



APNIC Activity Highlights

PacNOG 7

June 2010

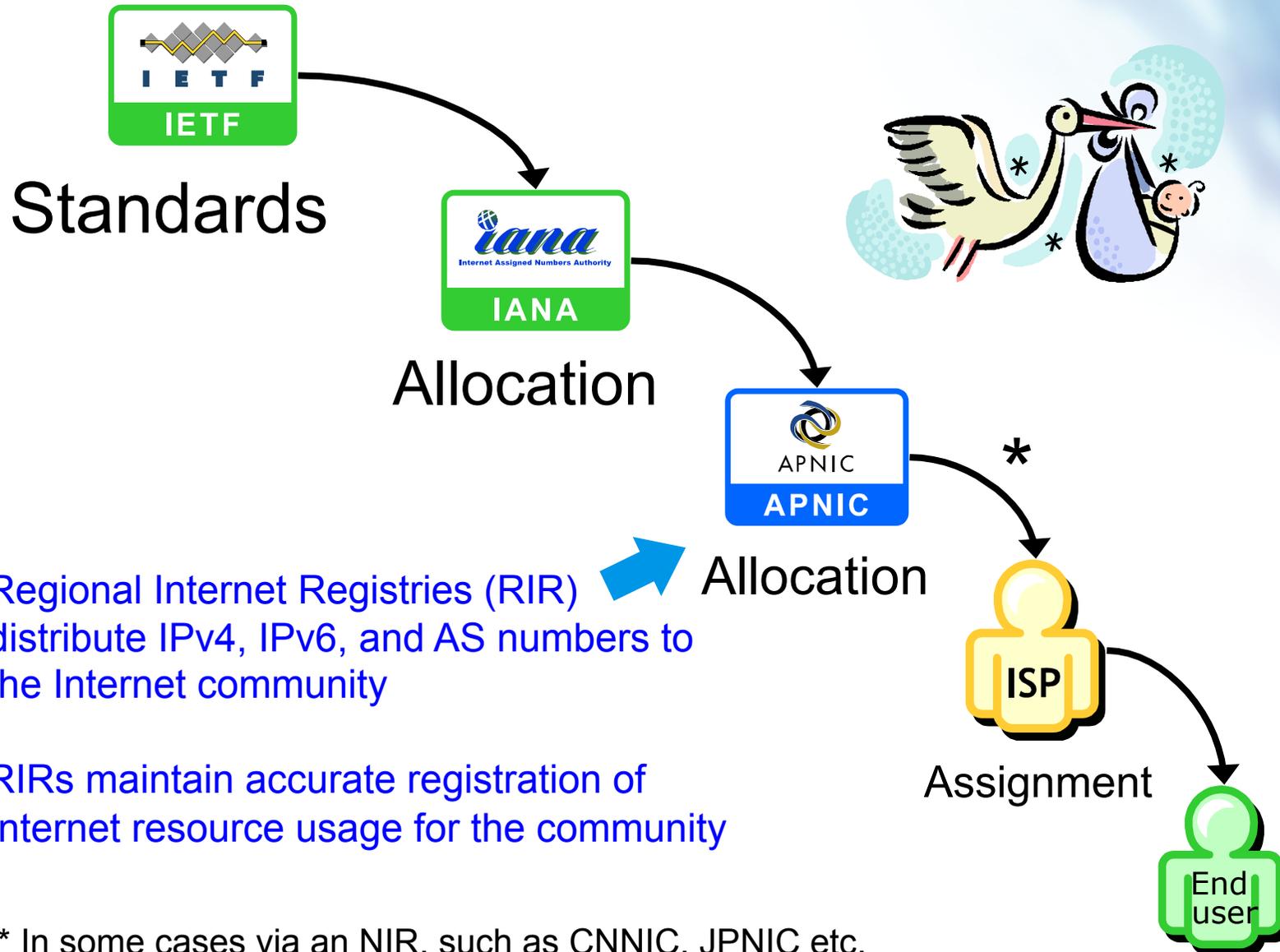
Elly Tawhai

Senior Internet Resource Analyst/Liaison
Officer, Pacific, APNIC

Overview

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

Where do IP addresses come from?

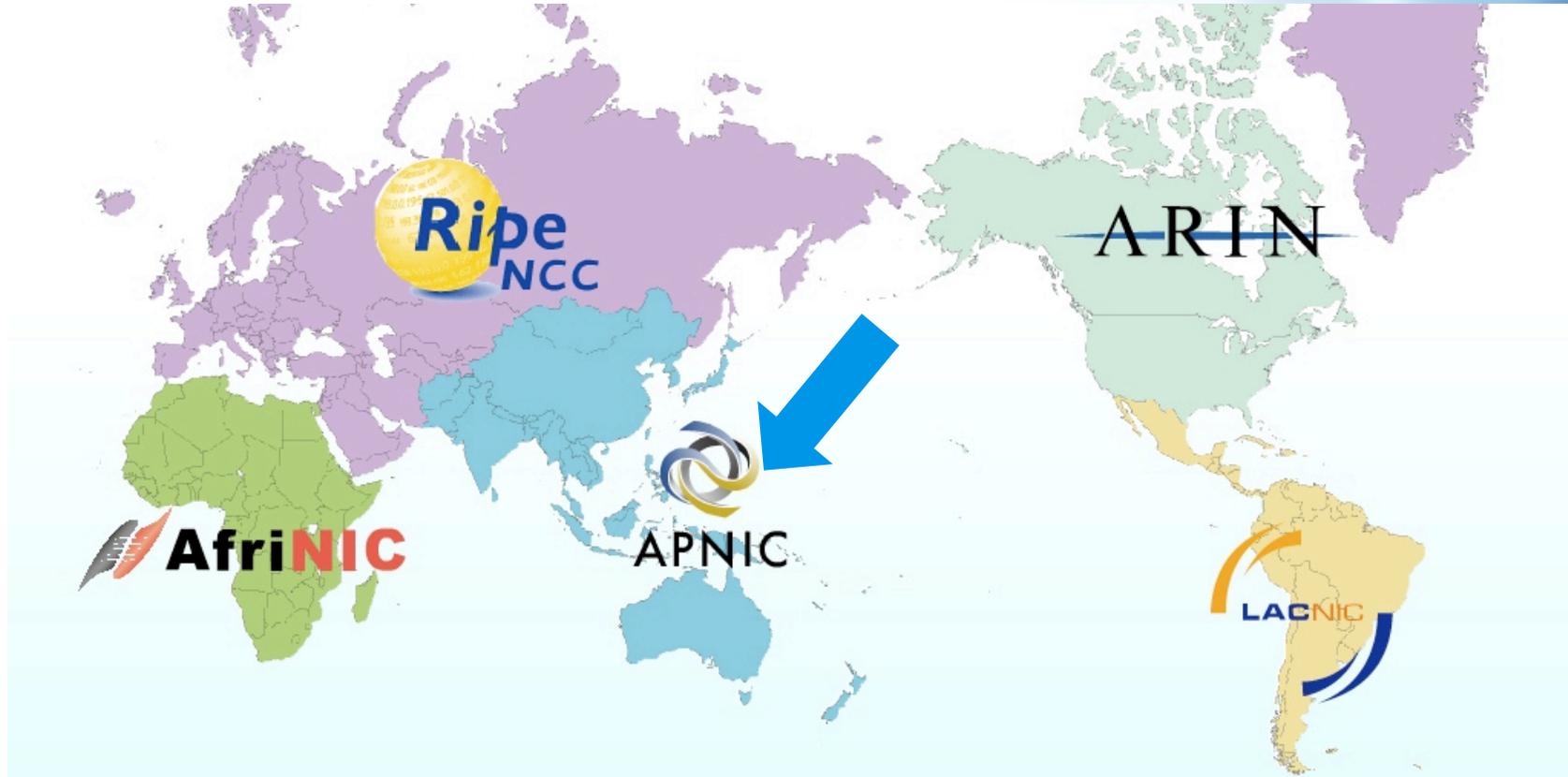


Regional Internet Registries (RIR) distribute IPv4, IPv6, and AS numbers to the Internet community

RIRs maintain accurate registration of Internet resource usage for the community

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

Regional Internet Registries

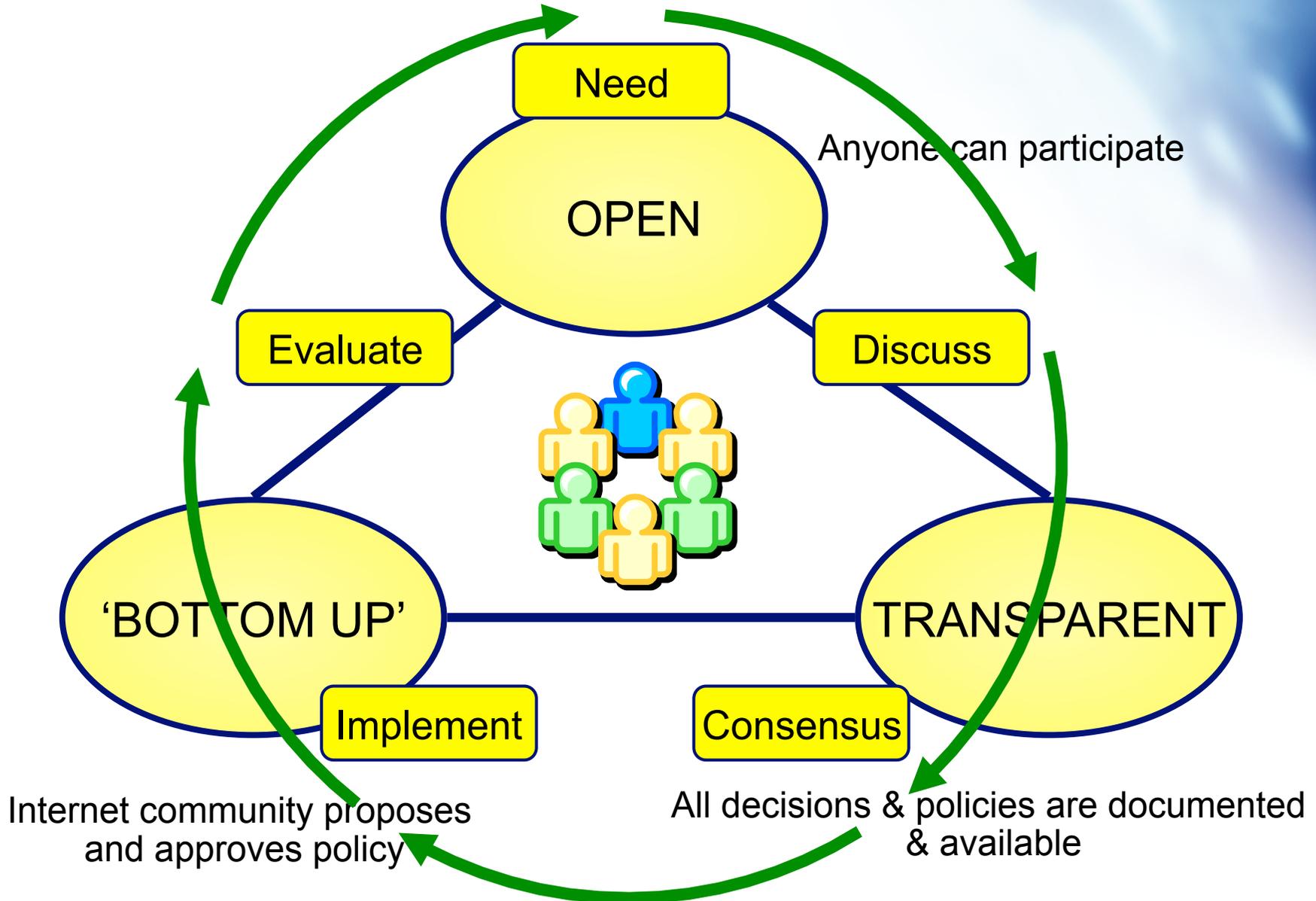


The Internet community established the RIRs to provide fair and consistent resource distribution and accurate resource registration throughout the world.

What does APNIC do?

<p><u>Resource service</u></p> <ul style="list-style-type: none">• IPv4, IPv6, ASNs• Reverse DNS delegation• Resource registration<ul style="list-style-type: none">• Authoritative registration server<ul style="list-style-type: none">• whois• IRR	<p><u>Policy development</u></p> <ul style="list-style-type: none">• Facilitating the policy development process• Implementing policy changes
<p><u>Information dissemination</u></p> <ul style="list-style-type: none">• APNIC meetings• Web and ftp site• Publications, mailing lists• Outreach seminars <p>http://www.apnic.net/community/lists/</p>	<p><u>Training</u></p> <ul style="list-style-type: none">• Face to Face• Via e-learning- Subsidised for members <p>Schedule: http://www.apnic.net/training</p>

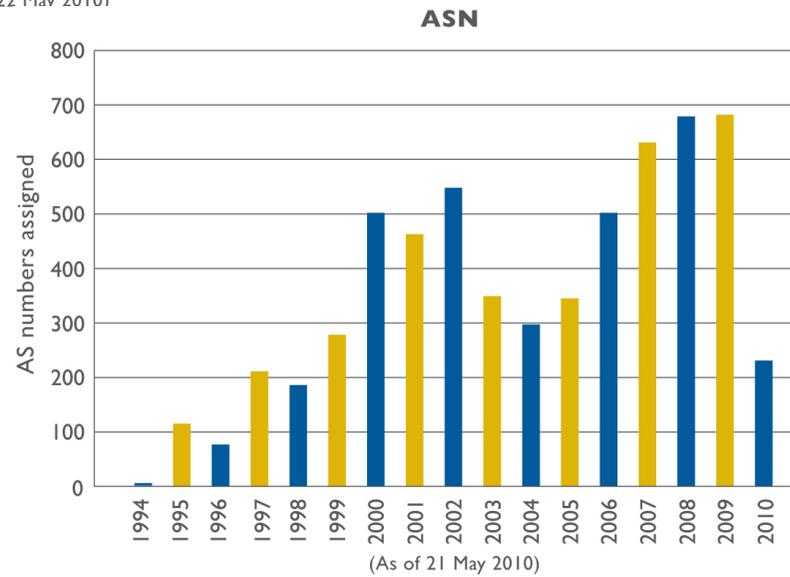
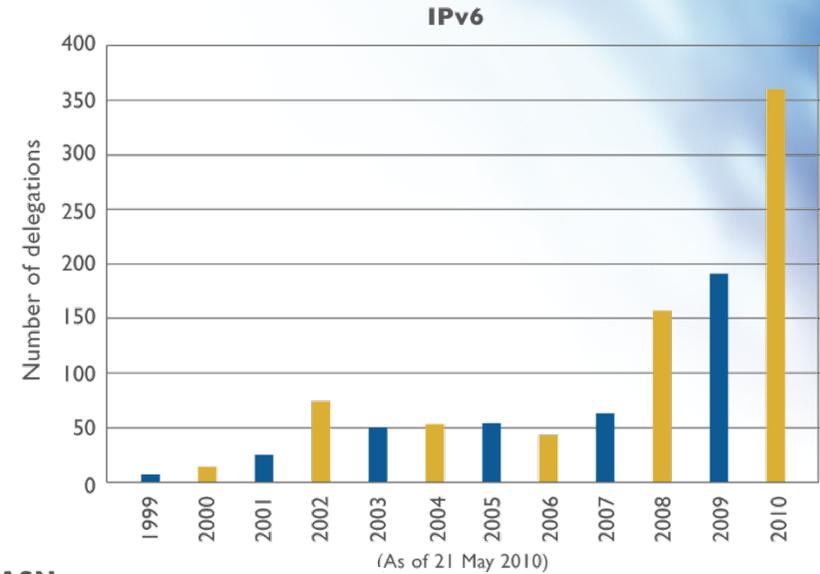
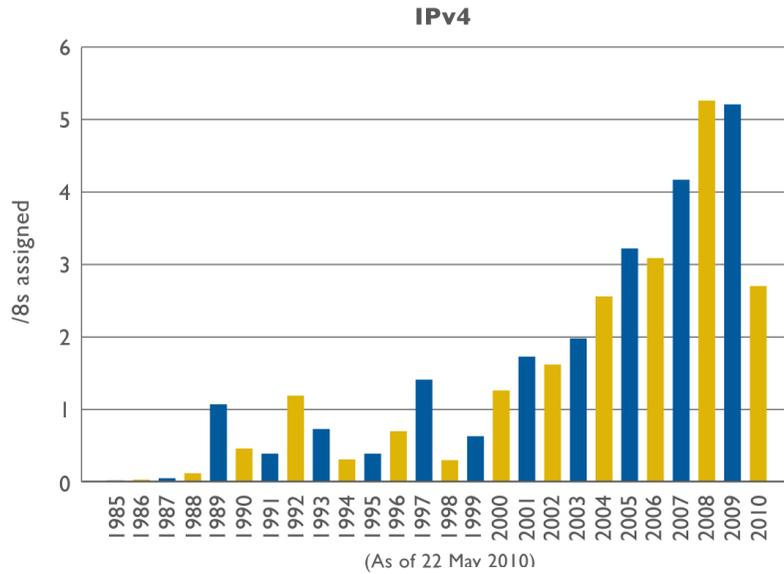
The policy development process



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

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
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>

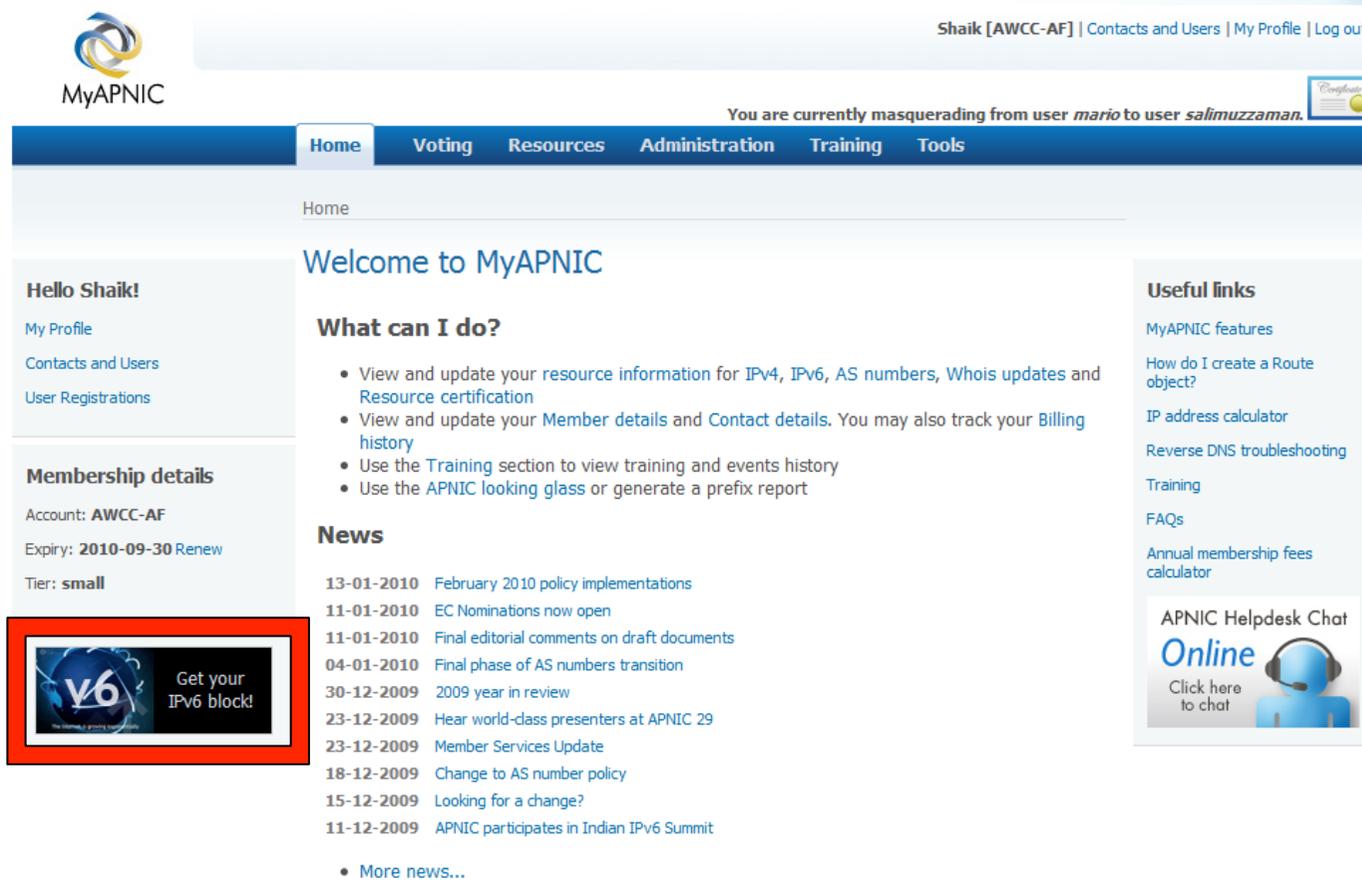
Last Policy and Fee Changes Implementations

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

MyAPNIC home page



MyAPNIC logo:  MyAPNIC

Shaik [AWCC-AF] | [Contacts and Users](#) | [My Profile](#) | [Log out](#)

You are currently masquerading from user *mario* to user *salimuzzaman*. 

Home | [Voting](#) | [Resources](#) | [Administration](#) | [Training](#) | [Tools](#)

Home

Welcome to MyAPNIC

Hello Shaik!

[My Profile](#)
[Contacts and Users](#)
[User Registrations](#)

Membership details

Account: **AWCC-AF**

Expiry: **2010-09-30** [Renew](#)

Tier: **small**

What can I do?

- View and update your resource information for IPv4, IPv6, AS numbers, Whois updates and [Resource certification](#)
- View and update your [Member details](#) and [Contact details](#). You may also track your [Billing history](#)
- Use the [Training](#) section to view training and events history
- Use the [APNIC looking glass](#) or generate a prefix report

News

- 13-01-2010 [February 2010 policy implementations](#)
- 11-01-2010 [EC Nominations now open](#)
- 11-01-2010 [Final editorial comments on draft documents](#)
- 04-01-2010 [Final phase of AS numbers transition](#)
- 30-12-2009 [2009 year in review](#)
- 23-12-2009 [Hear world-class presenters at APNIC 29](#)
- 23-12-2009 [Member Services Update](#)
- 18-12-2009 [Change to AS number policy](#)
- 15-12-2009 [Looking for a change?](#)
- 11-12-2009 [APNIC participates in Indian IPv6 Summit](#)

• [More news...](#)

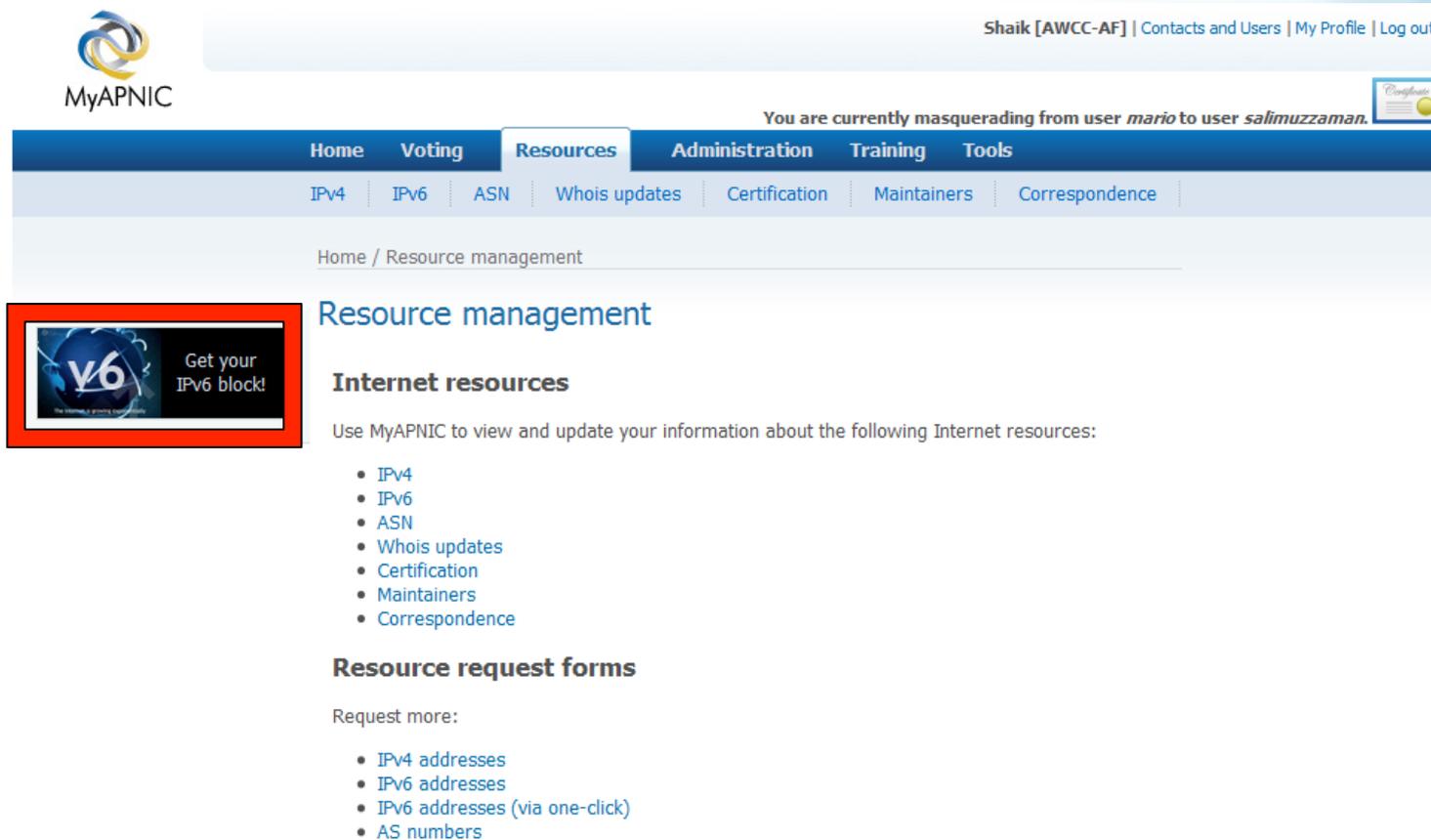
Useful links

[MyAPNIC features](#)
[How do I create a Route object?](#)
[IP address calculator](#)
[Reverse DNS troubleshooting](#)
[Training](#)
[FAQs](#)
[Annual membership fees calculator](#)

APNIC Helpdesk Chat
Online 
[Click here to chat](#)

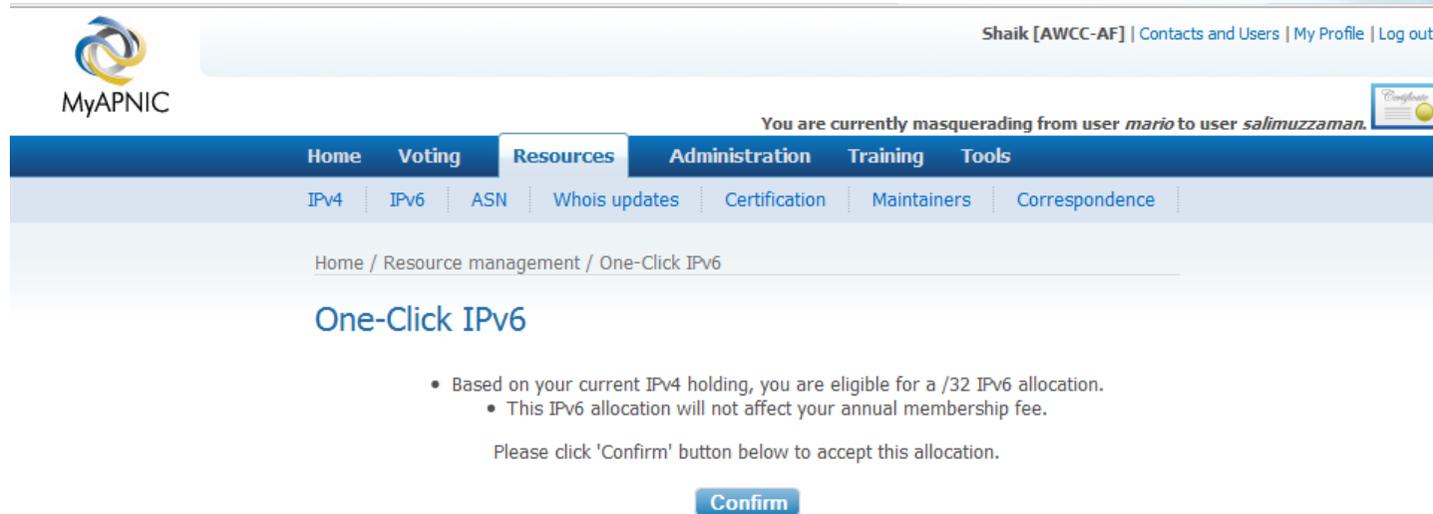


Resources Home Page



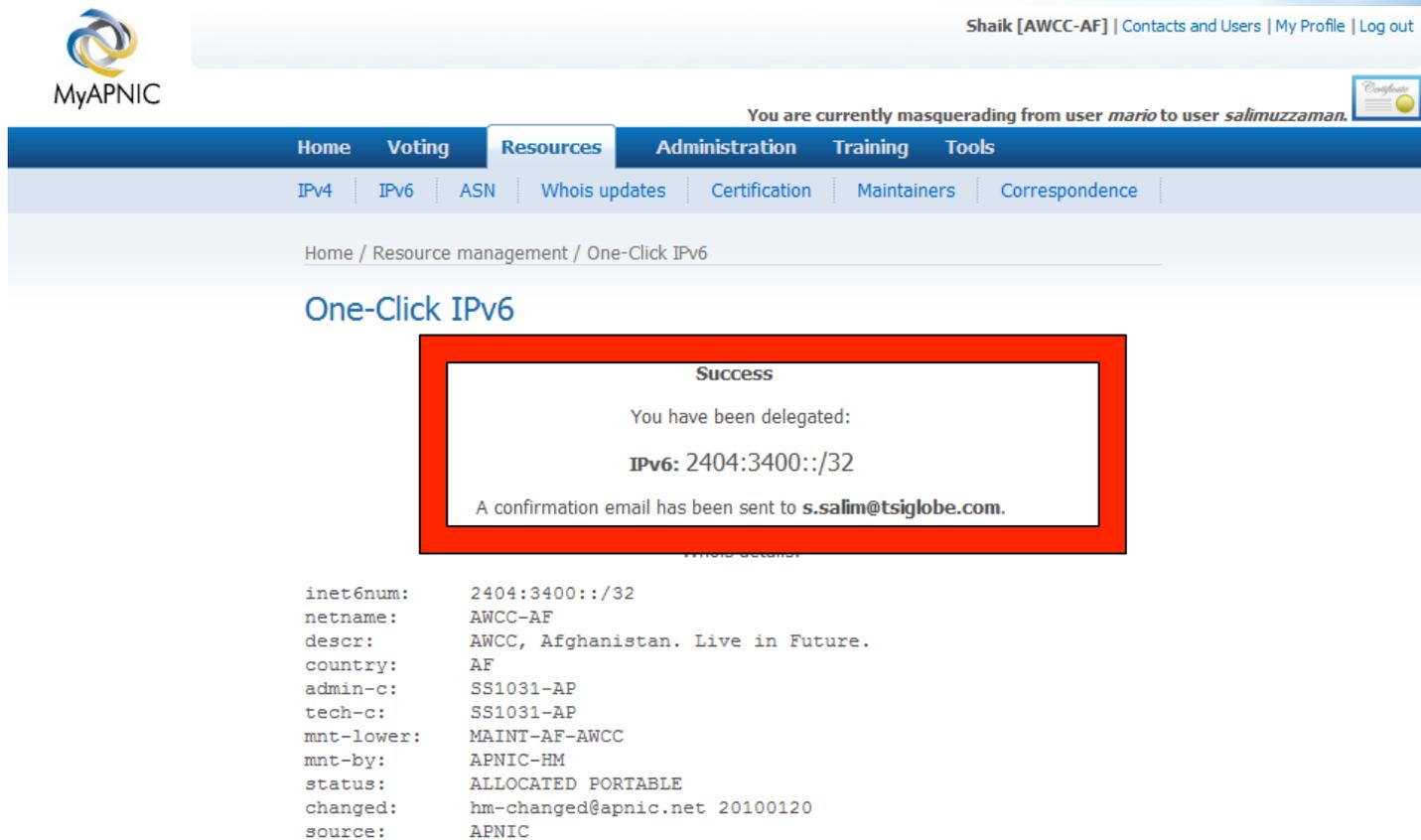
The screenshot shows the MyAPNIC website interface. At the top left is the MyAPNIC logo. On the right, a user is logged in as Shaik [AWCC-AF] with links for Contacts and Users, My Profile, and Log out. A notification states: "You are currently masquerading from user *mario* to user *salimuzzaman*." Below this is a navigation menu with tabs for Home, Voting, Resources (selected), Administration, Training, and Tools. Under the Resources tab, there are sub-links for IPv4, IPv6, ASN, Whois updates, Certification, Maintainers, and Correspondence. The breadcrumb trail shows "Home / Resource management". The main heading is "Resource management". A red-bordered box highlights a banner that says "v6 Get your IPv6 block!". Below this is the "Internet resources" section, which instructs users to use MyAPNIC to view and update information about various resources, listed as: IPv4, IPv6, ASN, Whois updates, Certification, Maintainers, and Correspondence. The "Resource request forms" section lists: IPv4 addresses, IPv6 addresses, IPv6 addresses (via one-click), and AS numbers.

Just one click...



The screenshot shows the MyAPNIC website interface. At the top left is the MyAPNIC logo. On the top right, there is a user profile section for 'Shaik [AWCC-AF]' with links for 'Contacts and Users', 'My Profile', and 'Log out'. Below this is a notification: 'You are currently masquerading from user *mario* to user *salimuzzaman*.' with a 'Confirm' button. A navigation menu includes 'Home', 'Voting', 'Resources', 'Administration', 'Training', and 'Tools'. Under 'Resources', there are sub-links for 'IPv4', 'IPv6', 'ASN', 'Whois updates', 'Certification', 'Maintainers', and 'Correspondence'. The breadcrumb trail reads 'Home / Resource management / One-Click IPv6'. The main heading is 'One-Click IPv6'. Below it, a list of bullet points states: 'Based on your current IPv4 holding, you are eligible for a /32 IPv6 allocation.' and 'This IPv6 allocation will not affect your annual membership fee.' A text prompt says 'Please click 'Confirm' button below to accept this allocation.' followed by a blue 'Confirm' button.

And you have your IPv6!



The screenshot shows the MyAPNIC website interface. At the top right, the user is identified as Shaik [AWCC-AF] with links for Contacts and Users, My Profile, and Log out. A notification indicates the user is currently masquerading from user *mario* to user *salimuzzaman*. The navigation menu includes Home, Voting, Resources, Administration, Training, and Tools. Below this, there are links for IPv4, IPv6, ASN, Whois updates, Certification, Maintainers, and Correspondence. The breadcrumb trail shows Home / Resource management / One-Click IPv6. The main heading is "One-Click IPv6". A red-bordered box highlights a success message: "Success. You have been delegated: IPv6: 2404:3400::/32. A confirmation email has been sent to s.salim@tsiglobe.com." Below this, the WHOIS record for the IPv6 address is displayed.

```
inet6num: 2404:3400::/32
netname: AWCC-AF
descr: AWCC, Afghanistan. Live in Future.
country: AF
admin-c: SS1031-AP
tech-c: SS1031-AP
mnt-lower: MAINT-AF-AWCC
mnt-by: APNIC-HM
status: ALLOCATED PORTABLE
changed: hm-changed@apnic.net 20100120
source: APNIC
```

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

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

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

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 New Building

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



[Google Map Location](#)

Next APNIC Meeting



APNIC 30

24 - 27 August 2010, Gold Coast, Australia



- 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
- All invited !!!

Thank You

elly@apnic.net