Asia Pacific Network Information Centre

APNIC

APNIC Activity Highlights

PacNOG 7

June 2010

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Overview

- What is APNIC?
- Services Update
- APNIC 29 Policy Outcomes
- APNIC Activities
  - R&D
  - Technical Developments
  - IPv6 Program
  - Training
- Other News
- Upcoming meetings

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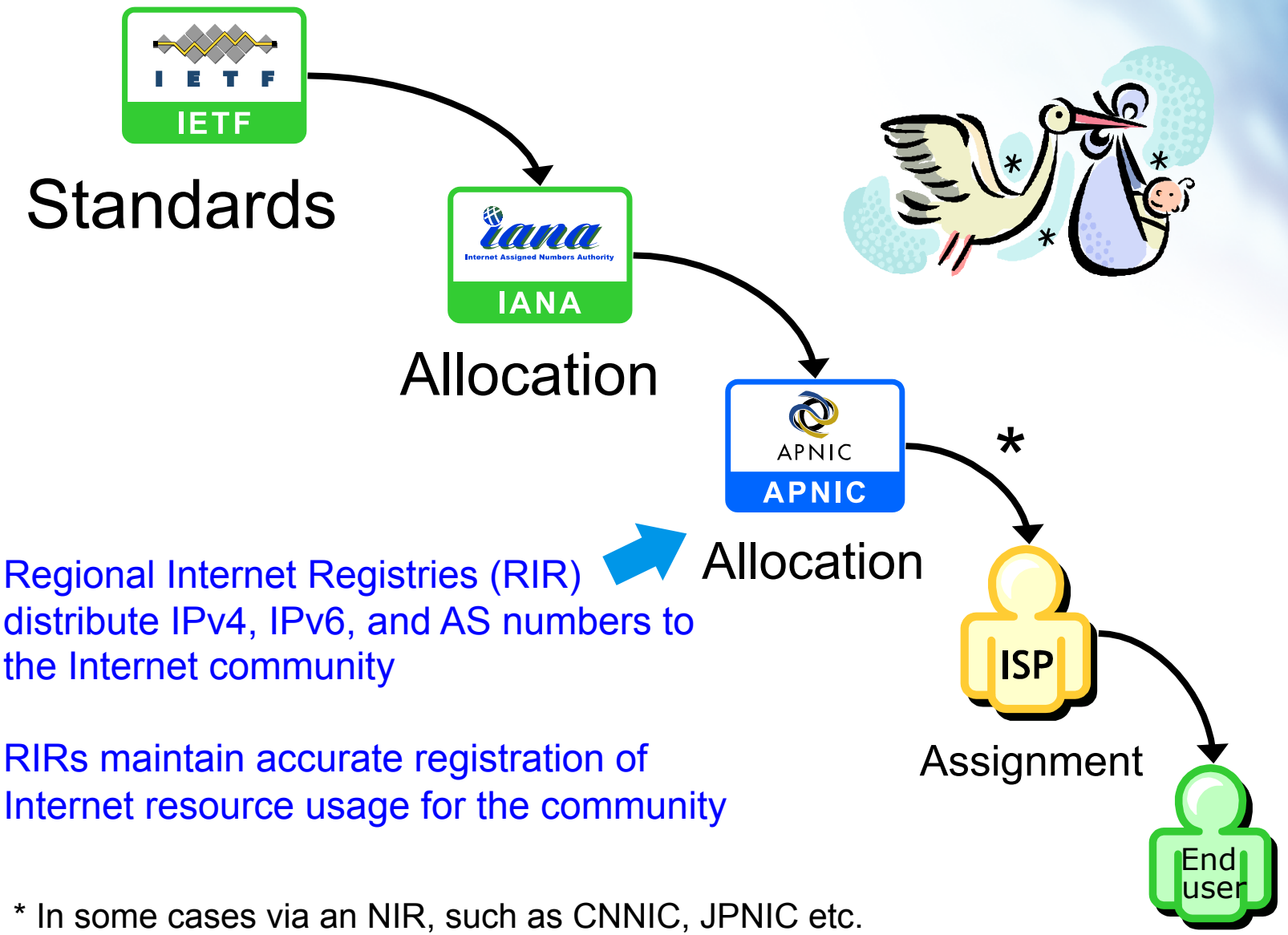
Where do IP addresses come from?



Regional Internet Registries (RIR) distribute IPv4, IPv6, and AS numbers to the Internet community

RIRs maintain accurate registration of Internet resource usage for the community

* In some cases via an NIR, such as CNNIC, JPNIC etc.

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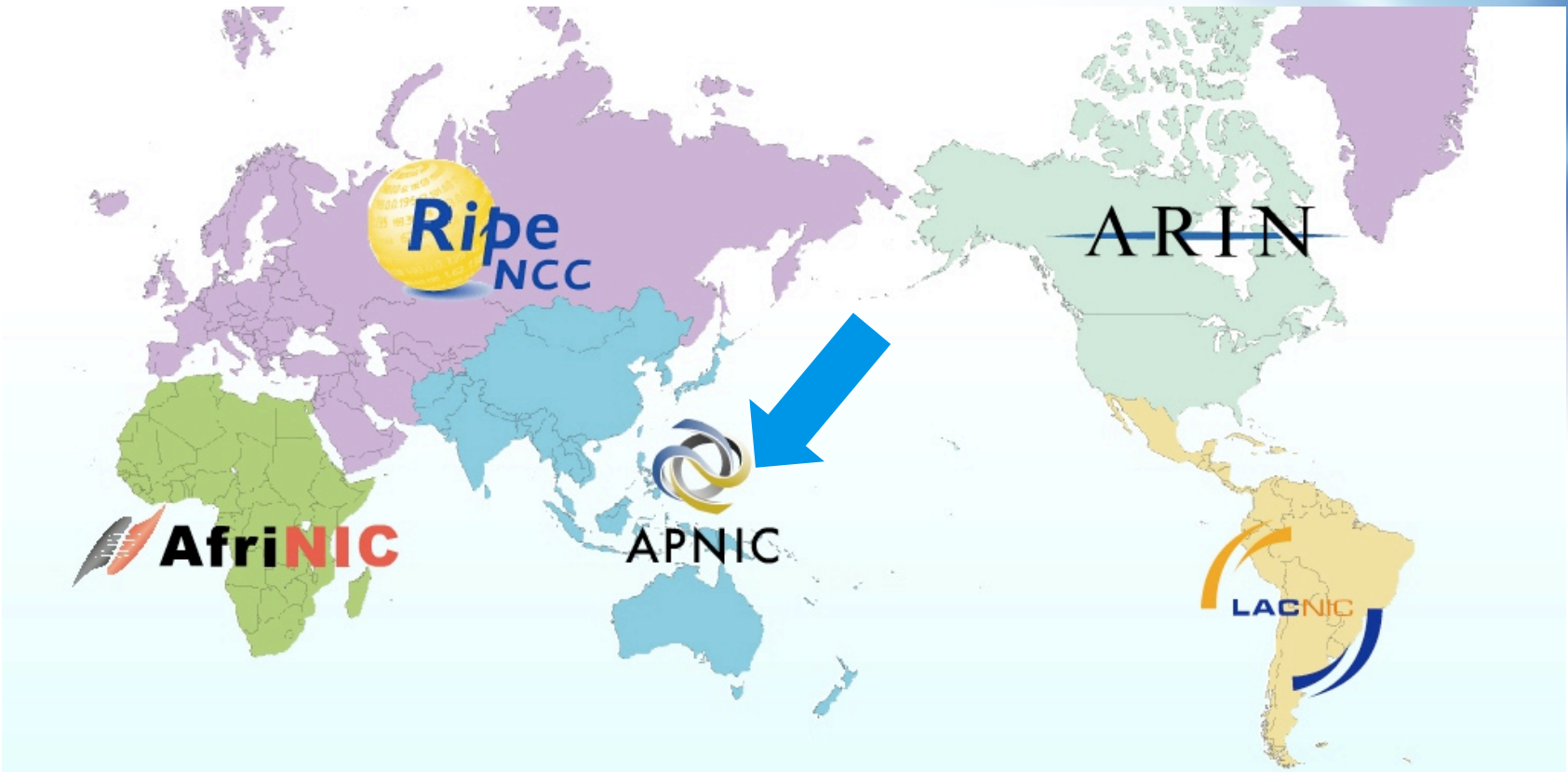
Regional Internet Registries



The Internet community established the RIRs to provide fair and consistent resource distribution and accurate resource registration throughout the world.

What does APNIC do?

Resource service

- IPv4, IPv6, ASNs
- Reverse DNS delegation
- Resource registration
    - Authoritative registration server
        - whois
        - IRR

Policy development

- Facilitating the policy development process
- Implementing policy changes

Information dissemination

- APNIC meetings
- Web and ftp site
- Publications, mailing lists
- Outreach seminars

http://www.apnic.net/community/lists/

Training

- Face to Face
- Via e-learning

- Subsidised for members

Schedule:
http://www.apnic.net/training

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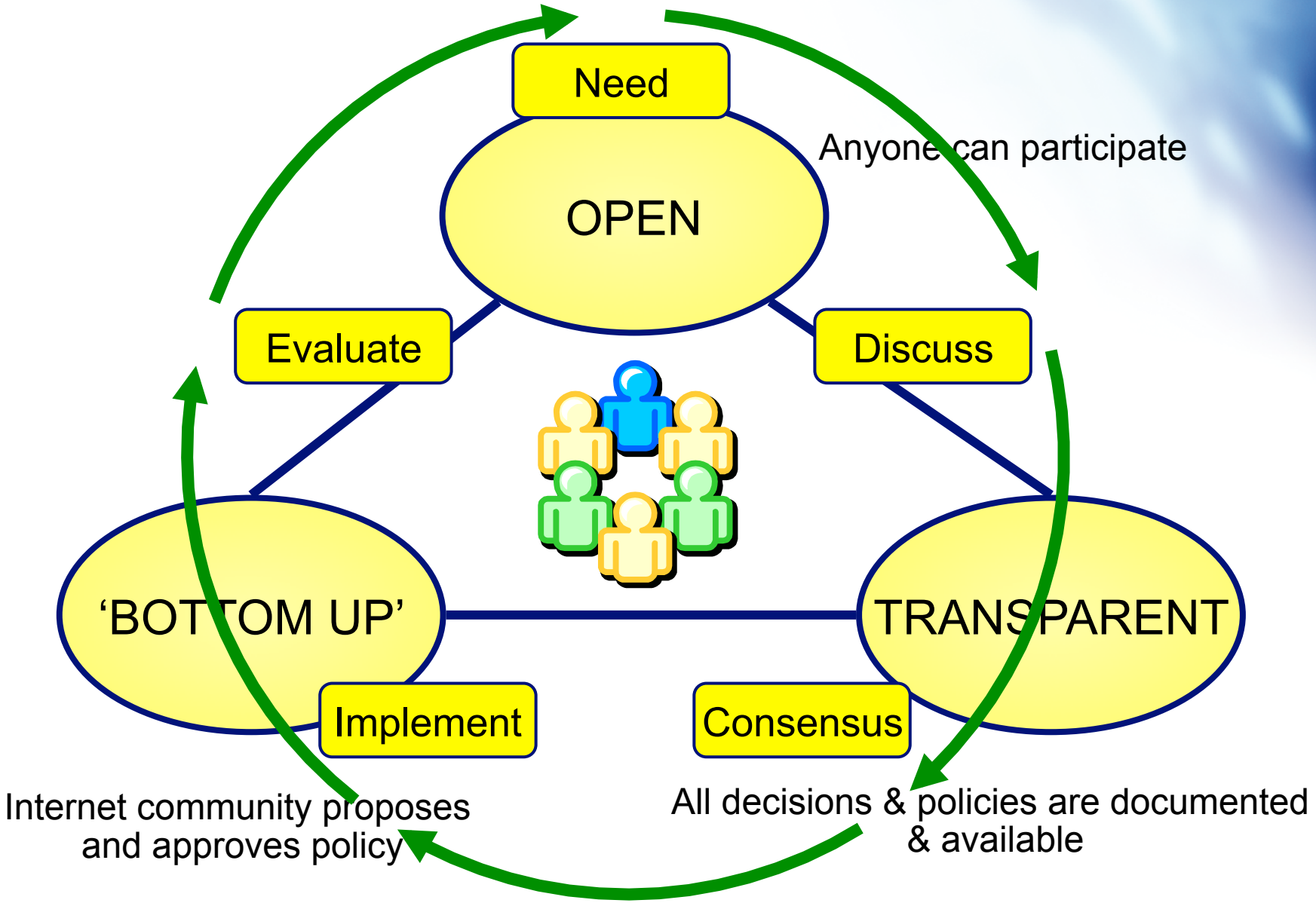
The policy development process



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Participation in policy development

- Why should I participate?
  - Responsibility as part of the Asia Pacific Internet community
    - All community members share a role of managing critical internet resources
  - Business reasons
    - Policies affect the operating environment of your business and are constantly changing
    - Ensure your ‘needs’ are met
  - Educational
    - Learn and share experiences
    - Stay abreast with ‘best practices’ in the Internet

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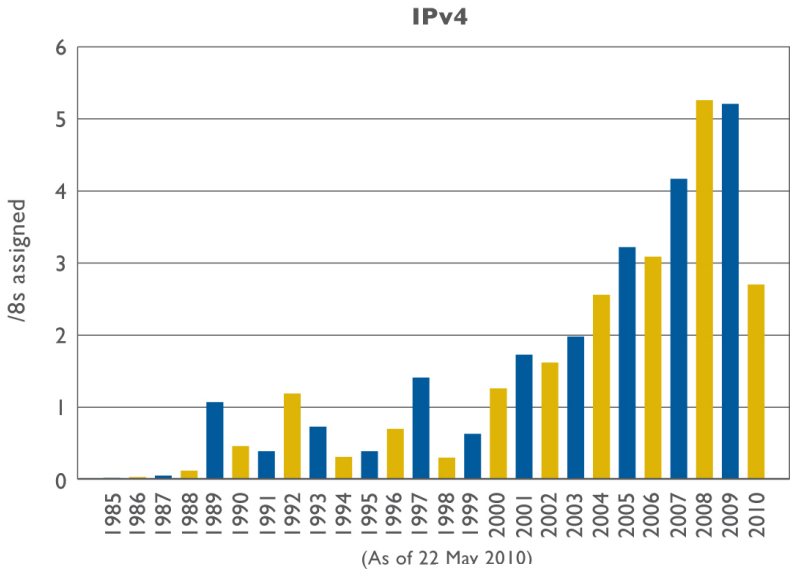
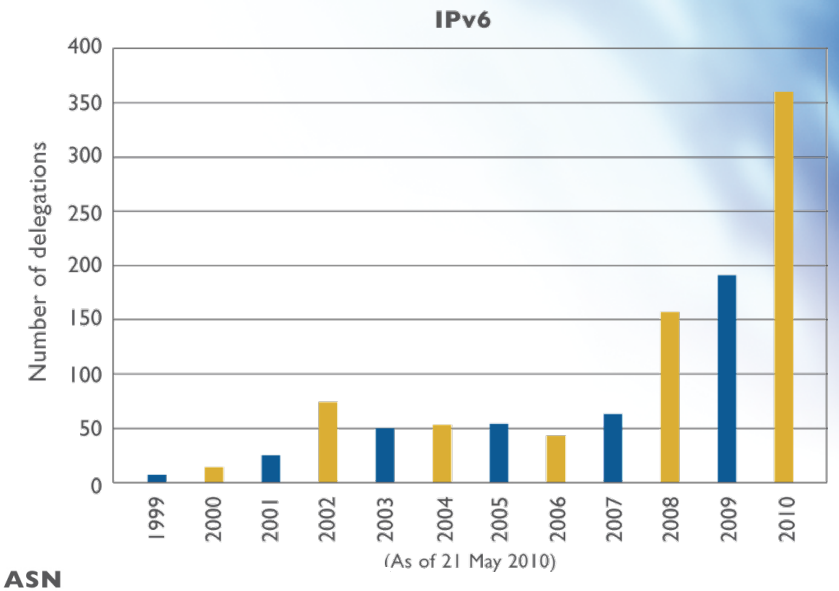
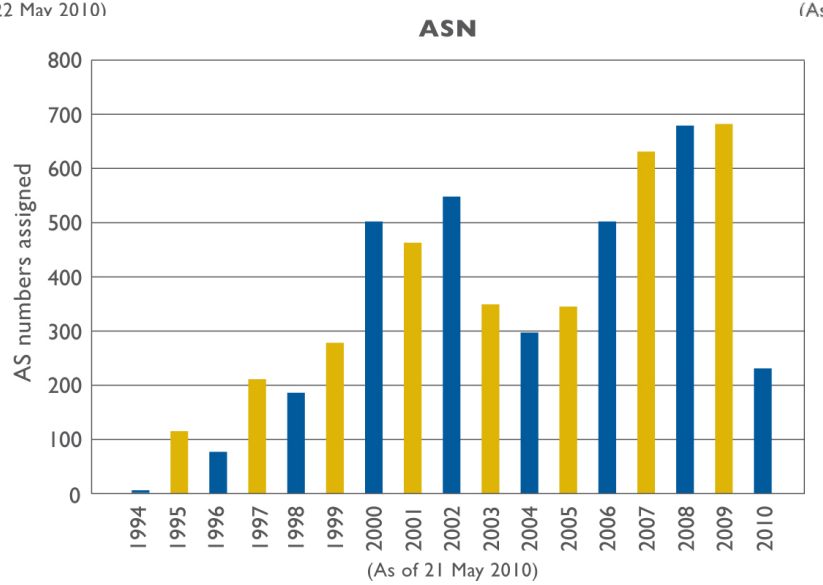
Resource Delegations







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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

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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

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APNIC 29 Policy Outcomes

Proposal	Title	Overview
Prop-079 Implement in November	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 Implement on 5 July	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 Implement on 5 July	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

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Last Policy and Fee Changes Implementations

Proposal	Title	Overview
Prop-050 Implemented 10 February	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.
Prop-073 Implemented 10 February	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

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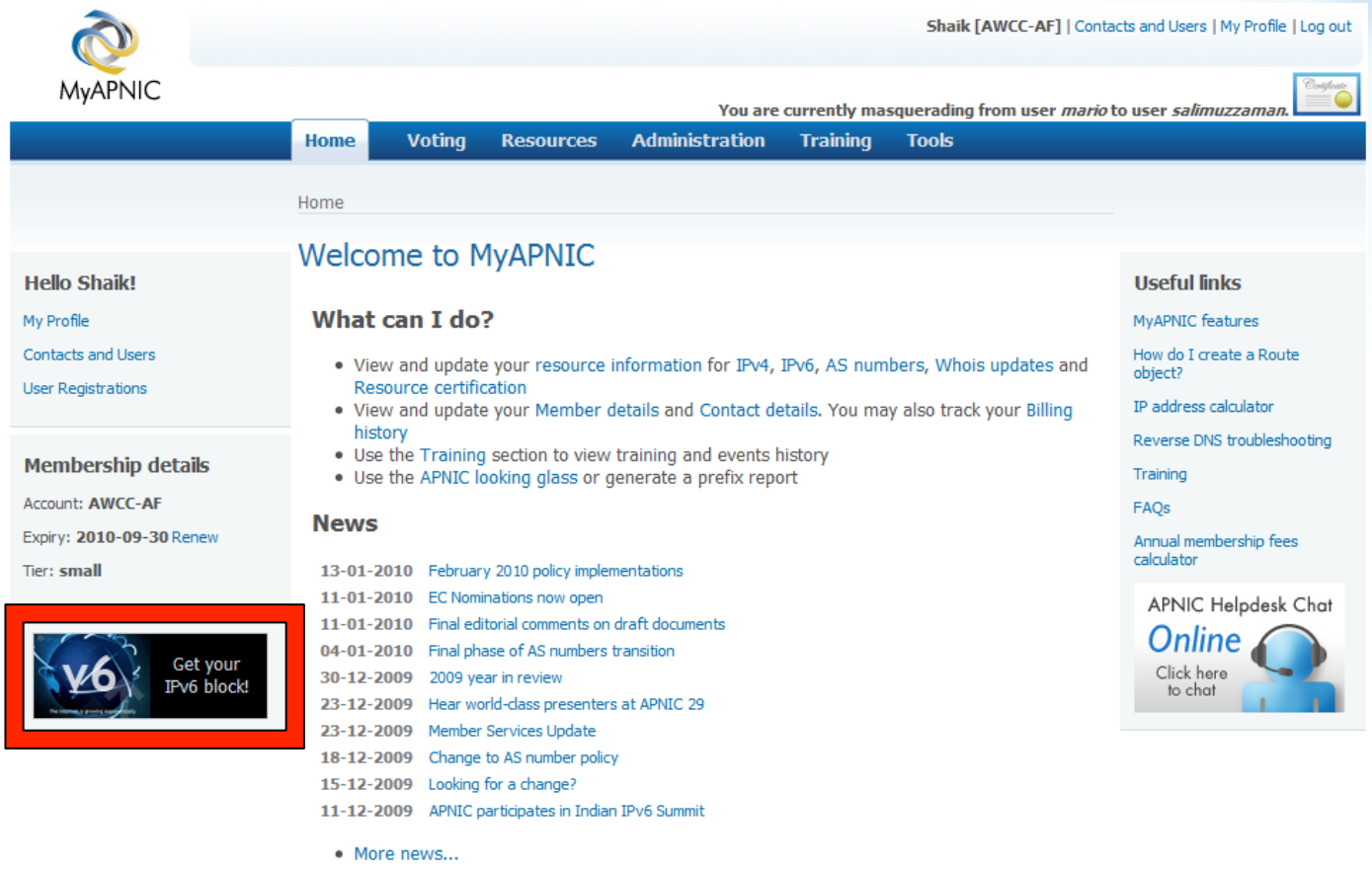
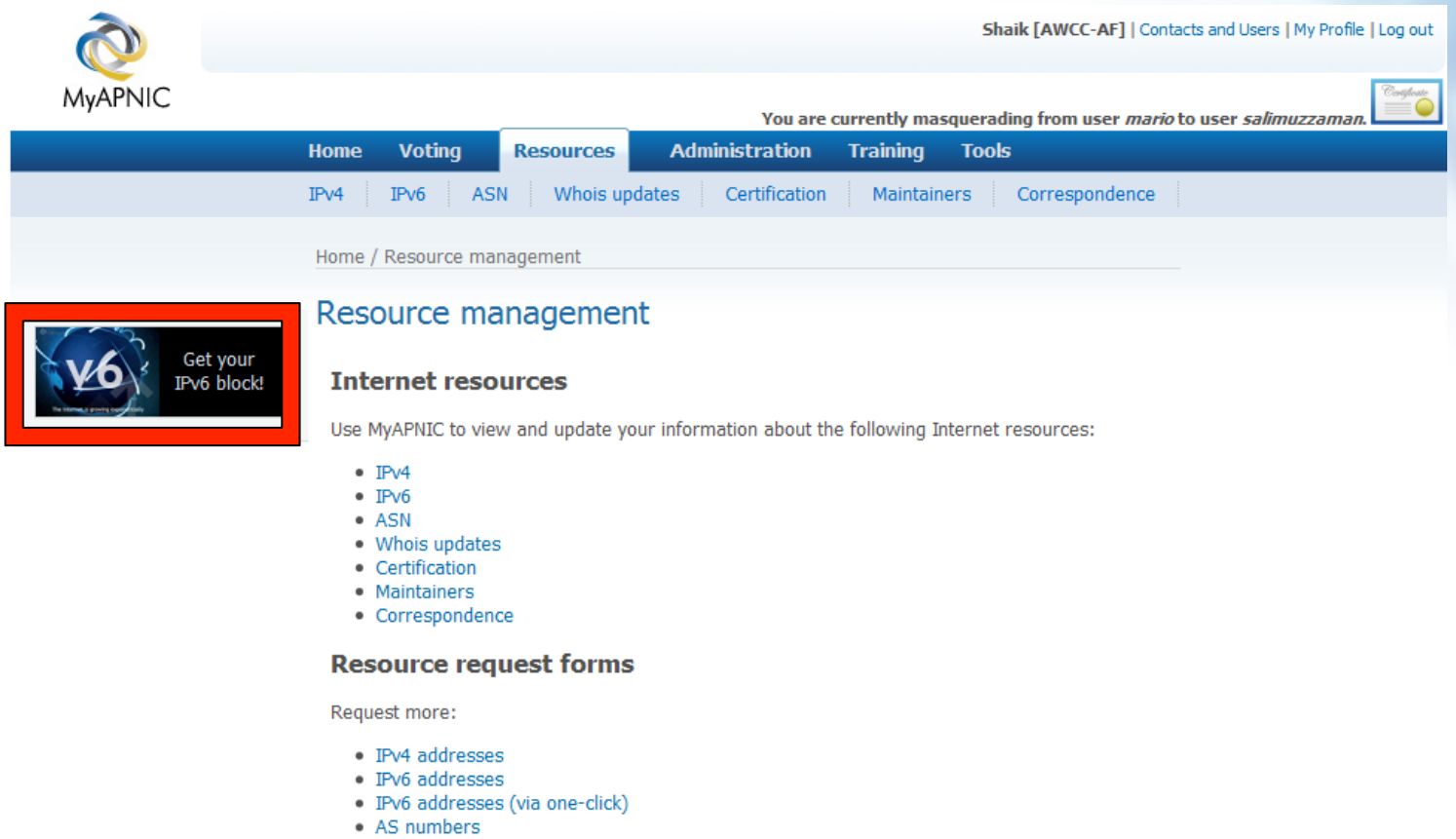
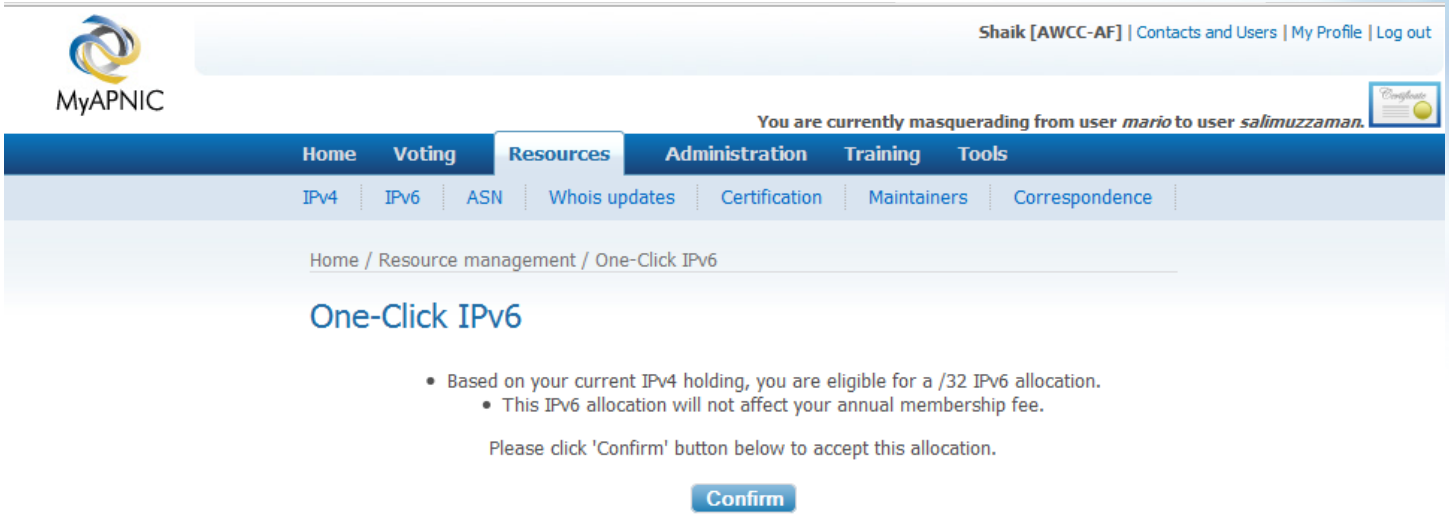
MyAPNIC home page



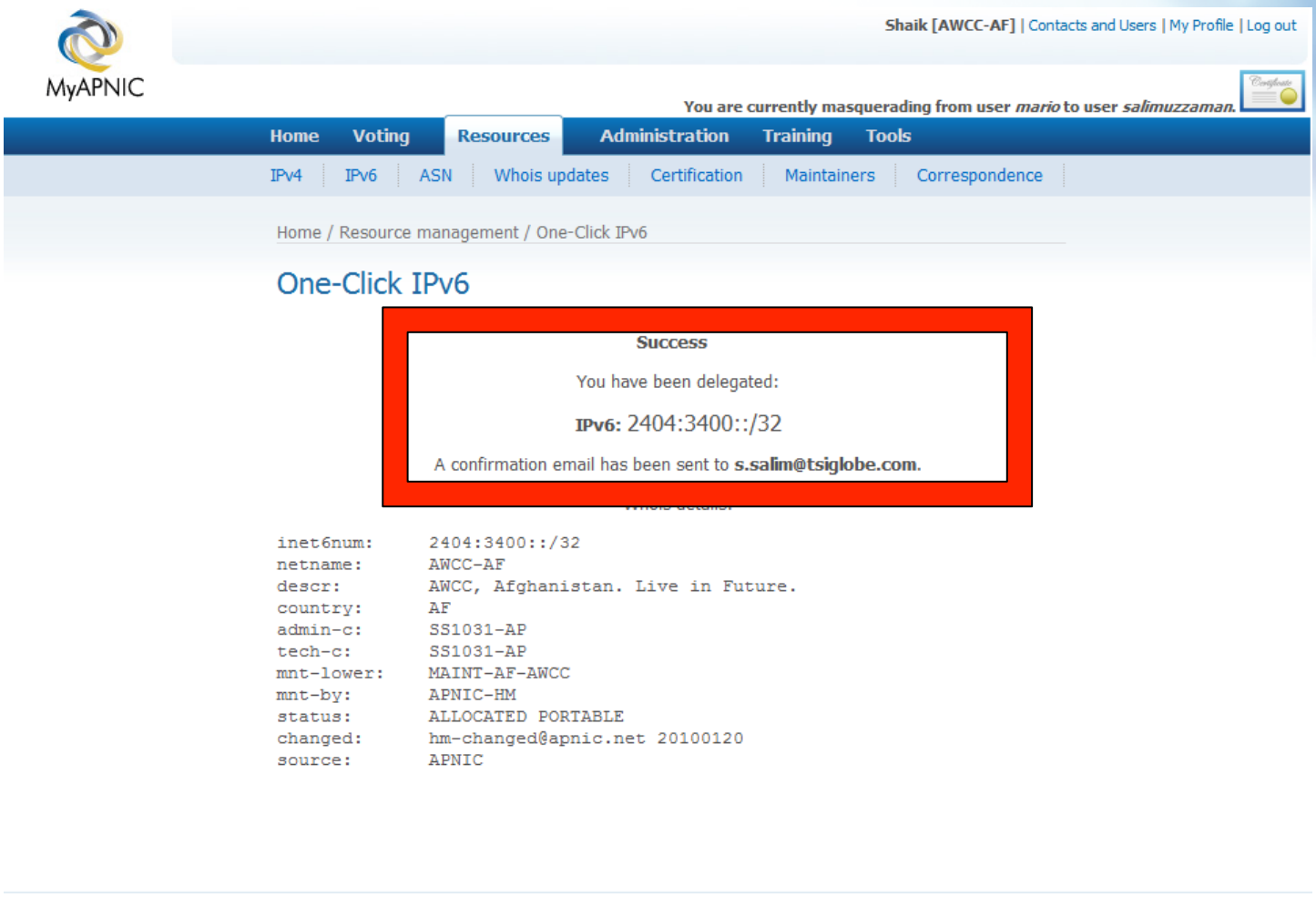
Resources Home Page



Just one click…



And you have your IPv6!



Research and Development

- Routing research
- RPKI (joint with other RIR/NRO)
- DNS service dynamics
- DNSSEC implementation
- 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

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Technical Developments

- DNSSEC
  - Phase 3
- 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

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IPv6 Program Update

- 10% Media Campaign (with IANA)
  - About 7% 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

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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

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Other APNIC News New Building

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

Google Map Location

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Next APNIC Meeting

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

http://meeting.apnic.net/30

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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
- All invited !!!

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Thank You

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