

# APNIC Update

TWNIC OPM

1 JUL 2010

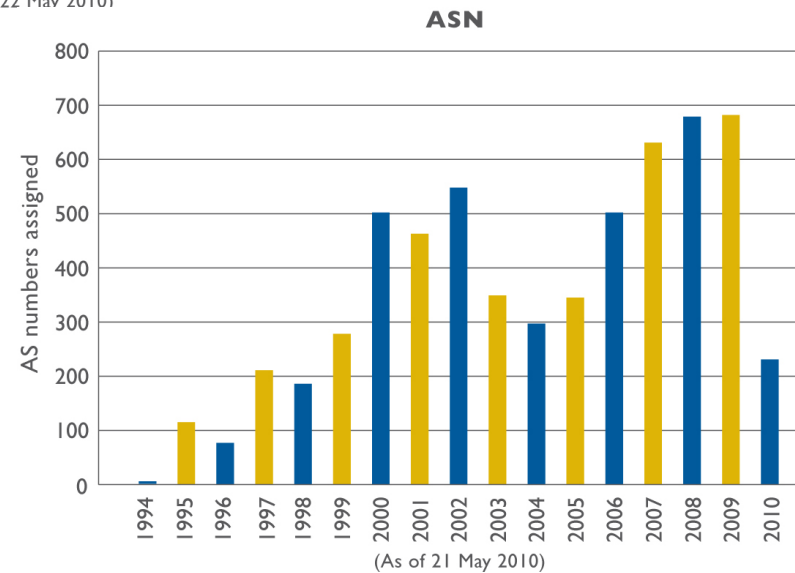
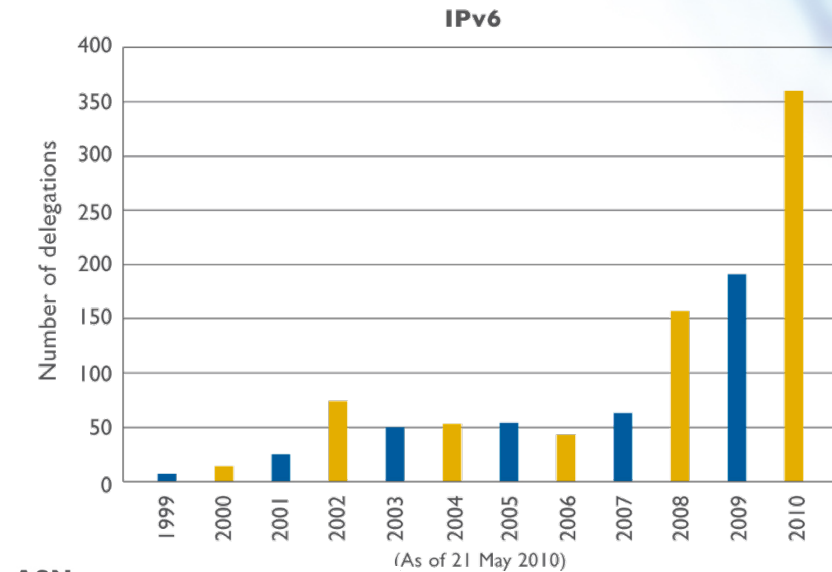
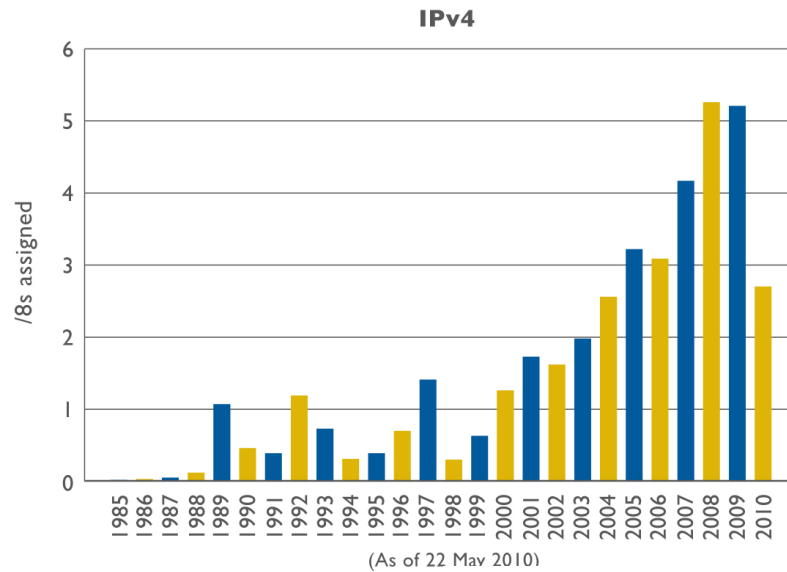
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# Overview

- Services Update
- APNIC 29 Policy Outcomes
- APNIC Activities
  - Technical Developments
  - IPv6 Program
  - Training
- Other News
- Upcoming meetings

# Resource Delegations





# APNIC Service Levels

- **Membership** total: 2,264
- 2009 highest number of new Members: 416
- March 2010 was the largest month on record for **new membership** applications/approvals
  - 54 new accounts
- APNIC now averages 1,400+ per month **Helpdesk** enquiries, a growth of over 55% in the last year
- Total MyAPNIC users: 2400

# Member Services

- CA2
  - Automated certificate renewal (MyAPNIC)
  - Manage contacts without a digital certificate
- Resource Quality Assurance Initiative
  - APNIC tests all IANA allocations prior to distribution
  - 27.0.0.0/8 and 1.0.0.0/8 tested
  - 1.0.0.0/8 public report available
  - Testing preparations for to 14.0.0.0/8 and 223.0.0.0/8

# APNIC 29 Policy Outcomes

Proposal	Title	Overview
<b>Prop-079</b> Reached Consensus	Abuse contact information	This is a proposal to introduce a mandatory abuse contact field for objects in the APNIC Whois Database to provide a more efficient way for abuse reports to reach the correct network contact.
<b>Prop-080</b> Draft available	Removal of IPv4 prefix exchange policy	This is a proposal to remove the policy that currently permits resource holders to return three or more noncontiguous IPv4 address blocks and have the prefixes replaced with a single, larger, contiguous block.
<b>Prop-082</b> Draft available	Removing aggregation criteria for IPv6 initial allocations	This is a proposal to remove the aggregation requirement from the IPv6 initial allocation policy.

<http://www.apnic.net/policy/proposals>

# Last Policy and Fee Changes Implementations

Proposal	Title	Overview
<b>Prop-050</b>	IPv4 address transfers	This policy removes APNIC policy restrictions on the transfer of registration of IPv4 address allocations and IPv4 portable address assignments between current APNIC account holders.
<b>Prop-073</b>	Simplifying allocation/assignment of IPv6 to APNIC Members with existing IPv4 addresses	IPv6 Kickstart: Available from the public and MyAPNIC websites as a simple, one-click application for current IPv4 address holders to obtain an appropriately sized block of IPv6 addresses.

<http://www.apnic.net/policy/proposals>

- New Fee Schedule, implemented January 1 2010
- 50% discount for Least Developed Countries

# Technical Developments

- DNSSEC
  - Phase 3
  - enable DNSSEC protection by registering Delegation Signer (DS) resource records to their parent zone data that will be stored in APNIC's name servers.
- Resource Public Key Infrastructure (RPKI)
  - Web services interface with external systems
  - Secure channel for updating Member reverse delegations
  - Will be used to link Member DNSSEC signed zones to APNIC DNSSEC signed zones



# IPv6 Program Update

- 10% Media Campaign (with IANA)
  - About 6% IPv4 remaining
- Kickstart IPv6
  - Implemented 10 Feb 2010
  - Total allocations since Feb 2010: 275
- IPv6 events:
  - Philippines CIOF IPv6 Event; 16 April
  - APEC TEL41, Taipei; 8 May
  - Indonesia IPv6 Summit, Bali; 8-9 June
  - CommunicAsia 2010; 15-18 June

# Training and Education

- Face-to-face training
  - Fully equipped Training lab (IPv6 supported)
- Online Interactive eLearning Web classes
  - Two training courses offered every month
- Online self-paced modules
  - Supplements other modes
- Training through collaboration
  - 6Deploy, Team Cymru, IntERLab

## Other APNIC News

- Community Consultation, APNIC 29
  - Panellists' perspectives: ITU, Developing economies, ICANN
  - Extended comment session
  - Formal submission to ITU IPv6 Group
- Upcoming events
  - PITA, Solomon Islands; 16 April
  - WTDC, India; 24 May – 7 June
  - Asia Pacific Regional IGF, Hong Kong; 14 June

# Next APNIC Meeting



- APNIC 30 Gold Coast, Australia
  - Participate remotely via webcast, audio streaming, live transcripts.

**<http://meeting.apnic.net/30>**

# More APNIC Meetings..

- APNIC 31 and APRICOT 2011
  - Hong Kong
  - 21 to 25 February
  - Joint meeting with APAN
- APNIC 33 and APRICOT 2012
  - 22 February – 3 March
  - Delhi, India

# Addressing Prefix Reachability Issues

# Overview

- Background
- The problem
- APNIC Resource Quality Assurance
  - Scope
  - Challenges
  - Strategy

# Why IP addresses are blocked?

- IP address can get filtered for various reasons:
  - Outdated bogon lists
  - Past abusive behaviour
  - Blacklist from spamming and DOS attacks
  - Security/access policies



# IP Filtering methods

- Route filtering
- Application filtering, esp. Mail
- Firewall filtering

# The Problem

- Legitimate internet traffic fails to reach the destination due to outdated filters and black/bogon lists
- RIR seen as responsible for allocating 'polluted' blocks
- Situation worsens as free pool of IPv4 addresses reaches exhaustion
  - New address blocks attract un-wanted levels of traffic from private-use domains, mis-configured equipment, and scanning activity.
  - Prefixes get recycled

# Resource Quality Assurance

APNIC acts to minimize any problems in routability through communication, training, and testing

## **Testing for new /8 blocks**

- NOC mailing lists notification
- Reachability test conducted in conjunction with RIPE NCC
- APNIC conducts further testing, to quantify the extent to which networks attract “pollution” or “unwanted” traffic

# Resource Quality Assurance

- **Community awareness campaign**
  - Build relationships with reputable organizations that maintain bogon/black list
  - Education through publications and APNIC training materials
  - Keep the Whois Database accurate
    - Actively remind resource holders to update their data
- **[www.apnic.net/rqa](http://www.apnic.net/rqa)**

# What you can do?

- **Manage bogon filtering responsibly**
  - To ensure that addresses are not mistakenly filtered through routers, it is important to keep router ACLs updated
- **Keep informed about bogon filters and IANA allocations.** Visit regularly:
  - [Team Cymru](#)
  - [IANA](#)



**We need your help, so let's  
work together**

# Thank You

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