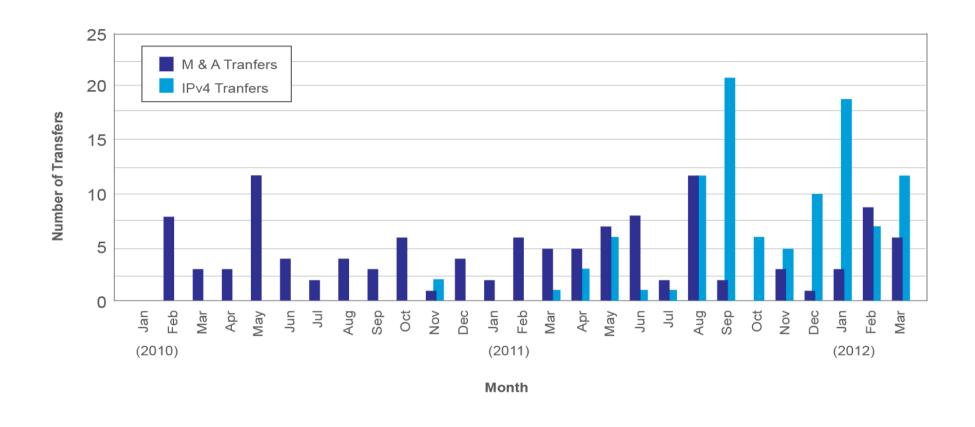
IPv4 Transfers

- Demonstrated need now required
 - prop-096 implemented November 2011
 - Except routine M&A transfers
- Pre-approval requests
 - Can be sought prior to transfer
 - Request process identical to traditional IPv4 address request
 - Pre-approval when granted is valid for 1 year
- Broker contract/agreement
 - Requires commitment to APNIC policies in all transactions
 - Contracted brokers will be listed and "recognised"
- Inter-regional transfers
 - prop-095 implemented August 2011
 - Requires counterpart RIR with compatible policy





IPv4 Transfers



Resource Quality Assurance

- Reachability testing
 - Applied to /8s received from IANA
 - E.g. 1/8
- Whois cleanup project
 - 155,618 unreferenced objects removed
 - 49,542 errors fixed
 - Campaign to update mnt-irt object attributes
- Outreach activities
 - APNIC meetings and NOGs
 - http://meetings.apnic.net/33/program/bof

Learning and Development

- New Area established 2011
 - Directed by Dr Philip Smith (you know him)
- Increased focus on IPv6
- eLearning (WebEx)
 - One-hour "live" training sessions
 - Delivered fortnightly to three time zones
- Training lab
 - For online, remote access during training
 - Equipped with IPv6, 4-byte AS Numbers
 - ISP-like topology with multiple operating regions
 - Hands-on environment with core, edge, and access networks





Training in 2011

- Face-to-Face "IRM" and other
 - 67 courses in 36 locations
 - 1,813 total participants
- eLearning
 - 76 courses
 - 786 total participants
- IPv6 courses
 - 27 locations
 - 1,147 total participants

APNIC Labs

- IPv6 Capability measurement
 - Google ad data collection (thanks to Google)
 - Code snippet enables website-specific data collection
 - 600,000+ measurements per day
 - Analysis by source economy, ASN, and more
- IPv4 address report
 - IPv4 free pool address exhaustion
- http://labs.apnic.net
- http://blabs.apnic.net

IPv6 Programme

- Regional events and activities
 - Pacific Telecommunications Council (PTC), Hawaii, January 2011
 - Philippines IPv6 Conference, Manila, January 2011
 - IPv6 Transition conference, APRICOT 2011, Hong Kong
 - Seminar for DNS community, ICANN 41, Singapore
 - China IPv6 Summit, Beijing, April 2011
 - ITU/APNIC IPv6 Workshop, Bangkok, July 2011
 - World IPv6 Day, 8 June 2011
 - IPv6 Transition Plenary, APNIC 32, Busan
 - Asia Pacific Top Level Domain (APTLD), Busan, September 2011
 - Australia IPv6 Summit, Melbourne, Octber 2011
 - China Mobile MIRACLE 2011, Beijing, November 2011
 - Singapore iDA IPv6 Executive Briefing, Singapore, November 2011
 - Taiwan IPv6 Summit, Taipei, November 2011
- APIPv6 Task Force
 - APNIC providing Secretariat services





IPv6 and Governments

- Work with regulators, policymakers, and government
 - IPv6 technical and policy issues
 - IPv6 deployment capacity building in dev economies
- Events
 - 11th APT Policy and Regulators Forum
 - APEC TEL 43 and 44
 - Policy and Regulations Forum for the Pacific
 - Pacific Telecommunications Council (PTC)
 - Pacific Islands ICT Ministerial Meeting
 - Hong Kong Office of the Government CIO
 - China Ministry of Industry and Information Technology (MIIT)
 - Singapore iDA





Internet Governance Forum

- IGF 7
 - 2011 in Nairobi, Kenya
 - Sponsored one remote hub University of the South Pacific, Fiji
 - Total of 18 participants
- Regional IGF events
 - Inaugural Pacific IGF (PacIGF), New Caledonia
 - Asia Pacific Regional IGF (APrIGF), Singapore
 - APrIGF 2012, Japan, July 2012
- Multi-stakeholder Advisory Group (MAG)
 - Paul Wilson serving from May 2012
 - with Paul Rendek (RIPE NCC) and Raul Echeberria (LACNIC)

Information Society Innovation Fund

- ISIF is now part of the Seed Alliance
 - Alliance for Internet development and digital innovation
 - Joint effort with LACNIC and AfriNIC
 - Ongoing support by IDRC (CAD \$1.3m)
- New round launching soon
- http://www.isif.asia



2012 Survey

- Focus groups
 - Held during April 2012
 - 17 face-to-face meetings in 13 economies
 - Content to be reflected in the final survey report
- Online survey form
 - APNIC Members, regional, and global stakeholders
 - Questions specific to stakeholder groups
 - Held during May 2012
- Results
 - Due in August 2012 (APNIC 34, Phnom Penh)
 - Feeding directly into planning for 2013

Coming up ...

- APNIC 34, Phnom Penh, Cambodia
 - 21-31 August 2012
 - New: Workshop week!



- APNIC 35, Singapore
 - 20 February 1 March 2013 (with APRICOT 2013)
- http://www.apnic.net/meetings

Thanks

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