

# APNIC Activity Highlights

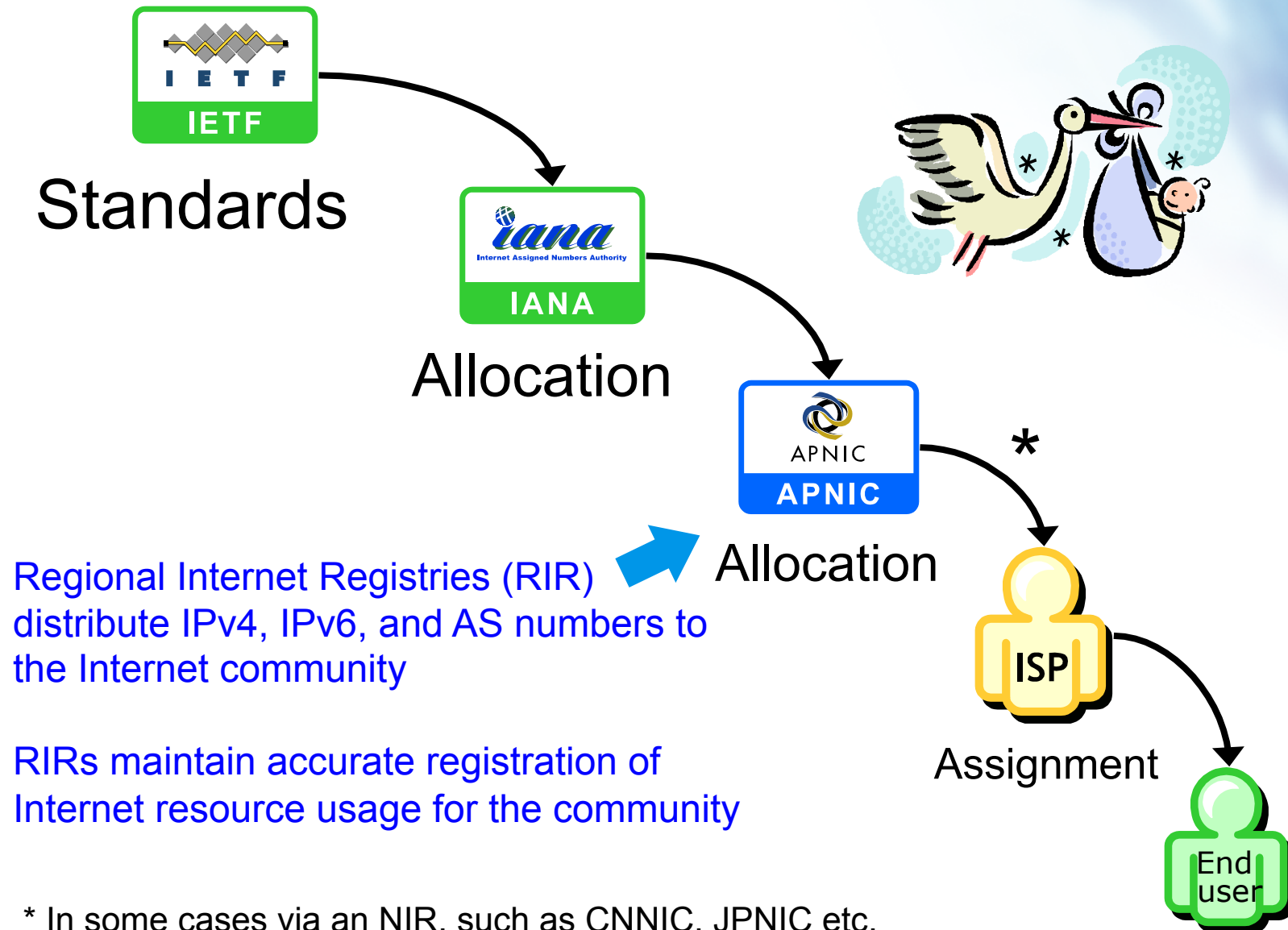
PacNOG 7  
June 2010

Elly Tawhai  
Senior Internet Resource Analyst/Liaison  
Officer, Pacific, APNIC

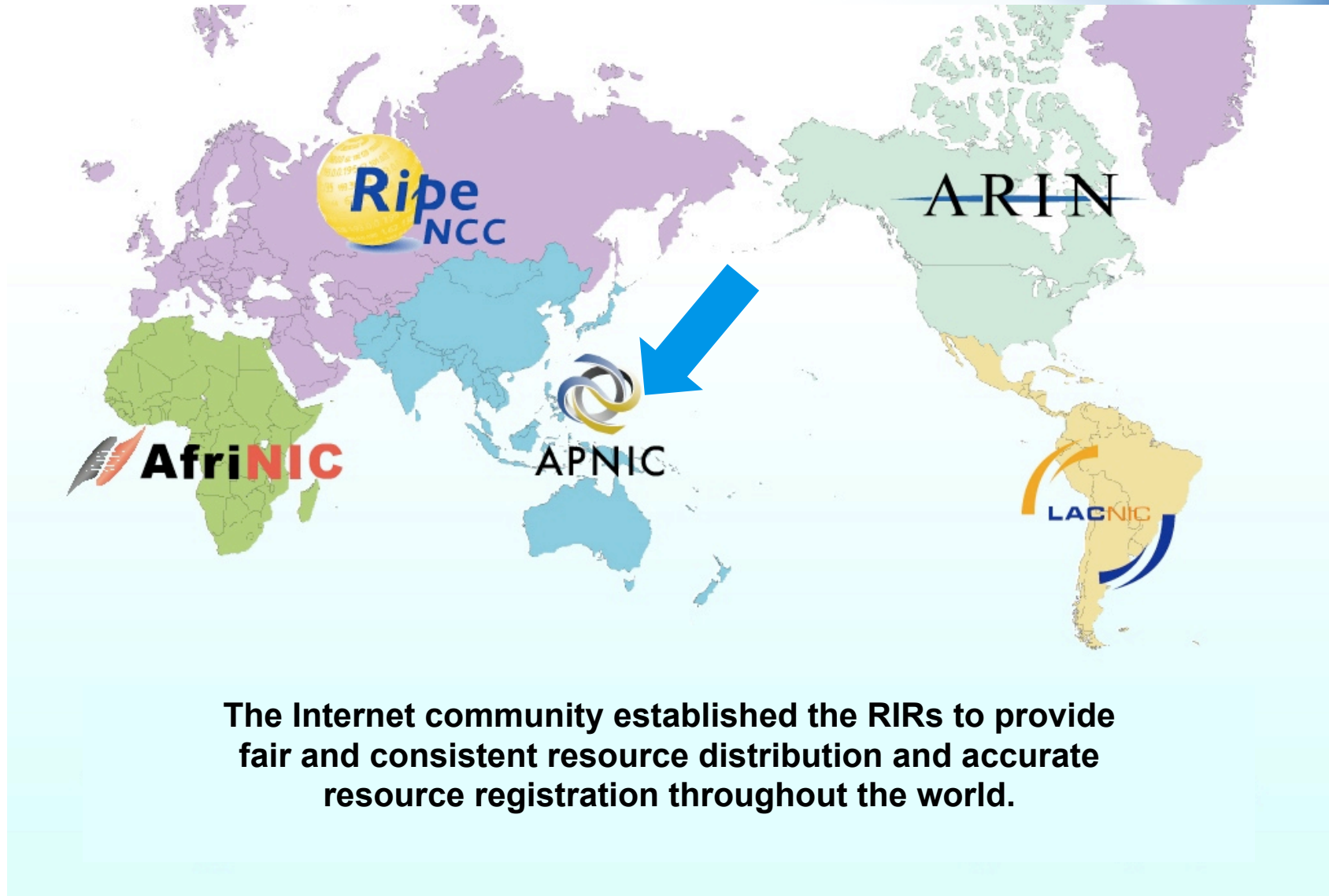
# Overview

- 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



# 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/>

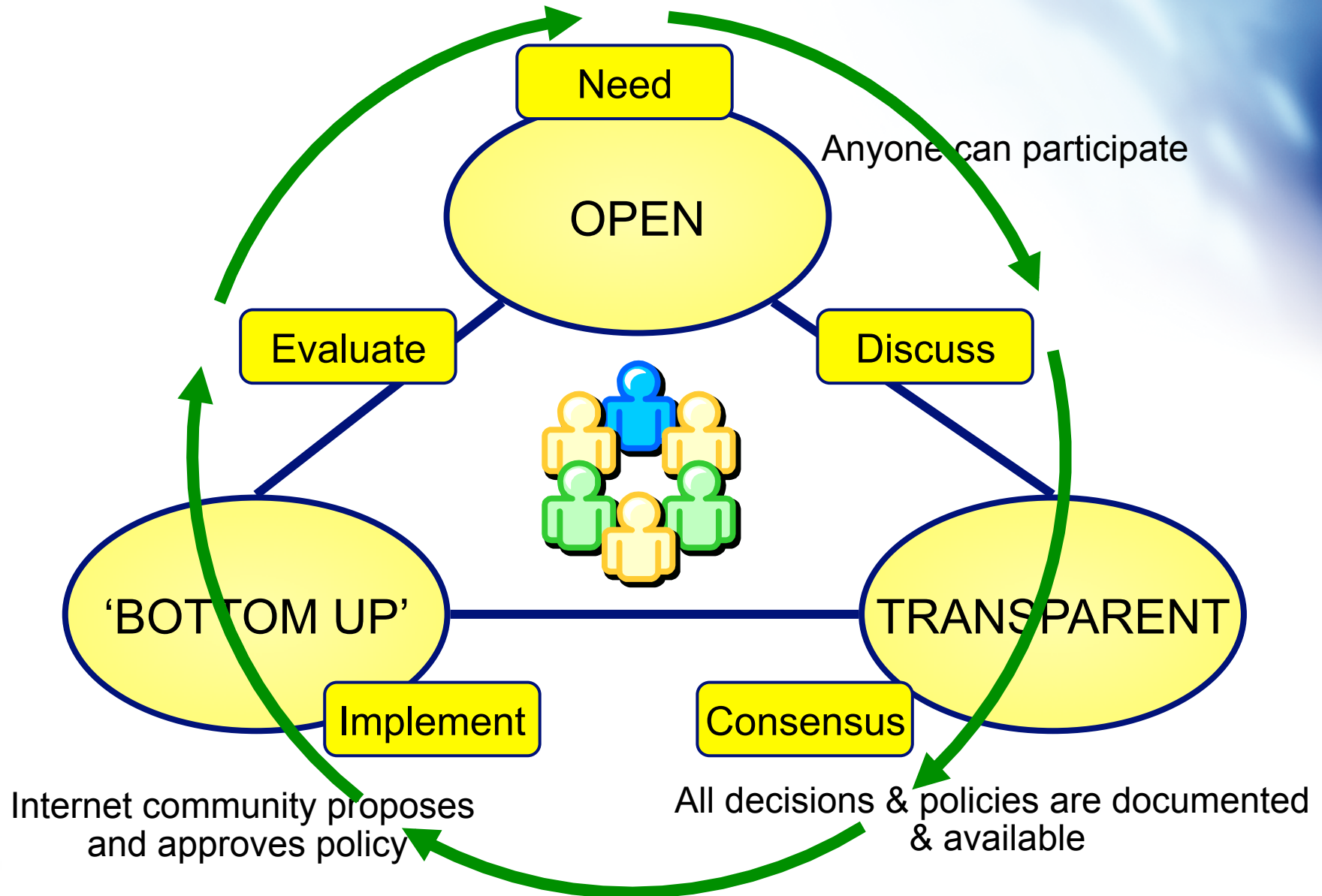
## Training

- Face to Face
- Via e-learning
- Subsidised for members

Schedule:

<http://www.apnic.net/training>

# The policy development process

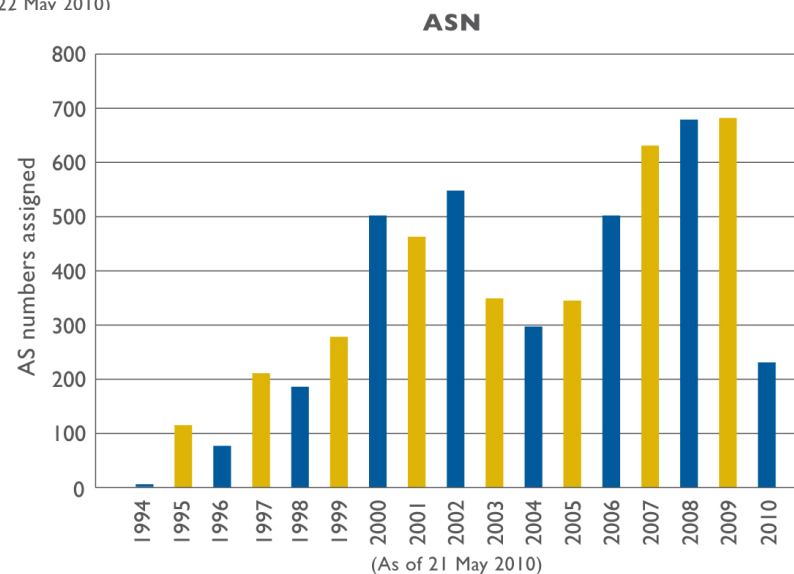
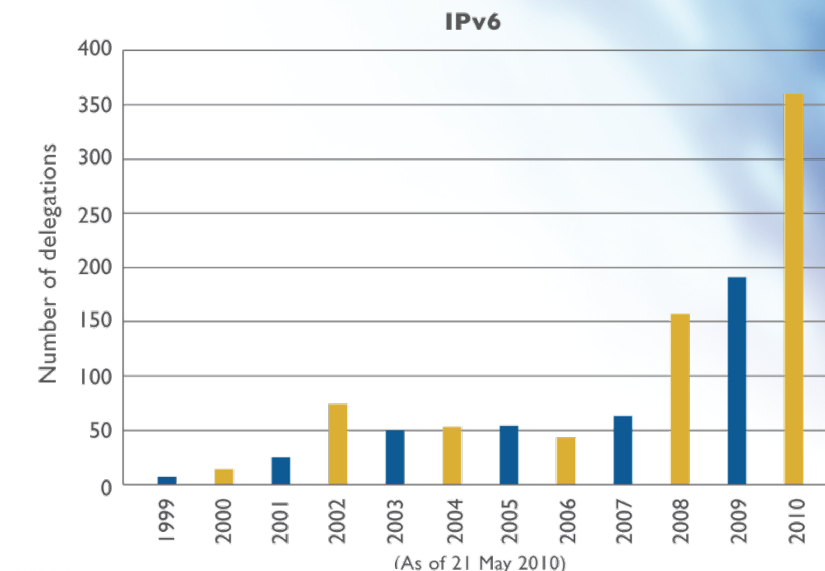
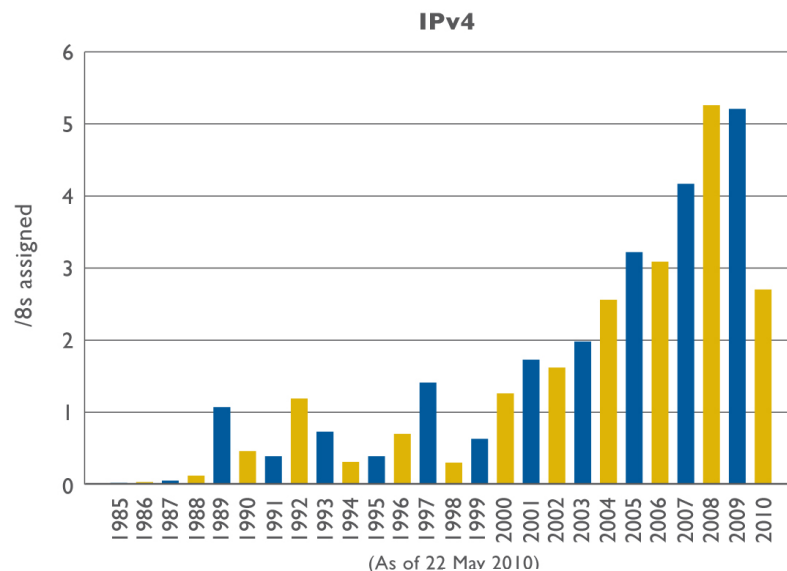




# Participation in policy development

- 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
<b>Prop-079</b> 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.
<b>Prop-080</b> 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.
<b>Prop-082</b> 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>

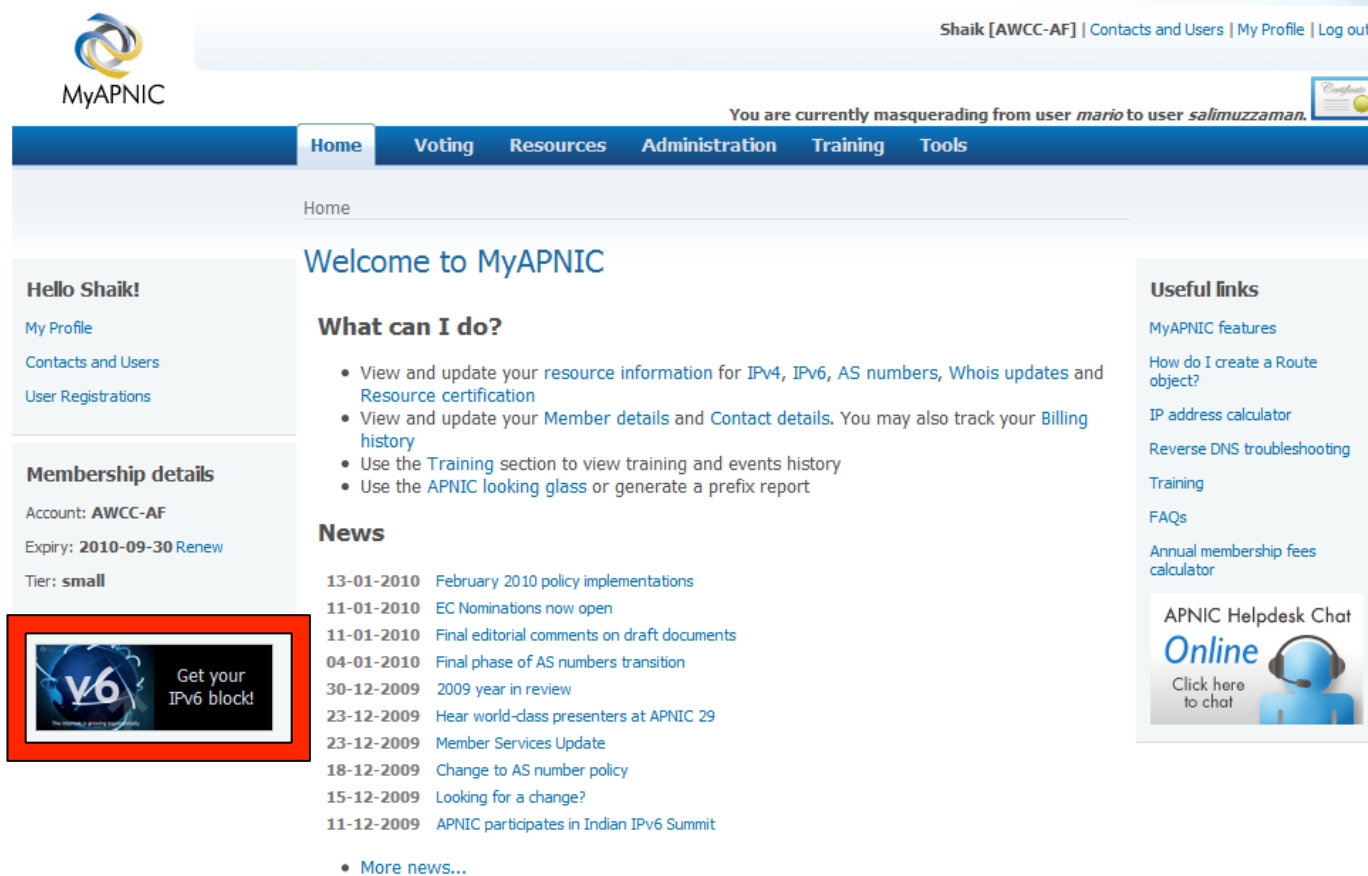
# Last Policy and Fee Changes Implementations

Proposal	Title	Overview
<b>Prop-050</b> 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.
<b>Prop-073</b> 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**

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

**v6** Get your IPv6 block!

# Resources Home Page



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

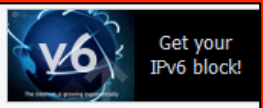
You are currently masquerading from user *mario* to user *salimuzzaman*. 

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

[IPv4](#) | [IPv6](#) | [ASN](#) | [Whois updates](#) | [Certification](#) | [Maintainers](#) | [Correspondence](#)

[Home](#) / [Resource management](#)

## Resource management



### Internet resources

Use MyAPNIC to view and update your information about the following Internet resources:

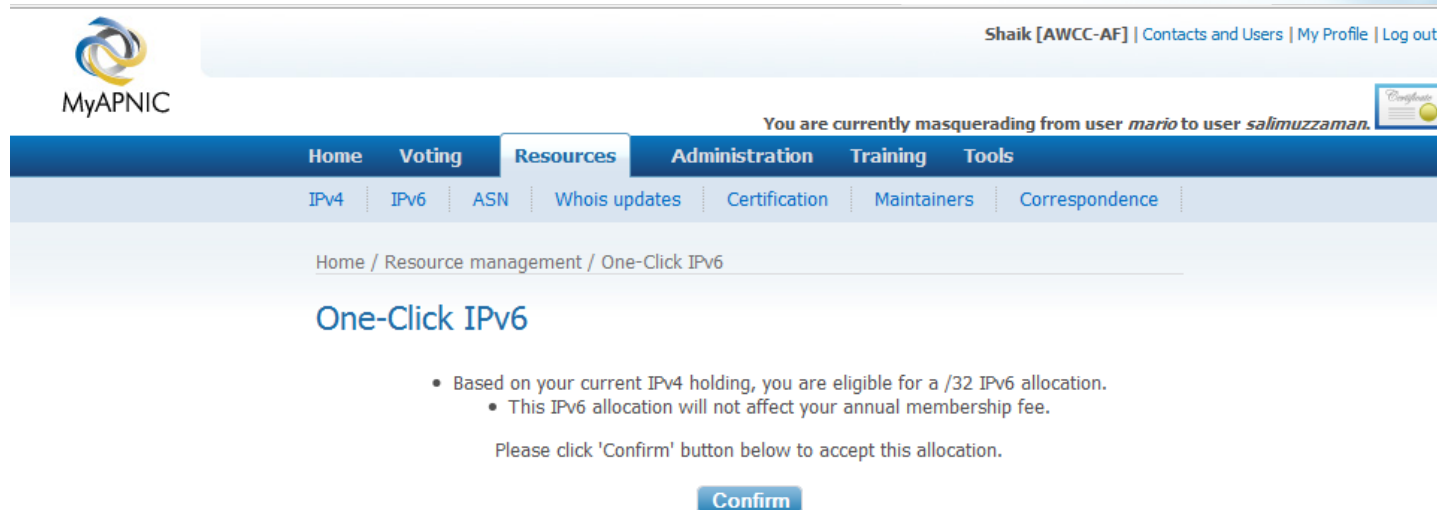
- [IPv4](#)
- [IPv6](#)
- [ASN](#)
- [Whois updates](#)
- [Certification](#)
- [Maintainers](#)
- [Correspondence](#)

### Resource request forms

Request more:

- [IPv4 addresses](#)
- [IPv6 addresses](#)
- [IPv6 addresses \(via one-click\)](#)
- [AS numbers](#)

# Just one click...



The screenshot shows the MyAPNIC website interface. At the top left is the MyAPNIC logo. At the top right, it says "Shaik [AWCC-AF] | Contacts and Users | My Profile | Log out". Below this is a navigation bar with tabs: Home, Voting, Resources (selected), Administration, Training, and Tools. Under the Resources tab, there are links for IPv4, IPv6, ASN, Whois updates, Certification, Maintainers, and Correspondence. The main content area shows the breadcrumb "Home / Resource management / One-Click IPv6" and the title "One-Click IPv6". Below the title, there is a list of bullet points:

- Based on your current IPv4 holding, you are eligible for a /32 IPv6 allocation.
- This IPv6 allocation will not affect your annual membership fee.

Below the bullet points, it says "Please click 'Confirm' button below to accept this allocation." and there is a blue "Confirm" button.



# And you have your IPv6!

MyAPNIC

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

Home Voting Resources Administration Training Tools

IPv4 IPv6 ASN Whois updates Certification Maintainers Correspondence

Home / Resource management / One-Click IPv6

## One-Click IPv6

**Success**

You have been delegated:

**IPv6: 2404:3400::/32**

A confirmation email has been sent to **s.salim@tsiglobe.com**.

```
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 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](mailto:elly@apnic.net)