

APNIC: Supporting Internet Growth and Evolution

SANOG 16

15 - 23 July 2010

Paro, Bhutan

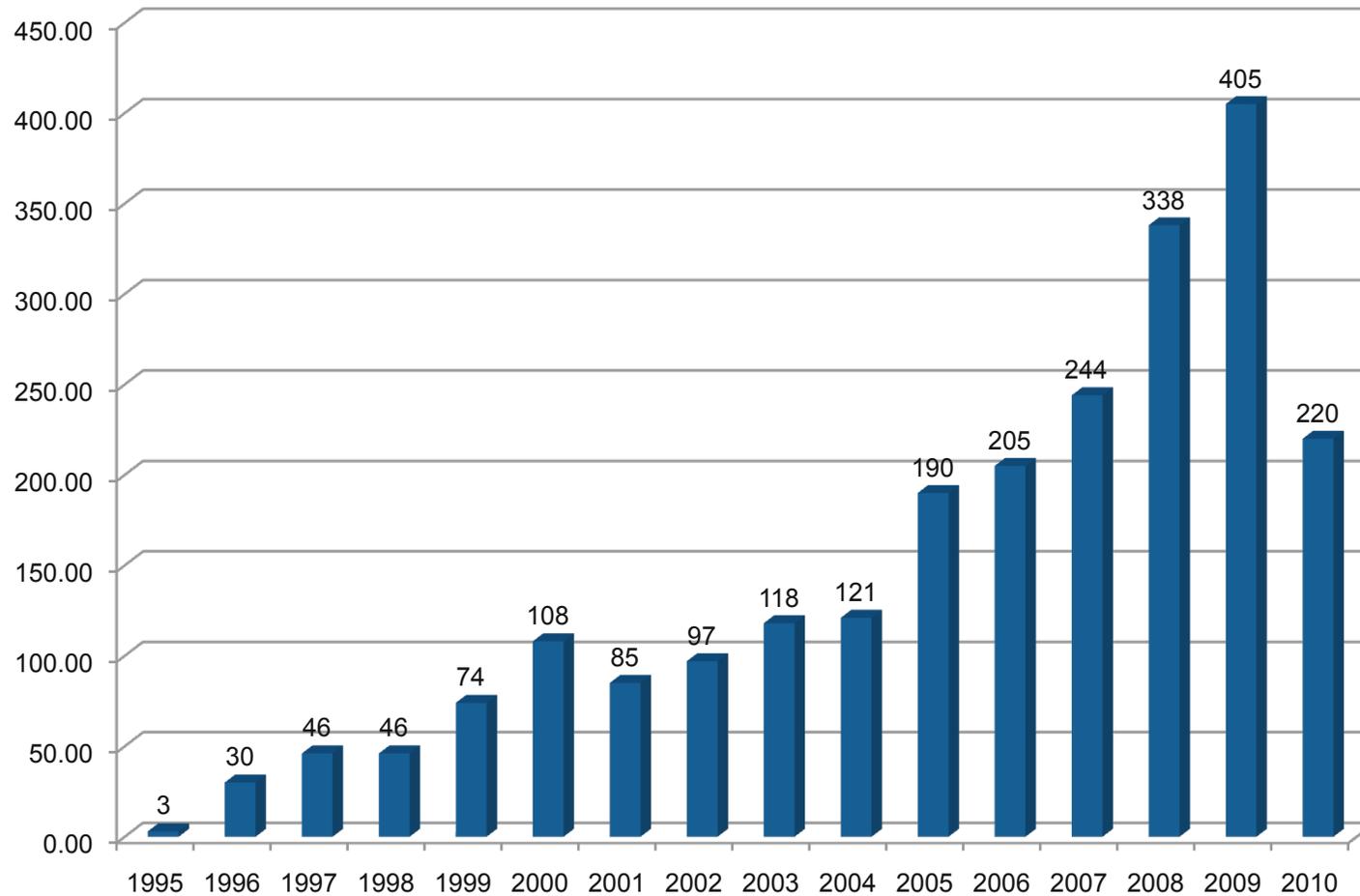
Speakers

- Srinivas (Sunny) Chendi
 - Senior Community Engagement Specialist
 - South Asia Liaison
- George Kuo
 - Member Services Manager

Overview

- Statistics
- Where are we now?
- APNIC Technical Developments
 - DNNSEC
 - Root servers
 - TTM
- Training and Education
- APNIC 29 Highlights
- Member Services
- Upcoming meetings

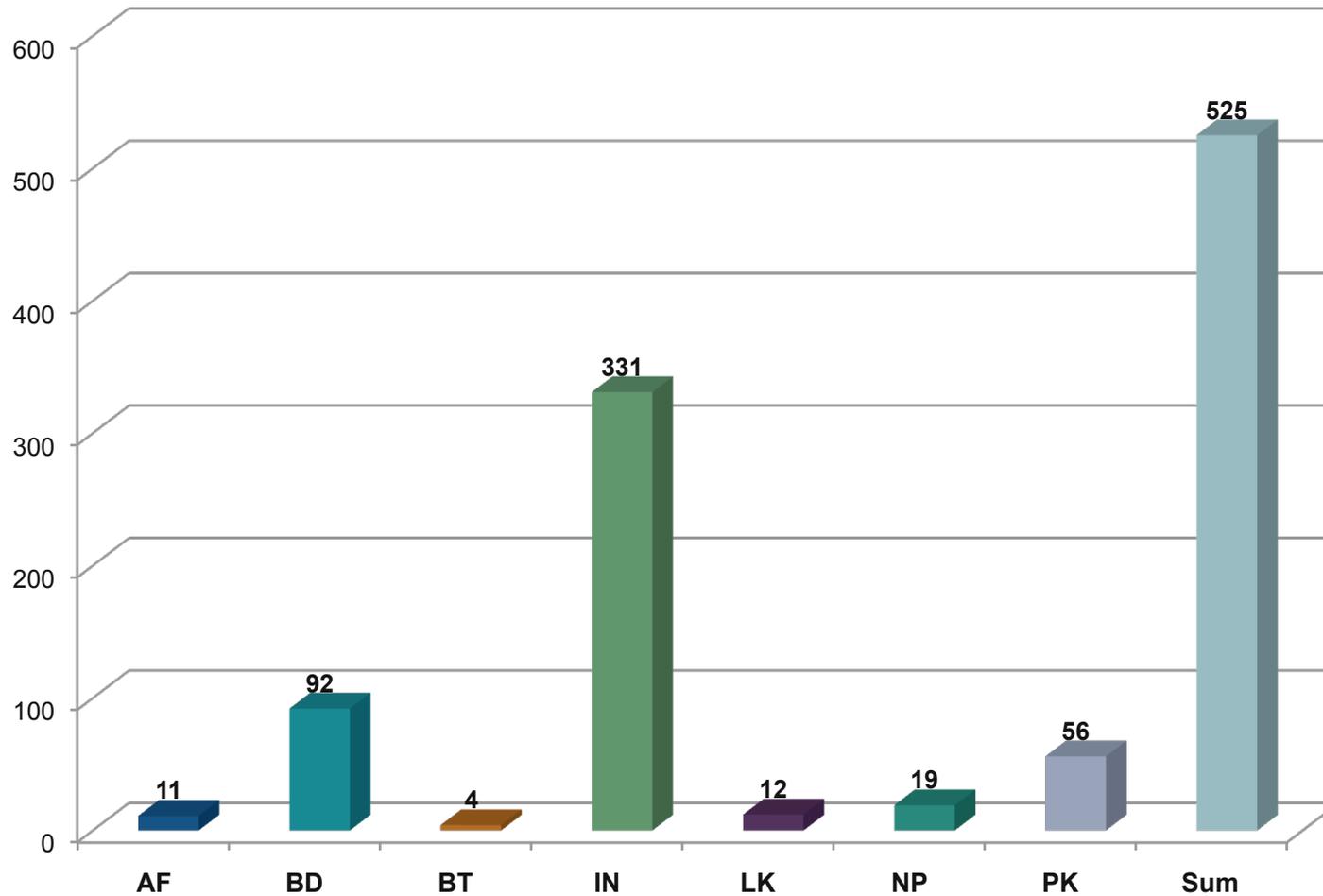
Membership



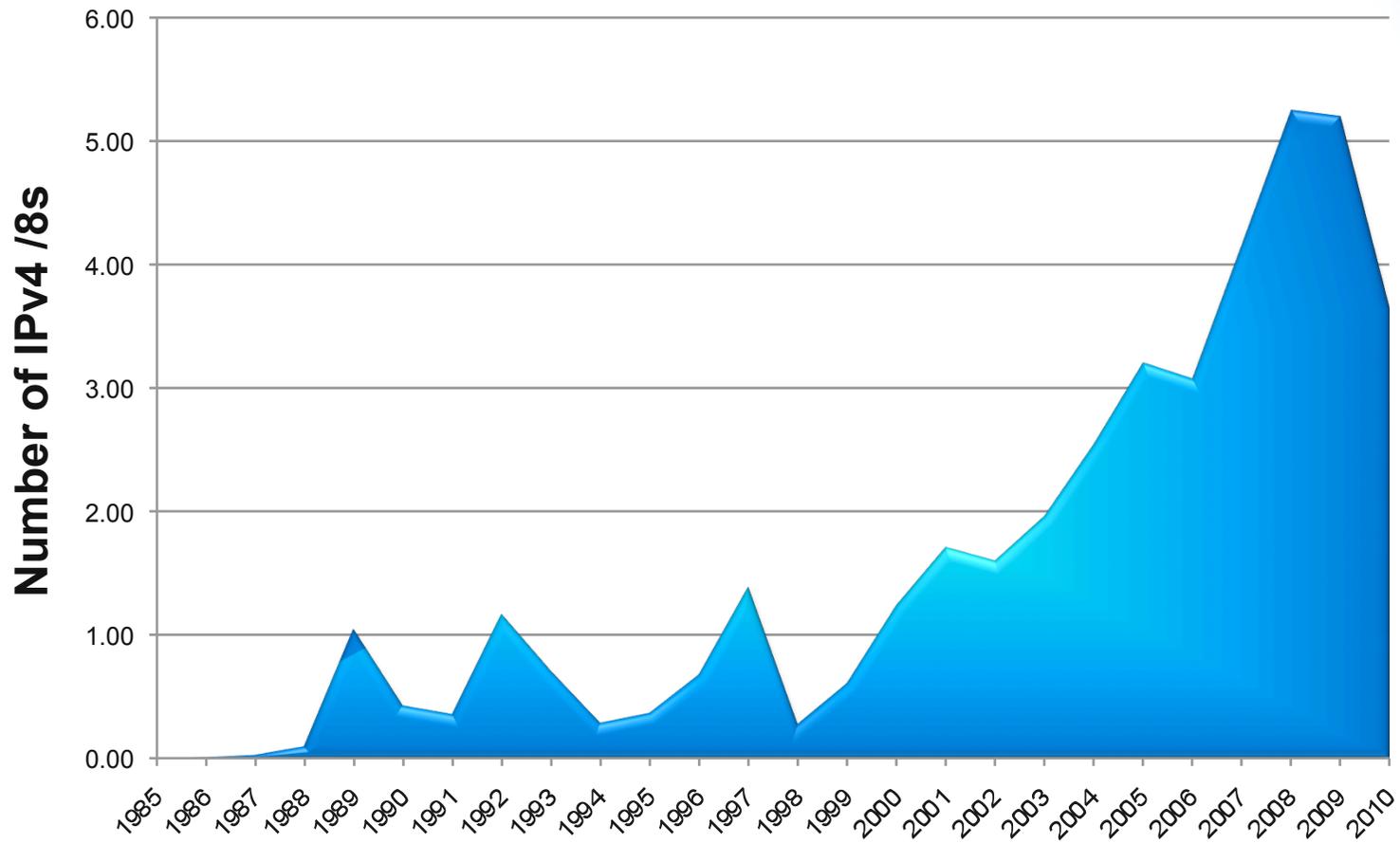
Total Members: 2,330

July 2010

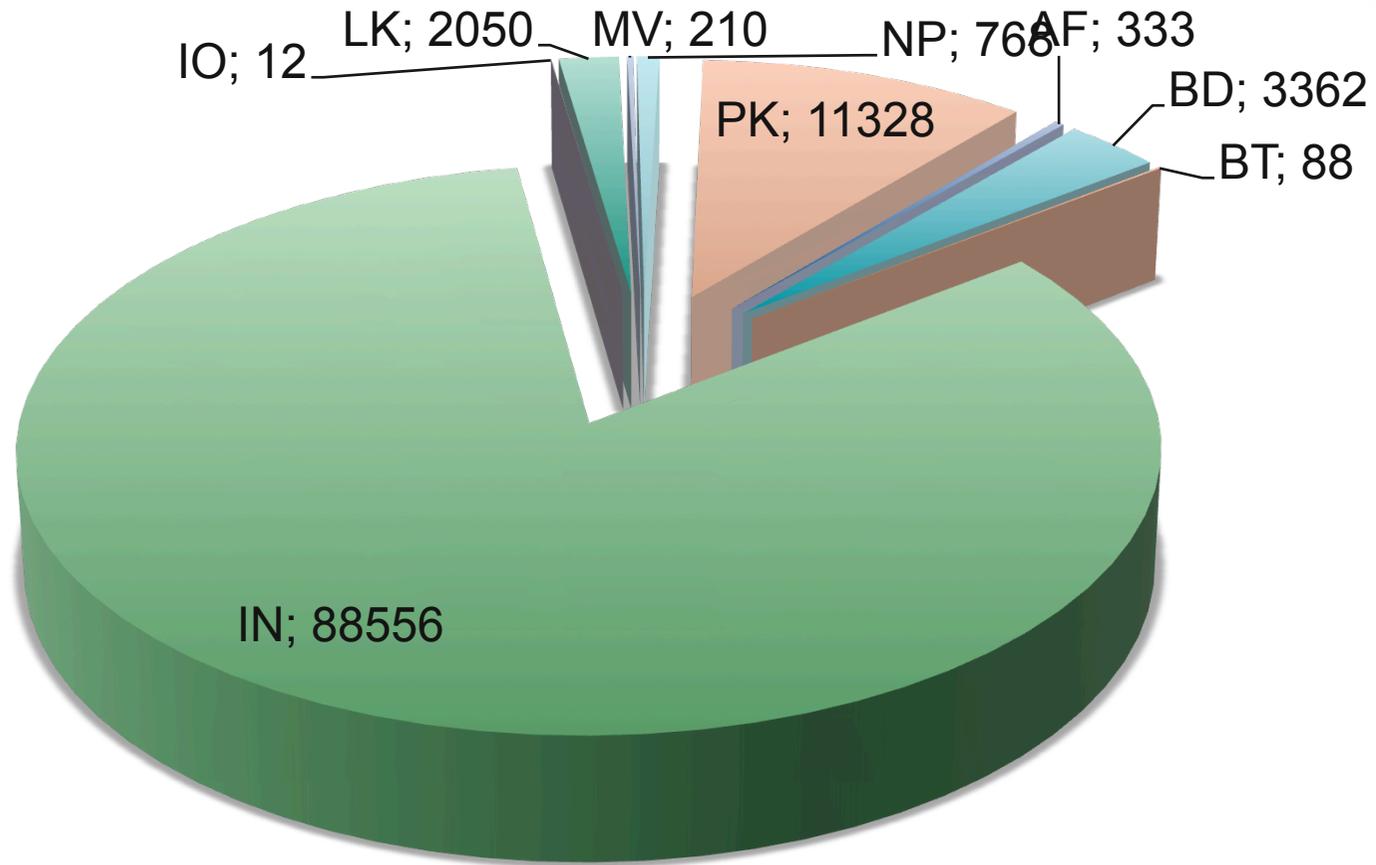
Members in South Asia



Total IPv4 Delegations in AP

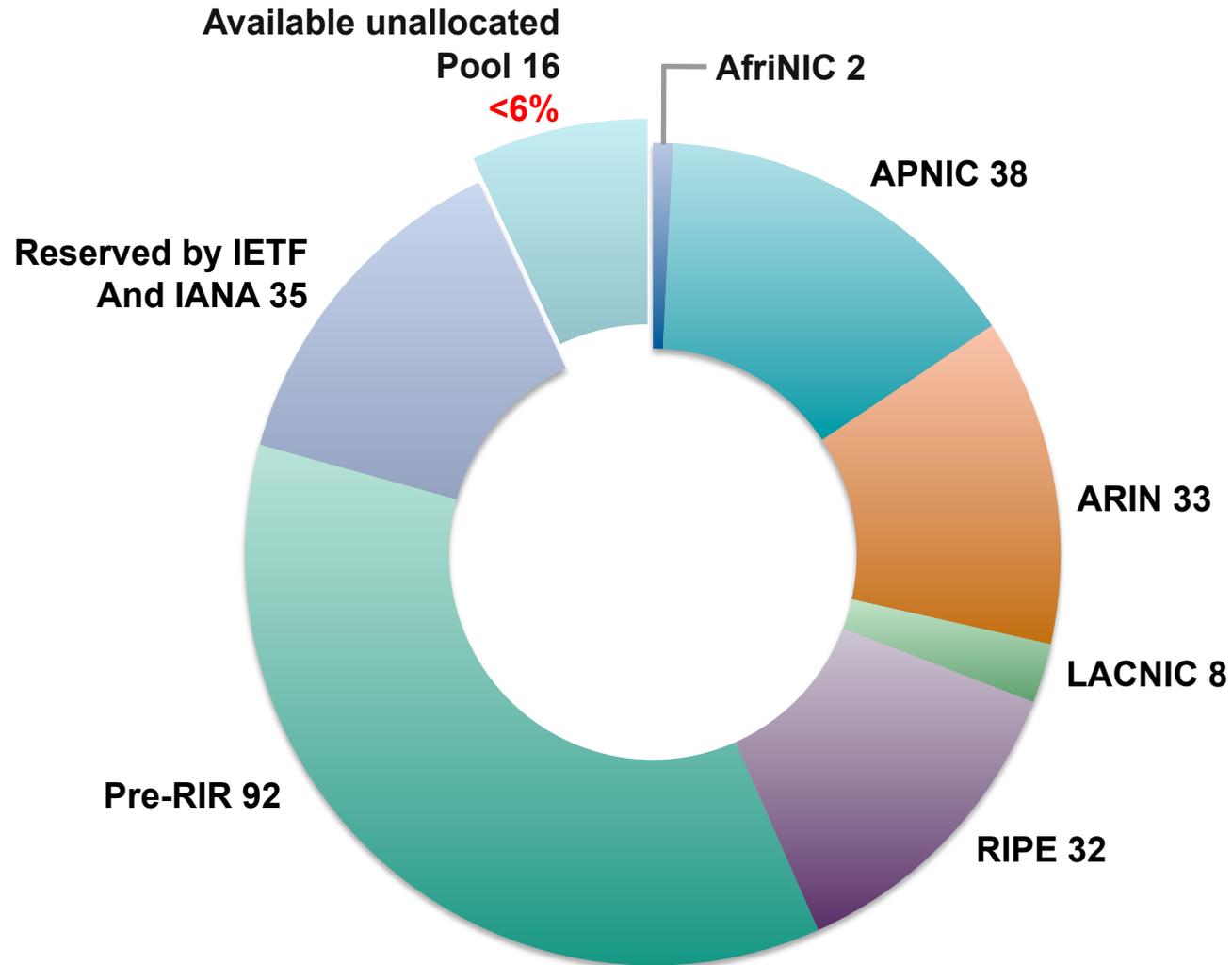


IPv4 Delegations to South Asia



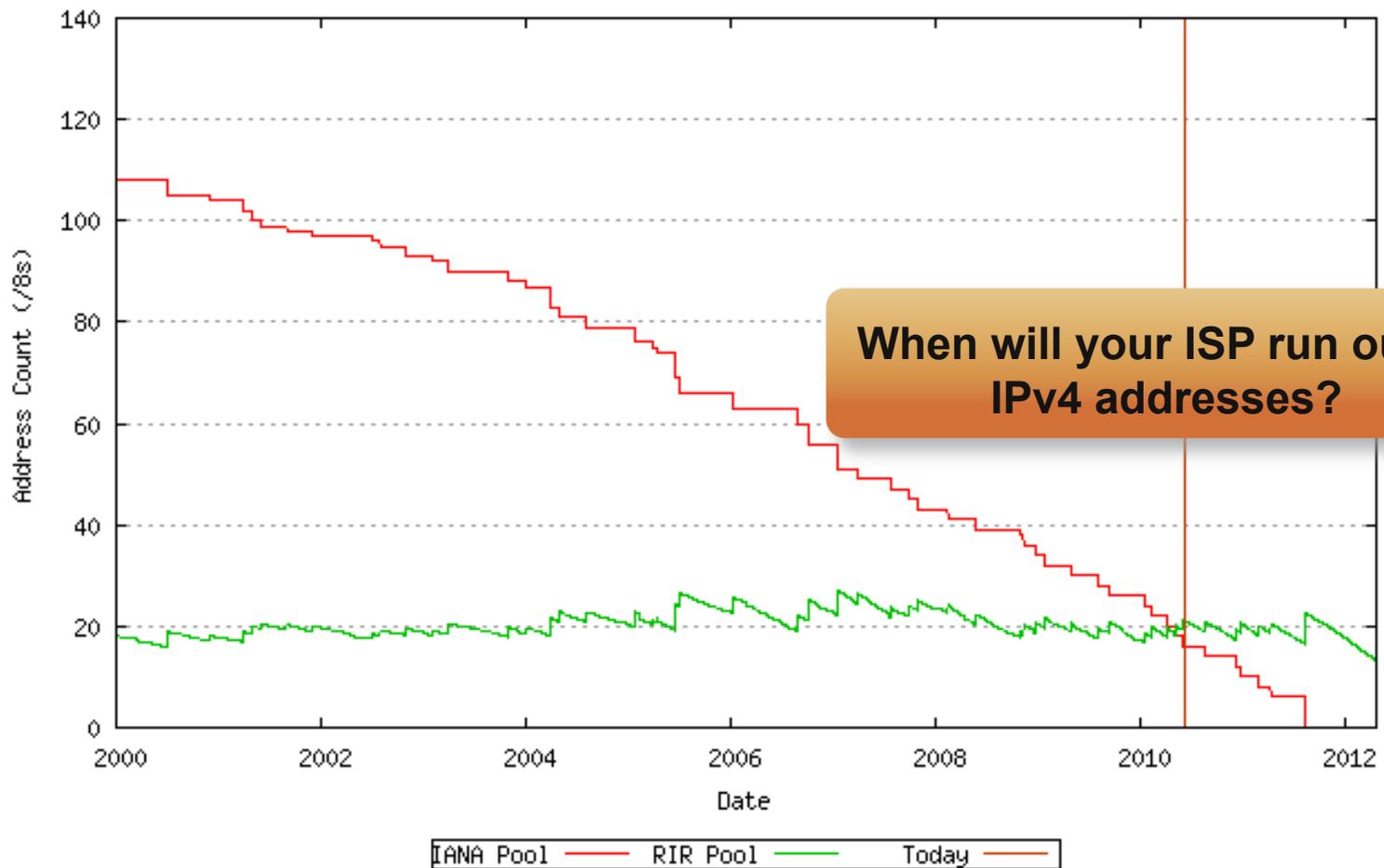
Number of IPv4 /24s

IPv4 Address Global Distribution

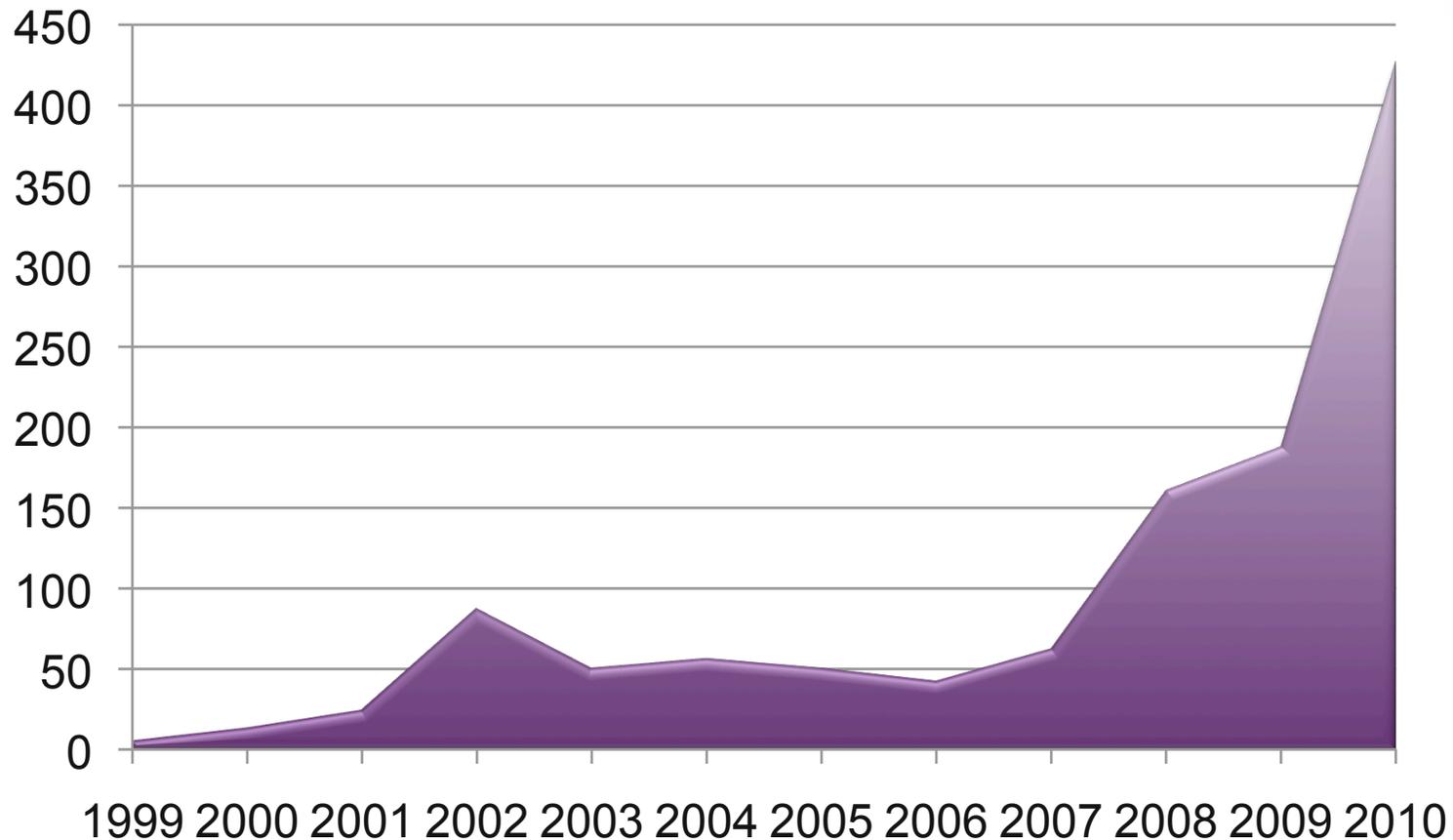




IPv4 Consumption: Projection

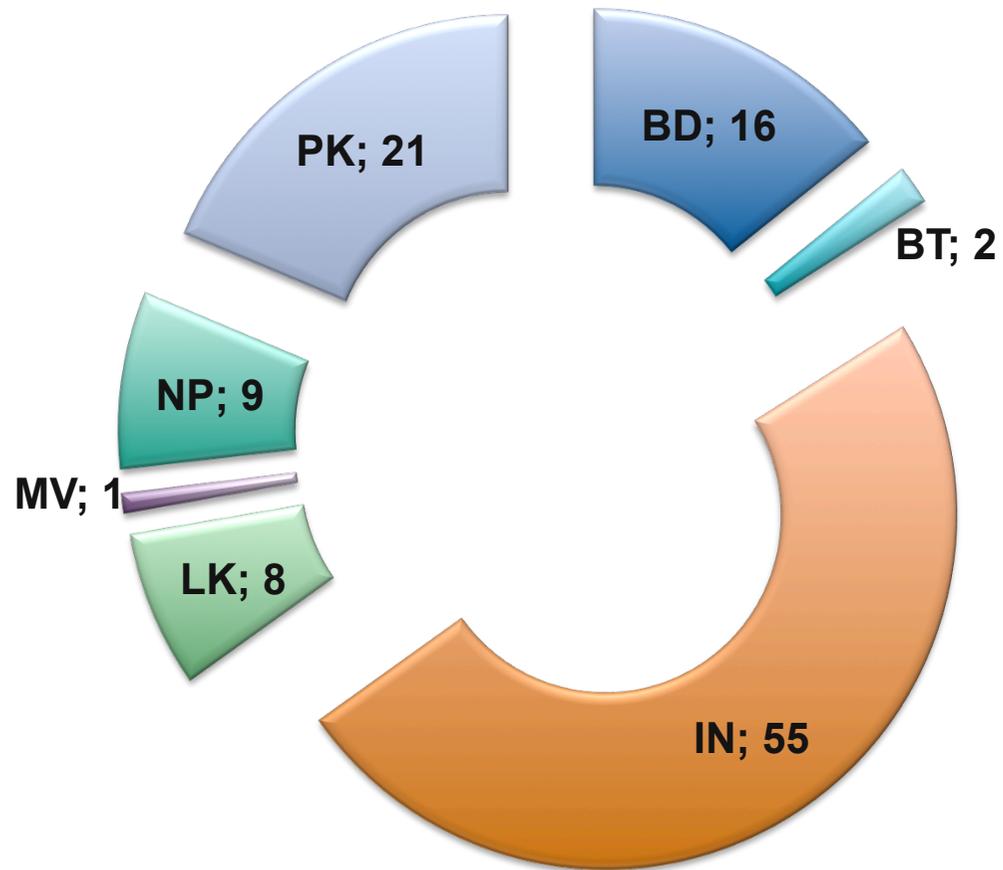


Total IPv6 Delegations in AP



prop-073: Simplifying allocation/assignment of IPv6 to APNIC members with existing IPv4 addresses - implemented on 10 February 2010

IPv6 Delegations to South Asia



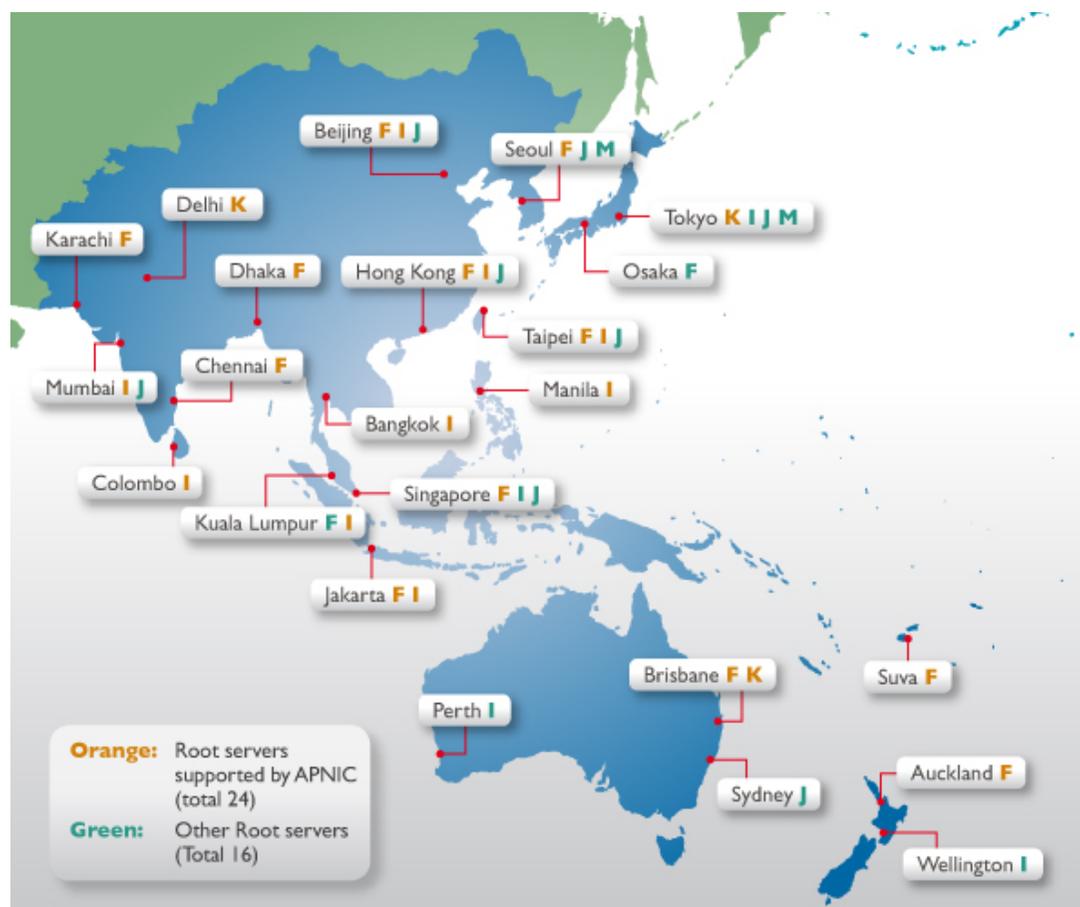
APNIC IPv6 Program

- 10% Media Campaign (with IANA)
 - Less than 7% IPv4 remaining
- Kickstart IPv6
 - Implemented 10 Feb 2010
 - Total allocations since Feb 2010
- 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

DNSSEC implementation

- Participating in a global project to help provide security to the Domain Name System
- Deploying a three-phase plan
- Phase 1
 - Successfully tested its DNSSEC Secure64 platform
- Phase 2
 - Signed all APNIC zones
 - <http://www.apnic.net/publications/news/2010/dnssec-signatures>
- Phase 3
 - Improvements to MyAPNIC
 - Allows Members to enable DNSSEC protection to their reverse zones
 - Service delivery will be announced soon!

Root Server Deployments

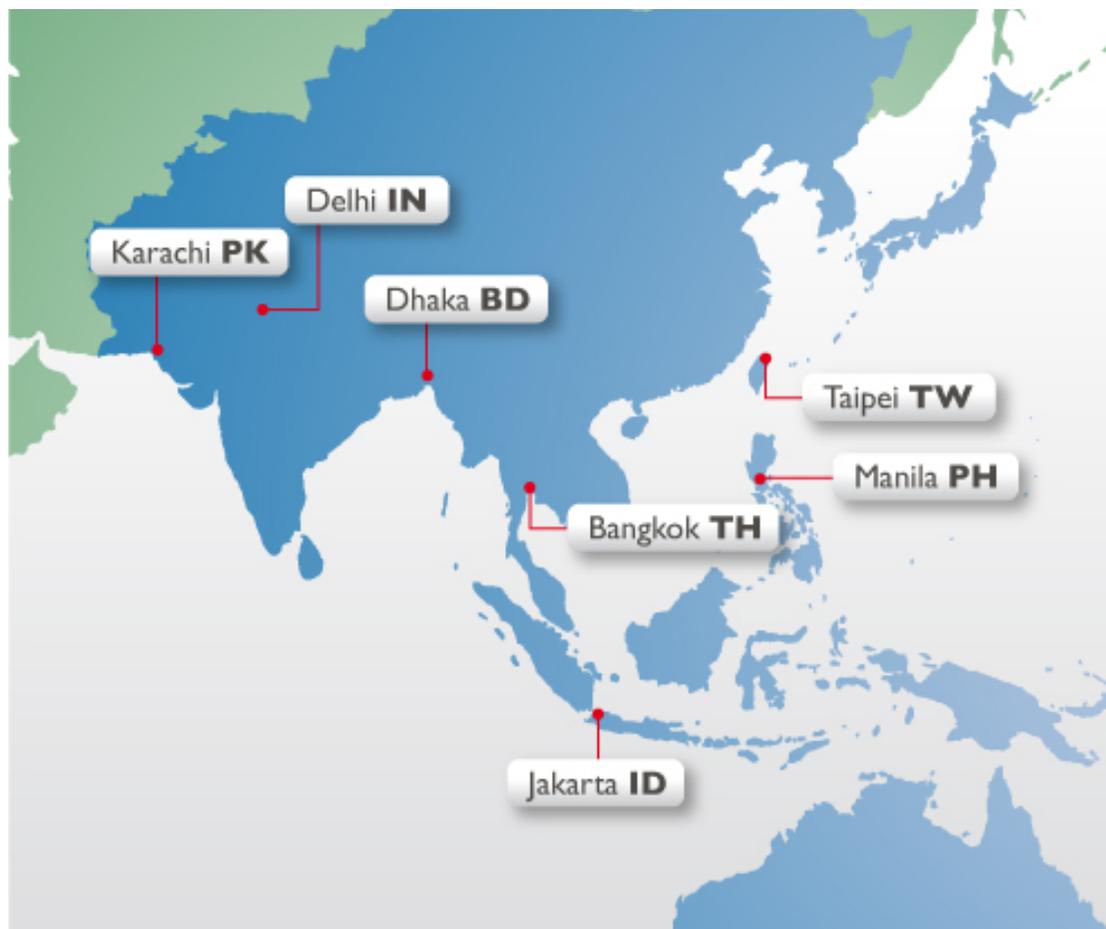


APNIC assists in deployment of these root servers providing technical support. These are either fully, or at least partially, funded by APNIC. These are then maintained by the operator, as 'anycast' mirror copies of existing root servers.

Test Traffic Measurement (TTM)

- Partnership with RIPE NCC
- Dedicated measurement devices consisting of a PC and GPS antenna
- Continuously monitors connectivity between host and rest of the Internet
- Test boxes constantly generate connectivity data
- Can be used for a variety of purposes
 - eg: Diagnosing problems that involve other networks, and more...

Current TTM Deployments



For more information

<http://www.apnic.net/community/support/ttm>

Training and Education - 2010

- Dhaka, BD - Internet Fundamentals, IPv6, IRM, & IRR (Jan)
- Kathmandu, NP - IRM, IRR, IPv6 (March)
- Karachi, PK - Basic IPv6 routing (April)
- Lahore, PK - Advance IPv6 routing (BGP) (April)
- Kolkata, IN - IRM & IPv6 (June)
- Colombo, LK - Basic IPv6 routing (June)
- Colombo, LK - Advance IPv6 routing (BGP) (July)
- Paro, BT - IPv6 Deployment, IRR & IRM (July)
- Upcoming E-learning sessions
 - 8 Sept – IRM
 - 10 Nov – IRM
 - 23 Sept – Routing
 - 24 Nov – IRR

APNIC 29 - Highlights

- Proposals reached consensus & implemented:
 - Prop-079: Abuse contact information (Nov 2010)
 - Prop-080: Removal of IPv4 prefix exchange policy
 - Prop-082: Removing aggregation criteria for IPv6 initial allocations
- Proposals returned to the mailing list for further discussion:
 - Prop-078: IPv6 deployment criteria for IPv4 final /8 delegations
 - Prop-081: Eligibility for assignments from the final /8
 - Prop-083: Alternative criteria for subsequent IPv6 allocations <http://www.apnic.net/community/policy/proposals>

APNIC 29 – Highlights...

- Community Consultation
 - collaboration with the NRO
 - Community to discuss the issues and ramifications of the ITU's possible entry into the IP address management arena
- Outcomes
 - Community reached consensus
 - Statement to the ITU IPv6 Group
 - Report from the session chair

<http://meetings.apnic.net/29/program/consultation>

MyAPNIC Updates

- Streamlined registration for Corporate Contacts
- Easy contact management
- Multiple accounts management
- Quick access to secured Online payment
- Simple Certificate application process
- New whois update via MyAPNIC (upcoming)



MyAPNIC

Streamlined Access

Corporate Contacts:

1. Register at <https://www.myapnic.net>
2. Confirmation via email
3. Logon

Non-corporate Contacts:

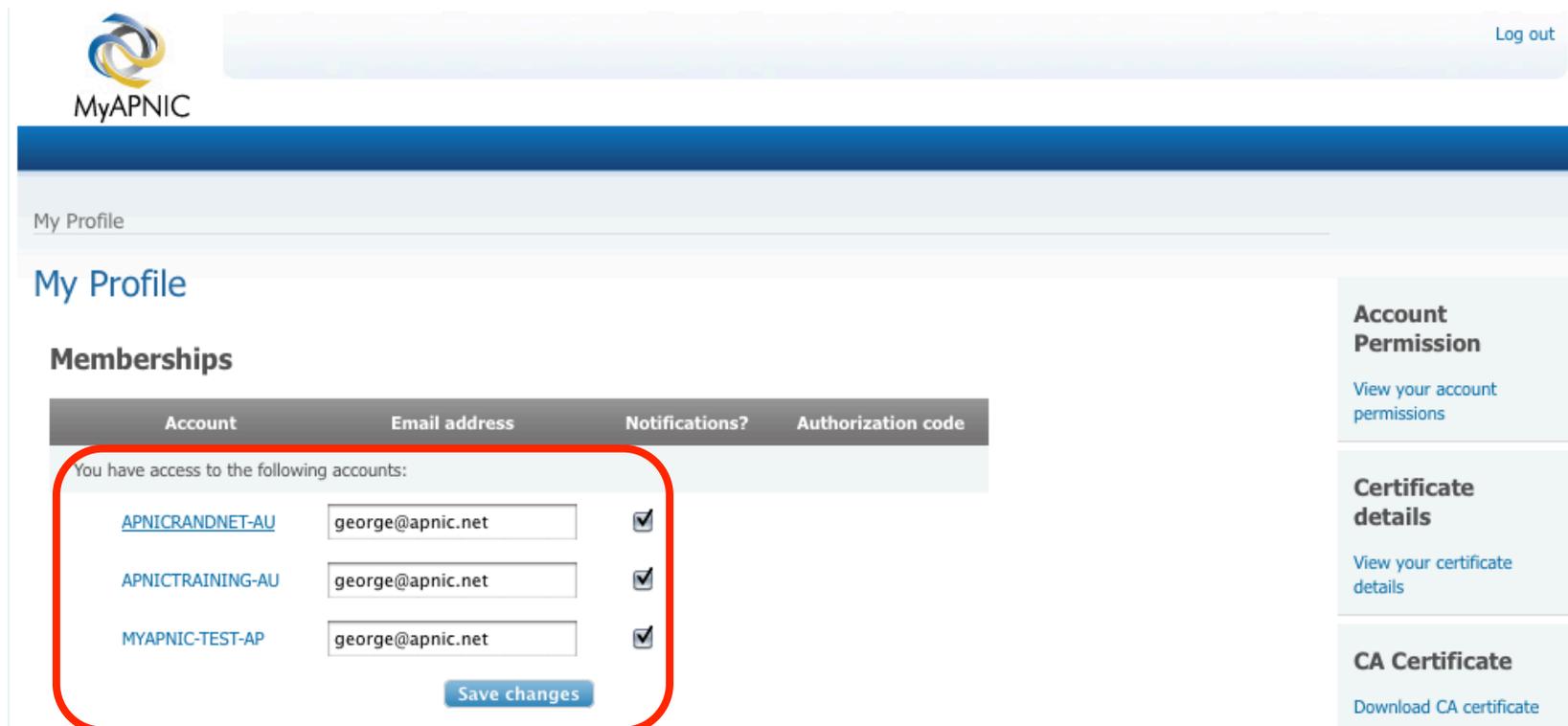
1. Register at <https://www.myapnic.net>
2. Obtained approval by a Corporate Contact
3. Logon

Contact Management

- Consolidated contact types and privileges
 - Corporate Contacts
 - Technical
 - Billing
- Corporate Contact can manage contact details without APNIC digital certificate

Multiple Account Management

- Manage with one login
- Quick access to different accounts



The screenshot displays the MyAPNIC user interface. At the top left is the MyAPNIC logo, and at the top right is a "Log out" link. The main content area is titled "My Profile" and contains a "Memberships" section. This section lists three accounts with their respective email addresses and notification preferences, all of which are checked. A "Save changes" button is located at the bottom of this list. To the right of the main content are three sidebar panels: "Account Permission" (with a link to "View your account permissions"), "Certificate details" (with a link to "View your certificate details"), and "CA Certificate" (with a link to "Download CA certificate").

MyAPNIC

Log out

My Profile

My Profile

Memberships

Account	Email address	Notifications?	Authorization code
APNICRANDNET-AU	<input type="text" value="george@apnic.net"/>	<input checked="" type="checkbox"/>	
APNICTRAINING-AU	<input type="text" value="george@apnic.net"/>	<input checked="" type="checkbox"/>	
MYAPNIC-TEST-AP	<input type="text" value="george@apnic.net"/>	<input checked="" type="checkbox"/>	

[Save changes](#)

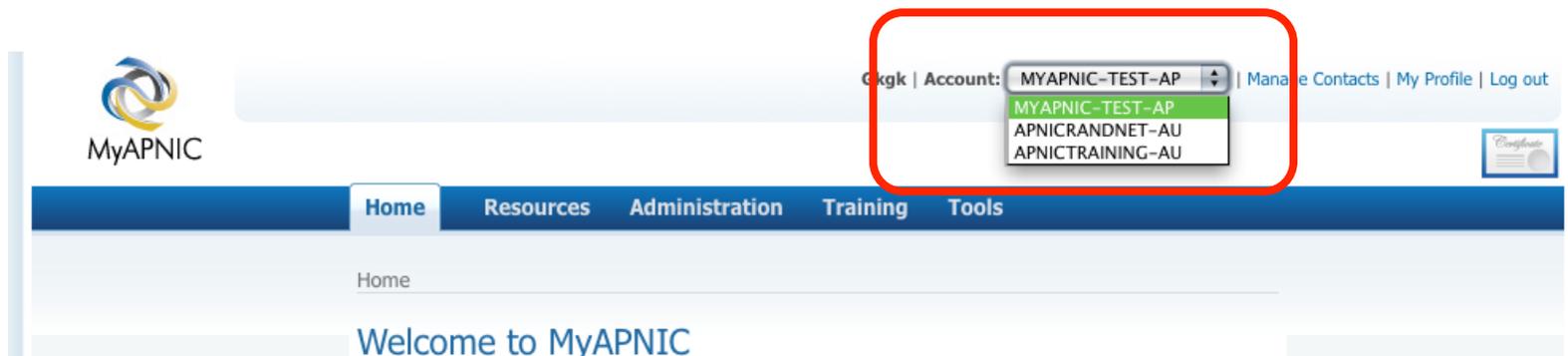
Account Permission
[View your account permissions](#)

Certificate details
[View your certificate details](#)

CA Certificate
[Download CA certificate](#)

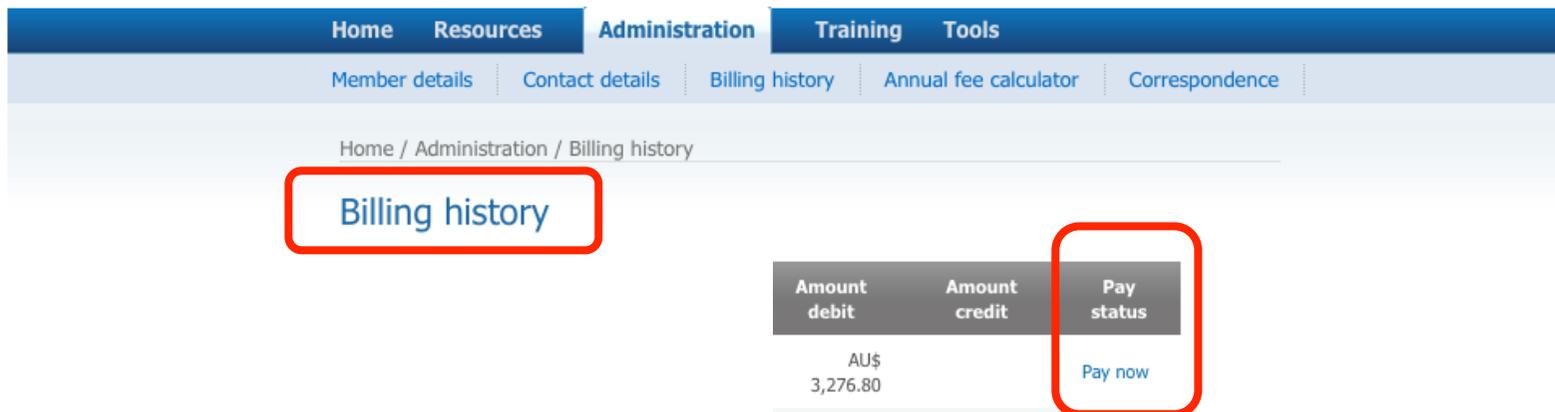
Quick Access to Accounts

- Drop down window for quick selections for moving between accounts



Online Payment

- One click to secured online payment via account administration
- Prefilled contact and invoice information



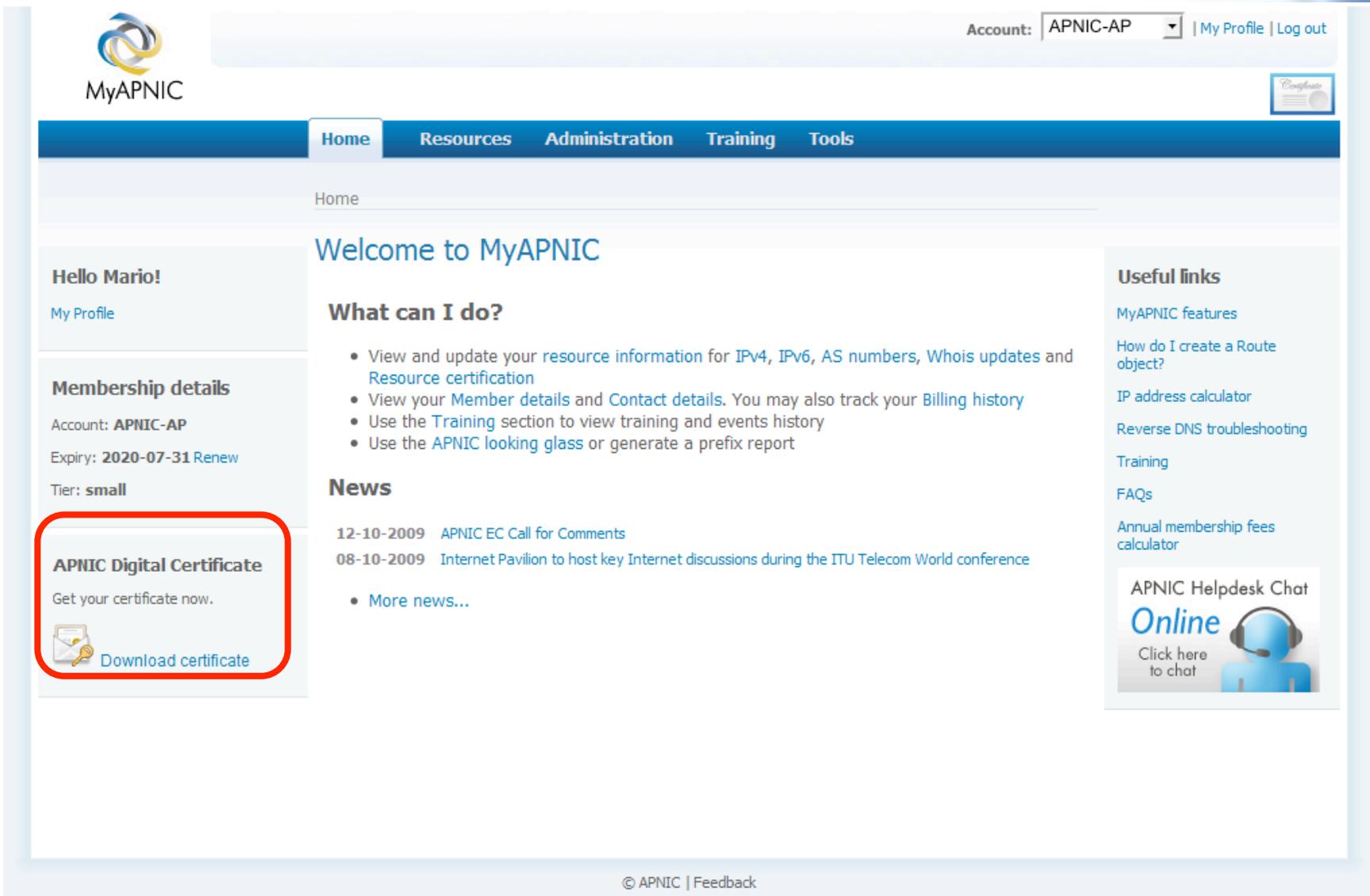
The screenshot displays the APNIC member administration interface. The navigation menu includes Home, Resources, Administration, Training, and Tools. The Administration menu is expanded, showing options for Member details, Contact details, Billing history, Annual fee calculator, and Correspondence. The current page is 'Billing history', as indicated by the breadcrumb 'Home / Administration / Billing history' and the highlighted 'Billing history' link. A table shows the following data:

Amount debit	Amount credit	Pay status
AU\$ 3,276.80		Pay now

APNIC Digital Certificates

- Certificates are ready immediately for download for Corporate Contacts upon initial login
- Certificates are ready immediately for download for non-Corporate Contacts upon approval by Corporate Contacts
- Automated renewal 30 days before certificates expire

APNIC Certificate Request



The screenshot shows the MyAPNIC website interface. At the top left is the MyAPNIC logo. At the top right, the user's account is identified as 'APNIC-AP' with links for 'My Profile' and 'Log out'. A navigation bar contains links for 'Home', 'Resources', 'Administration', 'Training', and 'Tools'. The main content area is titled 'Welcome to MyAPNIC' and includes a 'Hello Mario!' greeting with a 'My Profile' link. A 'Membership details' section shows the account name 'APNIC-AP', an expiry date of '2020-07-31', and a tier of 'small'. A red-bordered box highlights the 'APNIC Digital Certificate' section, which contains the text 'Get your certificate now.' and a 'Download certificate' link accompanied by a certificate icon. A 'What can I do?' section lists actions like updating resource information and viewing member details. A 'News' section lists recent updates from 2009. On the right, a 'Useful links' section provides various utility links, and an 'APNIC Helpdesk Chat Online' button is visible at the bottom right. The footer contains the copyright notice '© APNIC | Feedback'.

Whois Update

- Improved interface and documentation
 - Add, delete, and update
 - IRR object templates included
- Bulk updates
 - Update multiple object templates
 - Download existing whois object templates

User Feedback Welcome



New Helpdesk Hours



**Chat live with APNIC
Member Service Helpdesk!**

*Non-English language support
available by prior arrangement.

Email: helpdesk@apnic.net
VoIP: helpdesk@voip@apnic.net

09:00 – 21:00 UTC+10

Monday – Friday

Bahasa Indonesia

Bengali

Cantonese

English

Hindi

Mandarin

Tagalog

Thai

Upcoming APNIC Meeting



APNIC 30

24 - 27 August 2010, Gold Coast, Australia



- APNIC 30 Gold Coast, Australia
 - Call for Papers still open
 - Participate remotely via webcast, audio streaming, live transcripts.

<http://meeting.apnic.net/30>

Future APNIC Meetings

- **APNIC 31**
 - Hong Kong
 - 21 to 25 February
 - Jointly with APRICOT 2011 / 31st APAN
 - Fellowships will open around October 2010
- **APNIC 32**
 - Evaluating CFP
- **APNIC 33**
 - 22 February – 3 March
 - Delhi, India
 - Jointly with APRICOT 2012

Secretariat: New Location

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

[Google Map Location](#)



Kadincey

(Thank You)

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