

# PacNOG 10

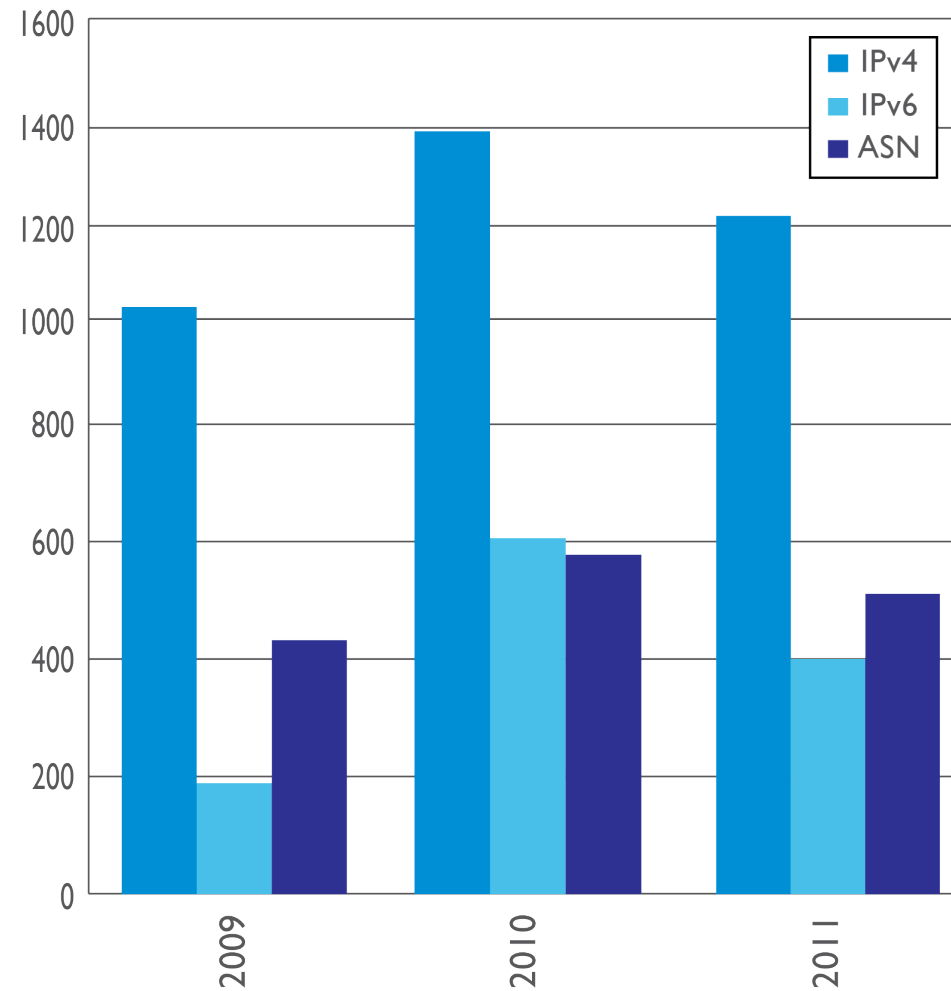
APNIC Update and much more...

Elly Tawhai  
Senior Internet Resource Analyst/Liaison  
Officer, Pacific, APNIC



**APNIC**

### IP Address & ASN Delegation count



(As of September 2011)

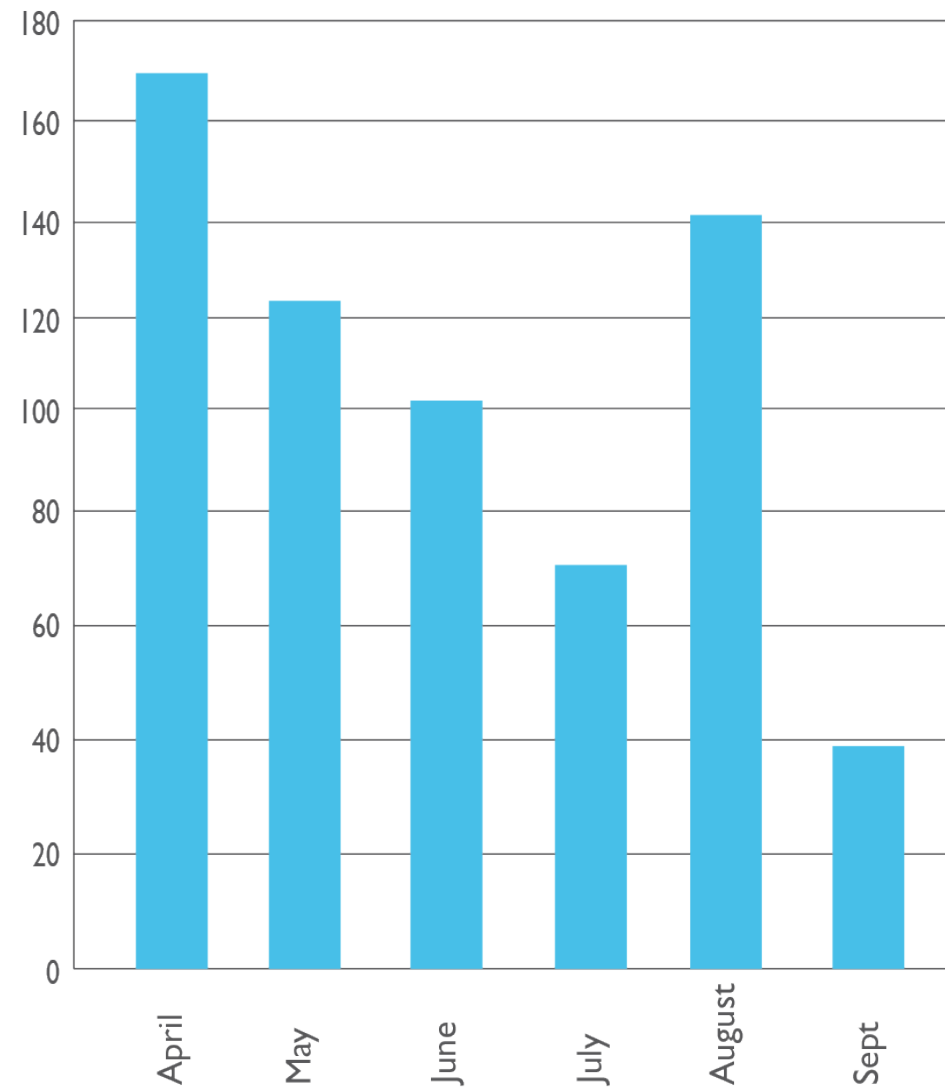


# IPv4 Exhaustion

- Reached “Final /8” on 15 April 2011
  - 103.0.0.0/8
- New allocation policy activated
  - Limited to a single maximum delegation of /22
  - Minimum delegation size is a /24
- From 15 April to 6 November 2011, made 774 delegations to 30 economies



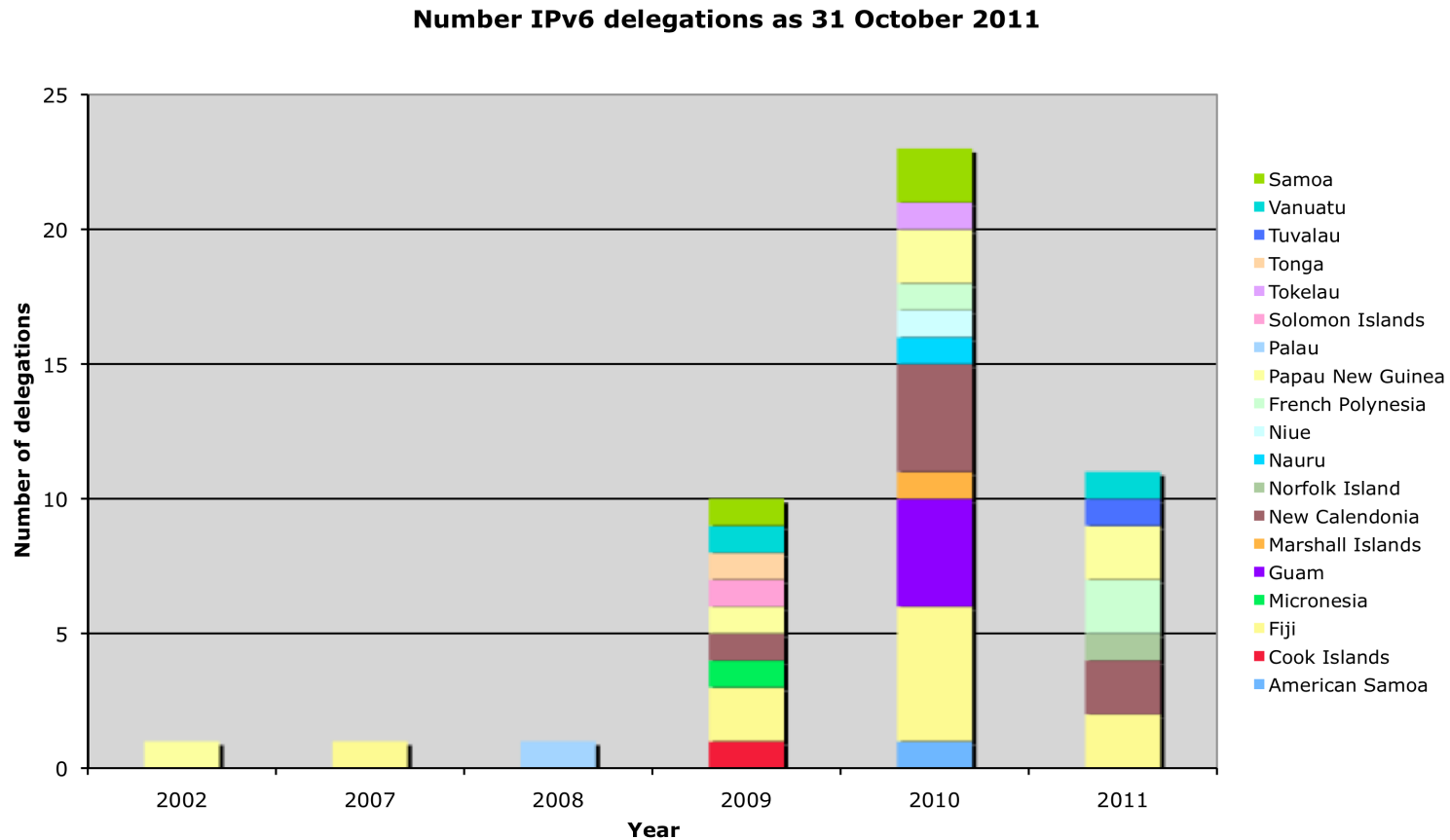
**Last /8 Delegations**



(As of September 2011)



# IPv6 within the Pacific



# Policies Implemented 2011

- prop-088: Distribution of IPv4 Addresses Once the Final /8 Period Starts
- prop-093: Reducing the Minimum Delegation Size for the Final /8 Policy
- prop-094: Removing Renumbering Requirement from Final /8 Policy



# Policies at APNIC 32

- Consensus...
  - prop-096: Maintaining Demonstrated Needs Requirement in Transfer Policy after the Final /8 Phase
  - Endorsed by APNIC EC, 3 Nov 2011
- No consensus – returned to mailing list
  - prop-100: National IP Address Plan – Allocation of Country-wide IP Address Blocks
  - prop-099: IPv6 Reservation for Large Networks
  - prop-098: Optimizing IPv6 Allocation Strategies (simplified)



# Learning and Development

- New Area under Philip Smith
- Training Lab
  - infrastructure upgraded
  - Workshops on IPv6, four-byte ASNs
  - More hands-on sessions
- Collaborations
  - 6Deploy, intERlab, NIRs (ID, TW, CN)
- APNIC Conference Hubs
  - Jakarta and Port Moresby (Feb 2011)
  - Phnom Penh (Aug 2011)





# IPv6 Program

- Major IPv6 events in the region
  - IPv6 Transition Day at APRICOT 2011 and APNIC 32
  - IPv6 Deployment workshop at ICANN 41
- Supporting regional IPv6 activities
  - Innaugual SGNOG
  - China Global IPv6 Summit 2011
  - Pacific IGF (New Caledonia)
  - Asia Pacific IGF (Singapore)
  - Secretariat for APIIPv6TF



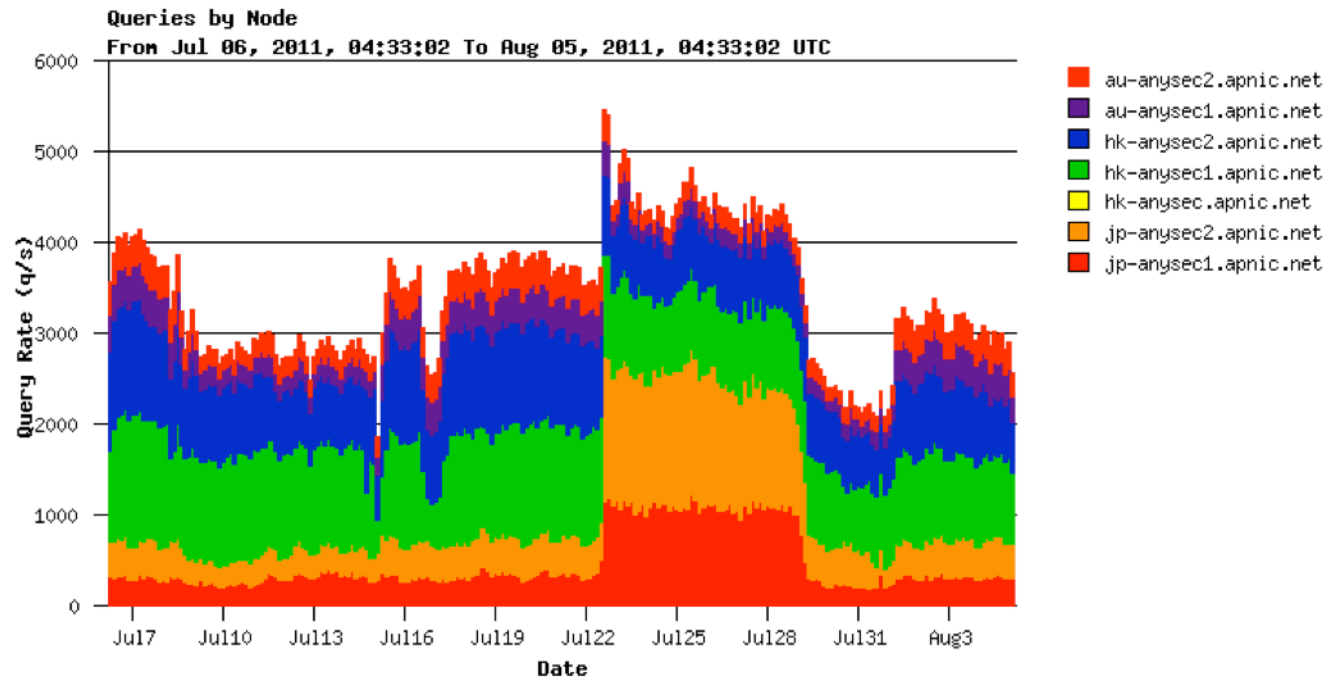
# IPv6 Program

- Activities with inter-governmental organizations
  - Asia Pacific Economic Cooperation (APEC TEL)
    - Continuous engagement with IPv6 information
  - Asia Pacific Telecommunity (APT)
    - APT Policy and Regulatory Forum (PRF) and Pacific PRF
  - Secretariat of Pacific Community (SPC)
    - MoU on IPv6 deployment in the Pacific
  - Pacific ICT Ministers Meeting
    - APNIC's recommendations in the ministerial communiqué
  - ITU Asia Pacific collaboration
    - IPv6 capacity-building workshop



# Technical Area

- APNIC now serving e.in-addr-servers.arpa and e.ip6-servers.arpa. labels



# Agile



# APNIC Labs

- Supporting R&D with remote measurement techniques
  - Software expertise provided for client-side IPv6 capability measurements
- Google analytics measurements for IPv6 client capability targeted at website owners
- <http://labs.apnic.net>



# DNSSEC

- 3 May 2011, DS records submitted to IANA
  - Allows validation to occur from root down to APNIC's reverse zones
- Users can update reverse DNS DS record through MyAPNIC
  - Single zone via whois domain objects
  - Multiple zones via zone file upload



# Public Affairs

- IGF related events
  - Second APriIGF in Singapore
  - First PacIGF in New Caledonia
  - APIL in China
- NRO
  - Public affairs coordination
  - Renewal of IANA contract (comments FNOI)
- OECD
  - High-level meeting on Internet Economy



# New APNIC Identity

- New image for a new era
- :: representing our new IPv6 world
- () representing our collaborative community
- Changing icon represents our dynamic and diverse community

# APNIC





# Coming up...



- APNIC 34
  - Phnom Penh, Cambodia, August 2012
- APNIC 35:
  - Singapore, Singapore, February 2013



# Thanks

elly@apnic.net

