

APNIC update and much more

SANOG '15

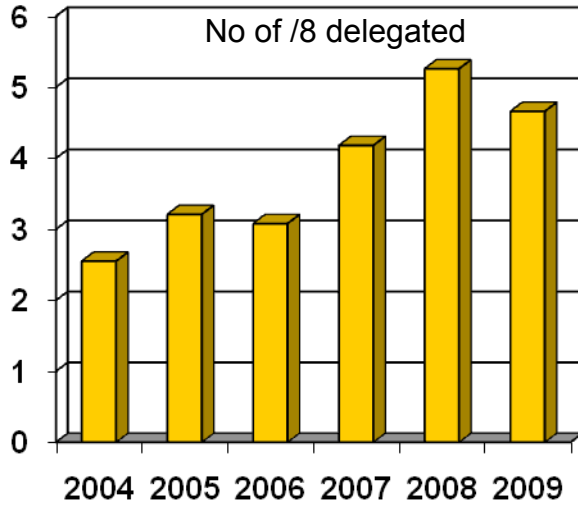
27 January 2010, Dhaka

Nurul Islam Roman
APNIC

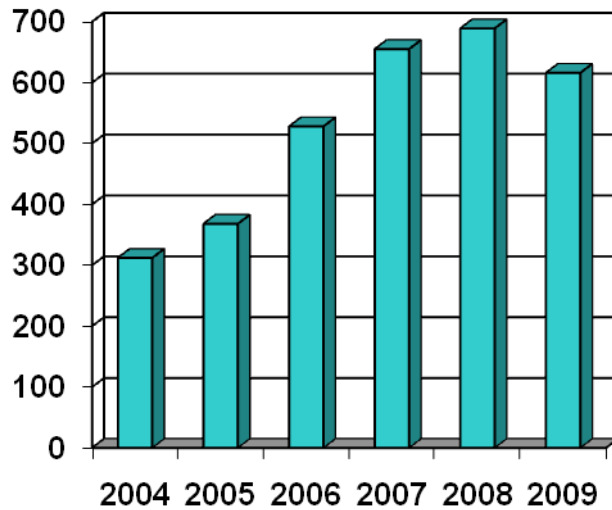
Overview

- Services status
- Policy developments
- Priority activities
- Next meetings

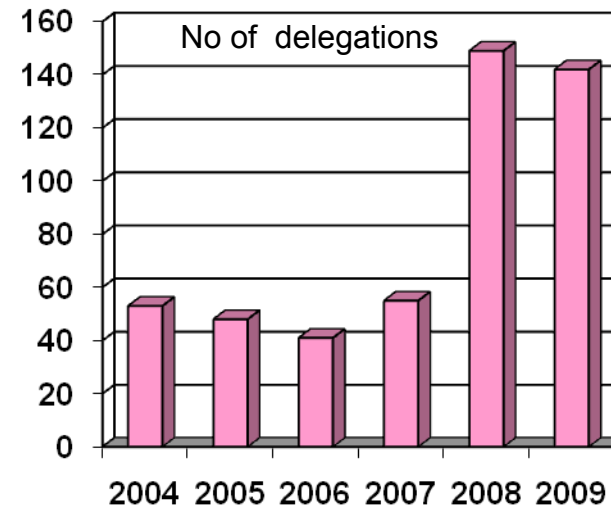
Resource Delegations (as of 26 Nov 09)



■ IPv4



■ ASN



■ IPv6

APNIC Service Levels

- **Membership** now over 2,000 members
- July 2009 was the largest month on record for **new membership** applications/approvals
- APNIC now averages 1,400+ per month **Helpdesk** enquiries, a growth of over 55% in the last year
- The number **of allocations of address space** has grown slightly from an average of 100 per month to 105 in 2009.



Recent policy changes

Proposal	Title	Overview
Prop-050 Implement on 10 February	IPv4 address transfers	This policy proposes removing APNIC policy restrictions on the transfer of registration of IPv4 address allocations and IPv4 portable address assignments between current APNIC account holders.
Prop-073 Implement on 10 February	Simplifying allocation/ assignment of IPv6 to APNIC members with existing IPv4 addresses	This proposal directs the APNIC Secretariat to automatically assess and provide IPv6 resources to APNIC members that currently hold IPv4 resources in the APNIC registry but who do not hold IPv6 resources in the APNIC registry.
Prop-074 Pending completion of global policy process	Internet Assigned Numbers Authority (IANA) Policy for Allocation of ASN Blocks (ASNs) to Regional Internet Registries	According to the current Global Policy for Allocation of ASN Blocks to Regional Internet Registries, IANA will cease to make any distinction between 16-bit and 32-bit only ASN blocks by 31 December 2009, when making allocations to RIRs. This proposal is to extend this date by one year, to 31 December 2010.
Prop-075 Implement on 10 February	Ensuring efficient use of historical AS numbers	This is a policy proposal to recover unused historical AS numbers for eventual reassignment to other APNIC account holders.

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



Current discussions – need input

Proposal	Title	Overview
Prop-078	Requiring IPv6 deployment needs or transition plan in final /8 allocations or assignments	Seeks to supplement the final /8 policy, by requiring the applicant to demonstrate immediate IPv6 deployment needs, which ensures use of final /8 for IPv6 transition.
Prop-??	Abuse-c field for APNIC Whois Database (Tobias Knecht)	Adding abuse-c field in APNIC whois database to contact for any network abuse issue.
Prop-??	Removal of prefix exchange policy (Guangliang Pan)	Exchange of a /22 aggregated prefix for 3X/24 un-aggregated will be removed

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

APNIC Surveys

- Four surveys previously...
 - Members and other stakeholders
 - Conducted independently (KPMG)
 - Guaranteed confidentiality
 - Face-face, written and online response
- Fifth survey – 2009
 - Launched December 2008
 - Published February 2009

APNIC Key Activities

Top 10 Areas for Resource Allocation

1. Research and development activities (for example: network monitoring and measuring, routability testing)
2. Support network engineering education in the Asia Pacific region
3. Support of IPv6 deployment
4. Expand training activities in scope, geographical coverage and online options
5. Increase the support of the community's efforts to adopt IPv6
6. Streamline resource requests and allocation processes
7. Further development of resource certification to support better routing security
8. Expand network monitoring, reporting
9. Develop web services for automated data exchange with external systems
10. Deploy more DNS root servers in the Asia Pacific region

2009 Member Survey: www.apnic.net/ec

Research and Development

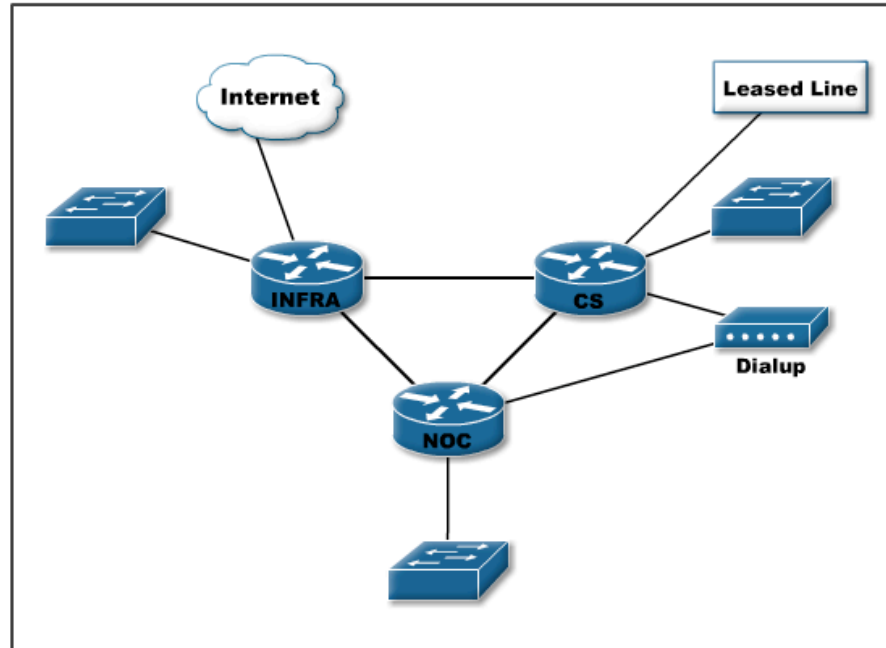
- R&D activities
 - Work with other RIRs on RPKI
 - DNSSEC implementation
 - Anycast deployment
- Expand network monitoring, reporting
 - Test Traffic Measurement (TTM)
 - Sponsorship of 12 Asia Pacific Nodes
 - ‘Day In the Life of the Internet’ (DITL)
 - Provided 478+ GB of DNS packet flow data



Education

- Support network engineering education in the Asia Pacific region
 - Ongoing training activities
 - Developing institutional links
 - Training lab expansion
 - More security training (with Team Cymru)
- Expand training activities in scope, geographical coverage and online options
 - E-learning and self-paced learning

Self Paced e-learning



Network Plan: Initial

In the following slides, we will examine the construction of the network plans for the network at its initial stage, at 6 months and at 12 months of proposed operation.

The illustration on the left is a good representation of the structure of a typical ISP operation in its initial phase.

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APNIC Training, 2009





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IPv6

- Support IPv6 Deployment
- Increase the support of the community's efforts to adopt IPv6
 - Coordinating and promoting IPv6 activities across the whole of APNIC region
 - ICONS IPv6 Wiki
 - IPv6 messages, materials, outreach and information

Services

- Streamlining request and allocation processes
 - New MyAPNIC features
 - Improved, integrated membership sign-up & resource request form
- Automated data exchange
 - 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

Home
Resources
Administration
Training
Tools

IPv4
IPv6
ASN
Whois updates
Maintainers
Correspondence

Home / Resource Management

Internet number resource request

Resource type

Resources required

* fields are required

Select the type of IPv6 resources you * require:

- IP allocation for service providers** - for own network infrastructure and further delegations to customer networks
- IP assignment for own network use**
 - Multihoming network (connected to multiple upstreams) ?
 - Internet exchange point (IX/IXP) ?
 - Critical infrastructure ?

Save

Other

- Further development of resource certification to support routing security
 - Refining and expanding Resource Certification (RPKI) services for members
 - Developing open, interoperable standards on resource certification and routing in the IETF
- More DNS root servers in the AP region
 - Deployments in Taiwan, Mongolia
 - Deployment of TTM at root server locations

Listening to the stakeholders

- APNIC is always looking for new ways to get feedback from the community. The main 'listening posts' are:
 - Stakeholder surveys
 - Helpdesk
 - Liaison & training team
 - APNIC meetings



Next APNIC meeting



- APNIC 29 in conjunction with APRICOT 2010
 - Kuala Lumpur, 23 February – 5 March 2010
 - Participate remotely via webcast, audio streaming, live transcripts.
 - Participate, Participate, Participate!

<http://www.apricot2010.net>

More APNIC meetings..

- APNIC 30
 - August 2010
 - Bangkok, Thailand
- APNIC 31 and APRICOT 2011
 - Hong Kong
 - 21 - 25 February 2011
 - Joint meeting with APAN
- All invited !!!

Thank You!

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