

APNIC Update

15th TWNIC OPM

2 December 2010

Taipei, Taiwan

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APNIC Policy Updates

Proposal	Title	Overview
Prop-079 Implemented 8 Nov 2010	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.
Prop-080 Implemented 5 July 2010	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.
Prop-082 Implemented 5 July 2010	Removing aggregation criteria for IPv6 initial allocations	This is a proposal to remove the aggregation requirement from the IPv6 initial allocation policy.

No policy proposals reached consensus during APNIC 30

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

IRT Object: Dedicated Abuse Contact

```
irt:                IRT-ISPNET
address:            Brisbane, Australia
phone-no:          +61-7-38583000
fax-no:            +61-7-38583100
email:             tech@ispnet.net
abuse-mailbox:     abuse@ispnet.net
admin-c:           IA01-AP
tech-c:            IT03-AP
auth:              X509-5
mnt-by:            MAINT-ISPNET-AP
changed:           tech@ispnet.net 20101108
source:            APNIC
```

New Policy Proposal

prop-088-v001

- Distribution of IPv4 addresses once the final /8 period starts
- Handle IPv4 space received by APNIC after the final /8 policy is implemented
 - Part of final /8 pool
 - Redistribute resources according to final /8 policy

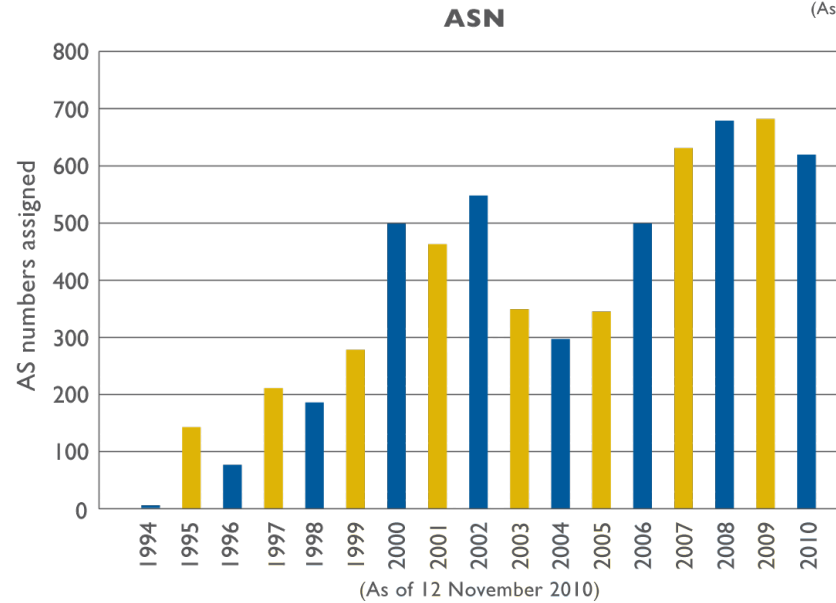
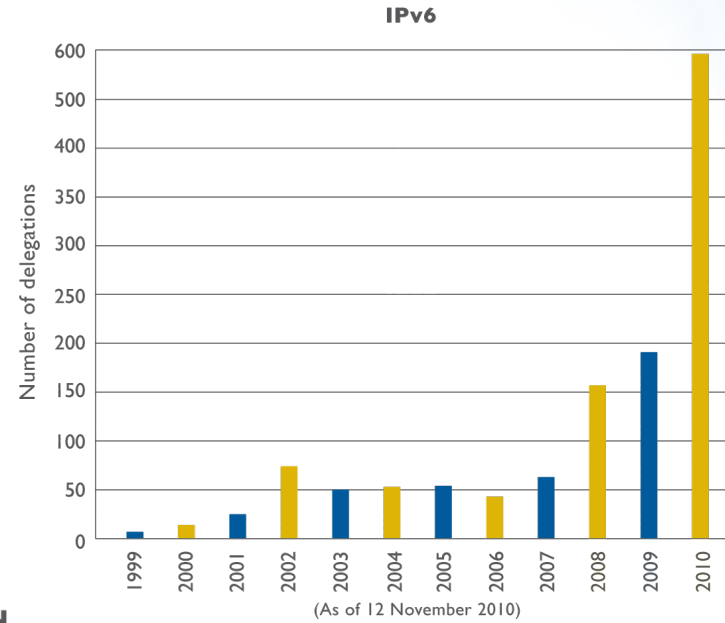
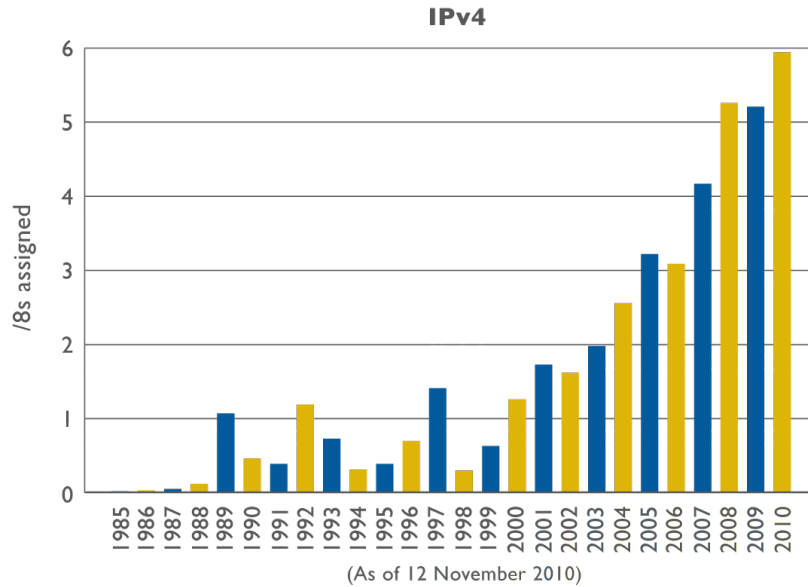
Resource Services

- IPv4 requests still strong (5.94 x /8)
 - Mobile, wireless, ADSL networks
 - Growth economies: CN, KR, JP, IN, VN
- Very high IPv6 take up
 - 584 delegations in 2010 so far (188 in 2009)
- Resource Quality Assurance
 - APNIC tests all IANA allocations prior to distribution
 - Outreach to network operators to remove outdated filters
 - 36.0.0.0/8 and 42.0.0.0/8 being tested

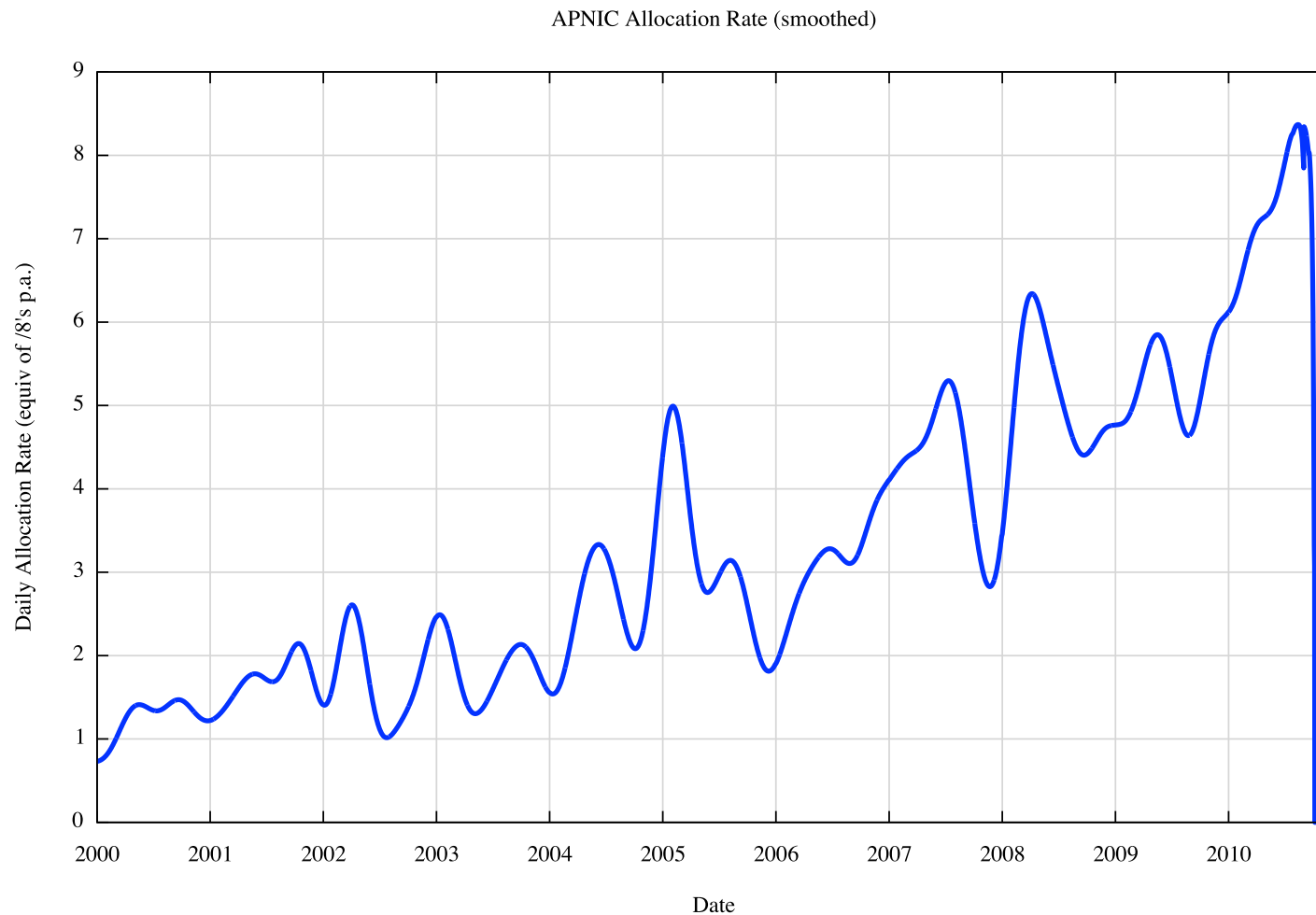
Resource Delegations in TW

- 2010 delegation count
 - IPv4: 26
 - IPv6: 7
- 2010 size count
 - IPv4: 0.2 /8
 - IPv6: 7 /32
- Total distribution up to date
 - IPv4: 1.82 /8
 - IPv6: 2319 /32

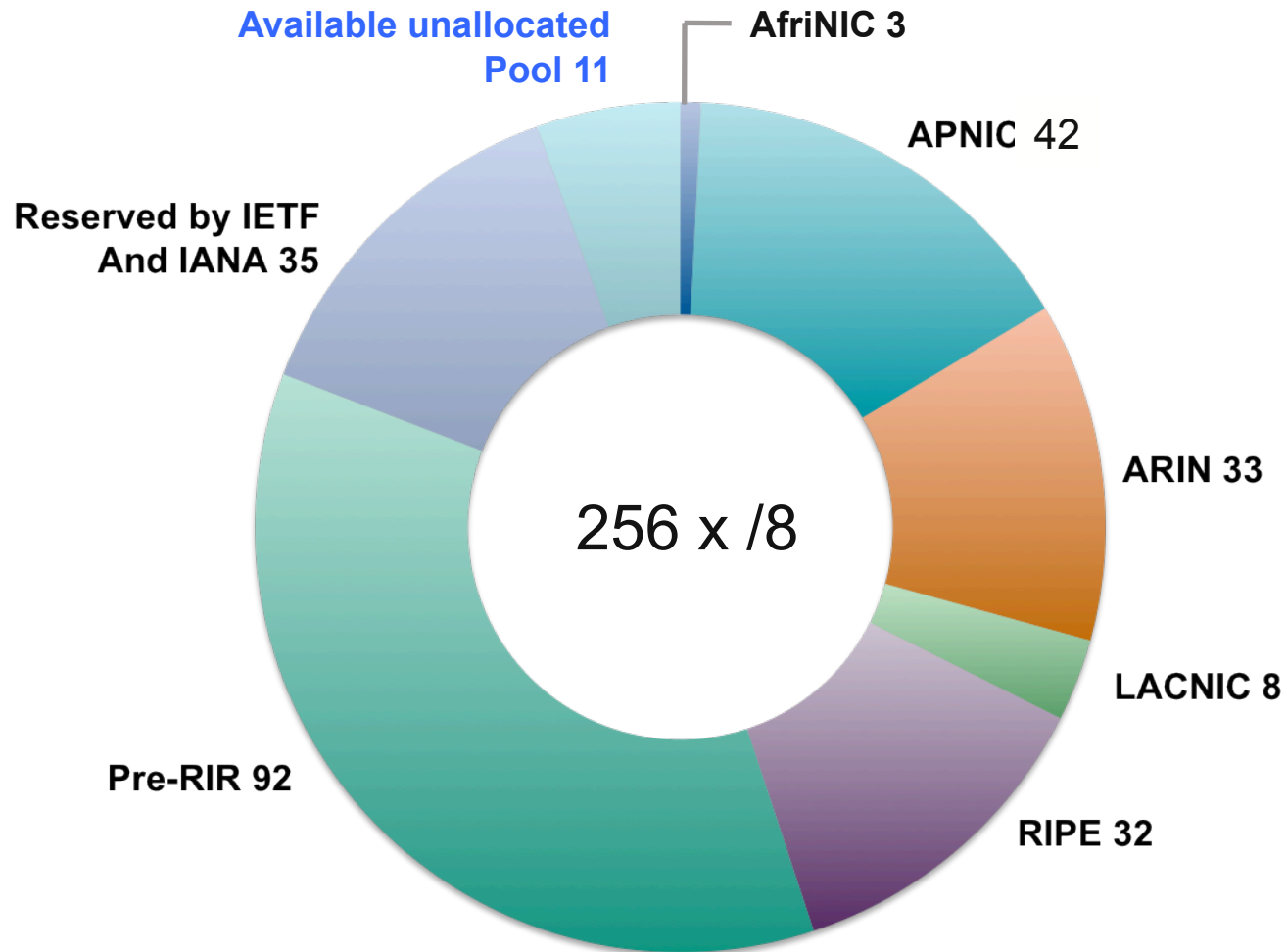
Resource Delegations



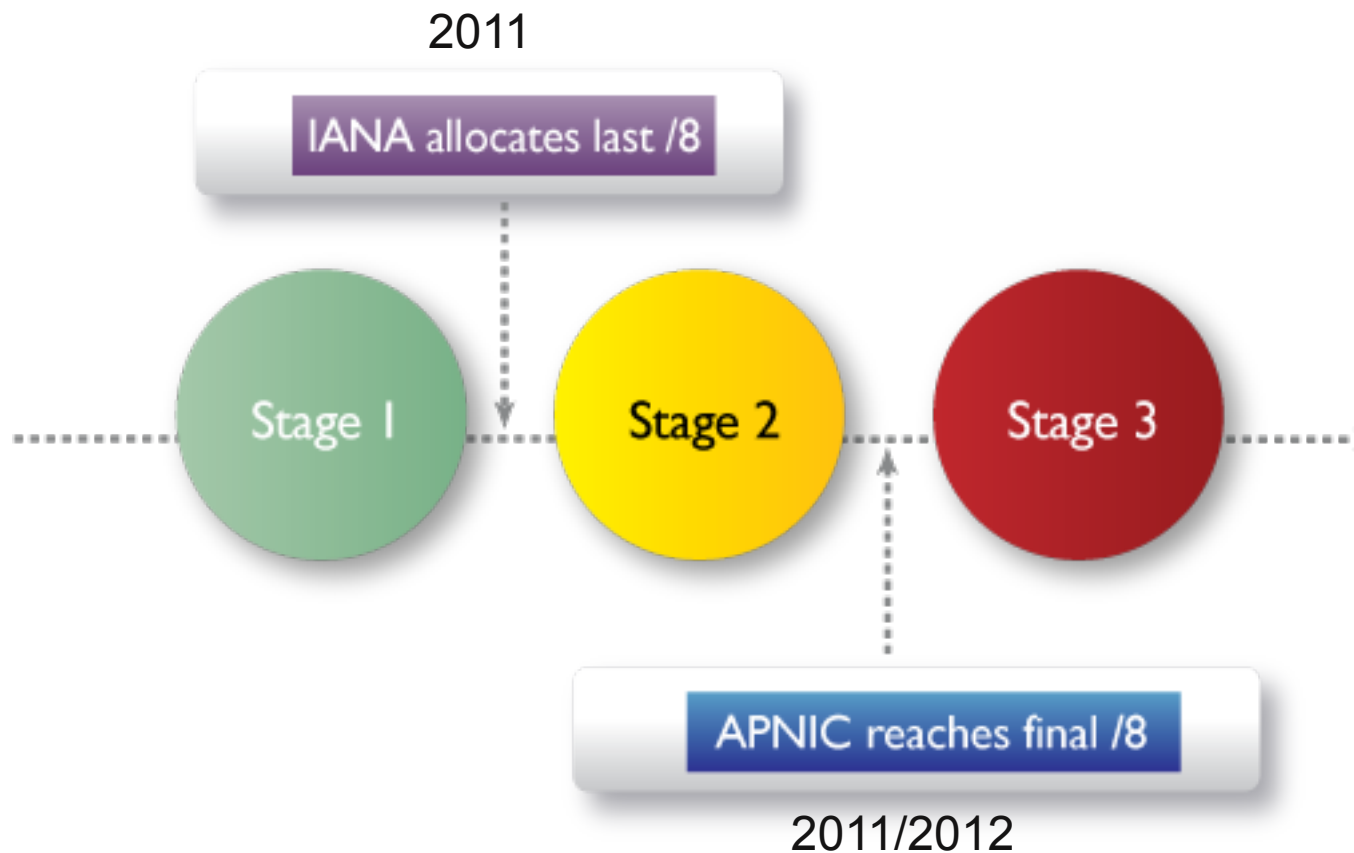
A Closer Look at APNIC's IPv4 Allocations



IPv4 Address Global Distribution (/8)



Final Stages of IPv4 Distribution



How Does APNIC Distribute Last /8?

- One /16 is reserved for future use
- Each APNIC account holder will be eligible to request and receive a single allocation (/22)

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
- Collaborative testing conducted by APNIC R&D in conjunction with different organizations
- APNIC conducts further testing, to quantify the extent to which networks attract “pollution” or “unwanted” traffic

Resource Quality Assurance

Community awareness

- Promote responsible administrative practices through APNIC publications and training materials
- Inform organizations that maintain bogon/black lists about the changes for recently allocated addresses so they update their DB
- Keep the Whois Database accurate
 - Actively remind resource holders to update their data

Resource Quality Assurance

Is a collaborative effort, you can:

- Follow responsible network administration practices to protect users from abuse and security attacks, while allowing legitimate traffic to flow and reach its intended destination
- Talk to your customers, upstreams and peers
- Keep informed about IANA allocations
- Consider whether you should stop any form of bogon filtering

Training and Education

eLearning Interactive

- Successfully offering two sub-regional training courses per month:
 - 20 eLearning web classes
 - 271 attendees



Flexible
Free
Accessible



Research and Development

- RPKI (joint with other RIRs/NRO)
- DNS service dynamics
- Expanded network measurement/
monitoring
 - Test Traffic Measurement (TTM)
 - ‘Day In the Life of the Internet’ (DITL)
 - 3.4Tb of data collected over 3 days in 2010
 - IPv6 deployment measurement activities

Technical Developments

- New co-location facility in ‘triangle architecture’ for reliability and disaster recovery plan
- DNSSEC implementation
 - Signing of all APNIC zones completed April 2010
 - Cooperation with other RIRs on ERX ranges

IPv6 Program Update

- APNIC is the new Secretariat for the Asia Pacific IPv6 Task Force (APIIPv6TF)
- Conducted two IPv6 workshops with APEC TEL WG 2010:
 - APEC TEL 41: Taipei, Taiwan
 - Transforming the Internet
 - APEC TEL 42: Bandar Seri Begawan, Brunei Darussalam
 - Securing sustainable growth of the Internet

APEC TELMIN8 Ministerial Statement

- APNIC participated APEC TELMIN8 in Okinawa, Japan 30 – 31 Oct 2010
 - Heads of the Ministries of information and communications
 - APEC TELMIN8 reiterates importance of IPv6 deployment in the Asia Pacific
 - *“We recognize that the free pool of IPv4 addresses is expected to be exhausted around 2012, and **the transition to IPv6** will facilitate the achievement of **universal broadband access** in the APEC region. We support the **IPv6 Guidelines developed by TEL.**”*



Internet Governance

- APNIC was one of the main organizers and sponsors of the first Asia Pacific IGF in Hong Kong.
- Co-hosted remote hubs in the Asia Pacific region in support of the IGF in Lithuania
 - Dhaka, Bangladesh
 - Manila, Philippines
 - Hong Kong SAR, China
 - Jakarta, Indonesia

New Building

- Lower operating costs
- Size and location suits APNIC's future needs



Next APNIC Meeting APNIC 31

APNIC 31

21 - 25 February 2011
Hong Kong SAR, China



Participation is open to anyone in the
Internet community.
Join us!

More APNIC Meetings..

APNIC 32

- 29 August – 2 September
- Busan, South Korea

APNIC 33 and APRICOT 2012

- 22 February – 3 March
- Delhi, India

Thank You

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