

APNIC Update

Elly Tawhai

Senior Internet Resource Analyst/Liaison Officer, Pacific,
APNIC

PacNOG 16 2014 1 December 2014

APNIC

Issue Date:

Revision:



APNIC in 2014



Serving

Supporting

Collaborating

APNIC in 2014



Serving

Supporting

Collaborating

What is APNIC?

- Regional Internet Registry (RIR) for the Asia Pacific region
 - One of five RIRs currently operating around the world
 - Non-profit, membership organisation
- Industry self-regulatory body
 - Open
 - Consensus-based
 - Transparent
- Meetings and mailing lists
 - <http://meetings.apnic.net>
 - <http://www.apnic.net/mailing-lists>

Where is the APNIC Region?



APNIC



Ways to get IPv4 in the AP region

- Rationing APNIC's 'last block' of IPv4
- IPv4 address transfer
- Recycling returned IPv4 address space

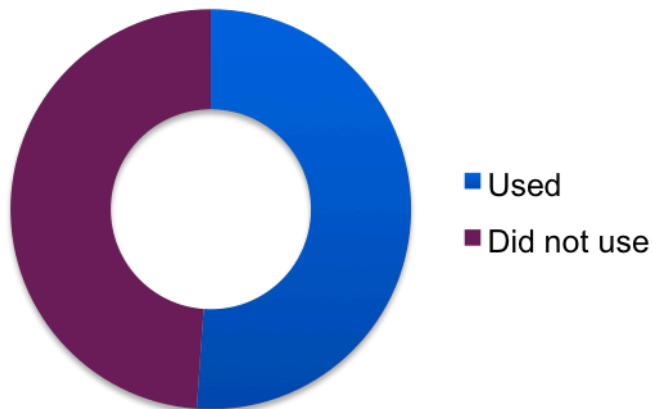
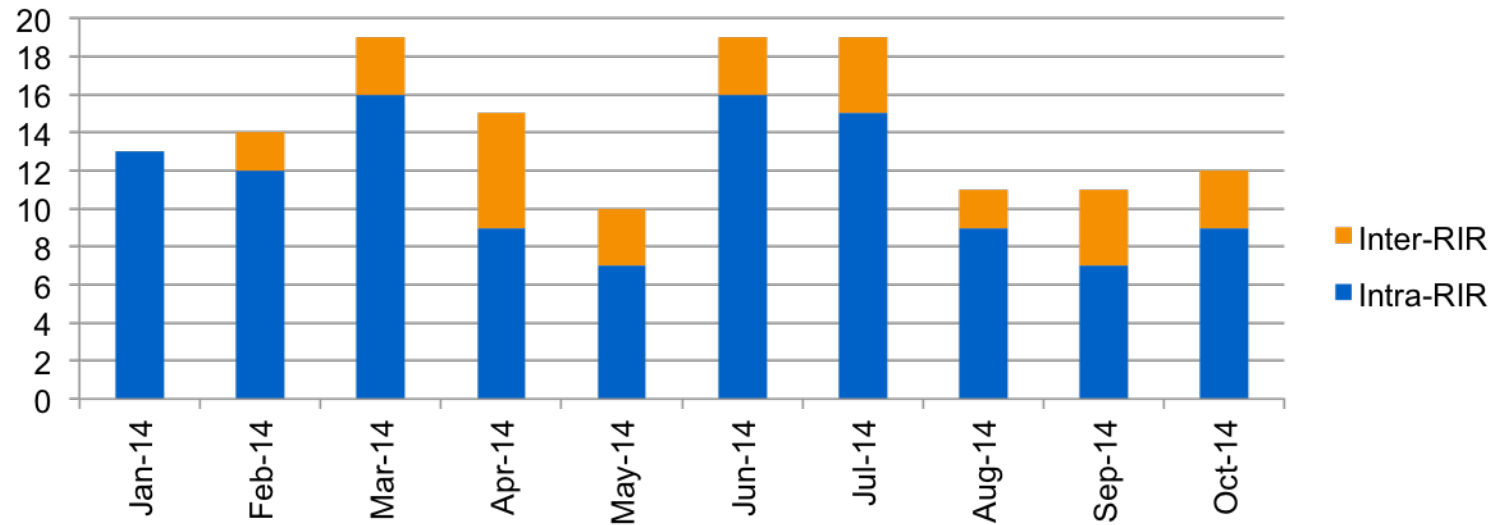
Rationing the 'last block'

- APNIC's last remaining block is 103.0.0.0/8
 - Equal to 16,777,216 addresses
- Each member can only get up to 1,024 addresses (/22)
- Allows new members to get a little bit of IPv4 before it completely runs out

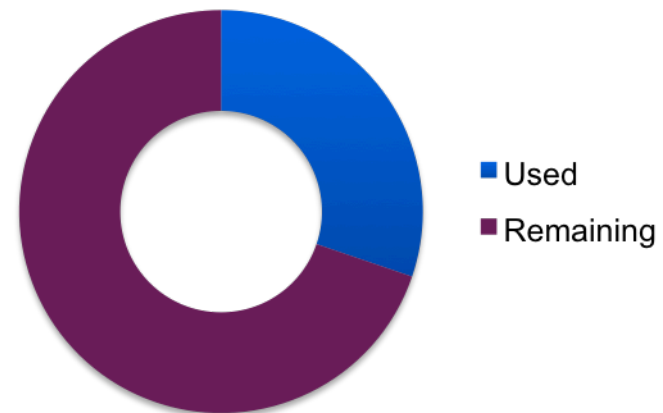
IPv4 address transfer

- Transfer is allowed through:
 - Merger & Acquisition
 - Needs based market transfer
- Needs based market transfer
 - The recipient (or buyer) must show evidence of need before a transfer can be registered by APNIC
 - Policy designed by the community to prevent hoarding

IPv4 transfers



Using listing service



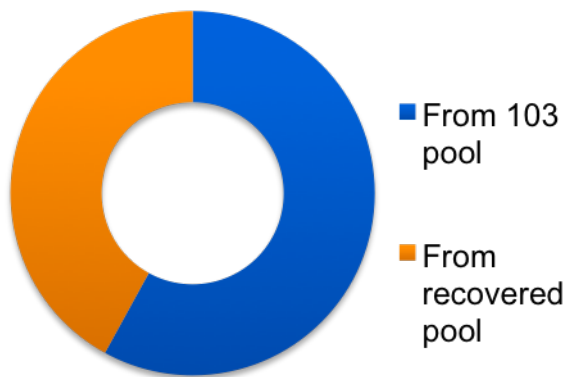
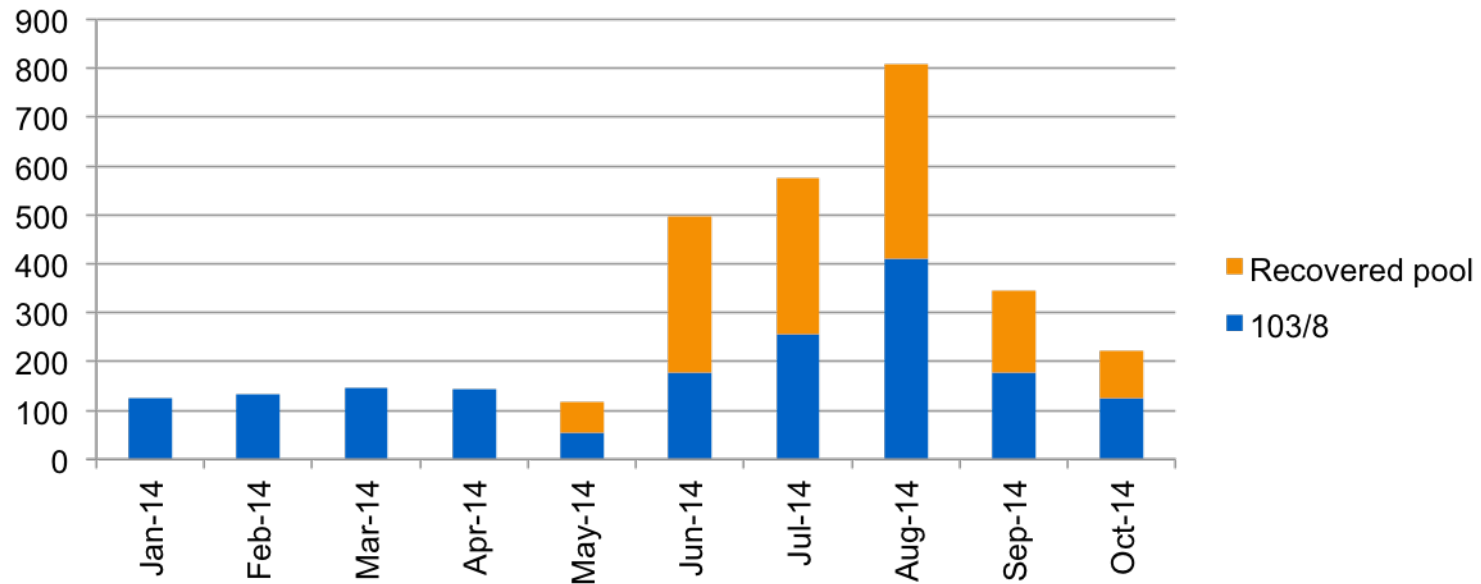
Pre-approval usage

Statistics as at 31 August

Recycling returned IPv4 address space

- Address space returned to IANA will be re-distributed equally to all 5 Regional Internet Registries
 - prop-105: Distribution of returned IPv4 address
 - implemented May 2014
- The re-distributed space received by APNIC is rationed like the 'last block'
 - A member can only get up to 1,024 addresses (/22) from recycled pool

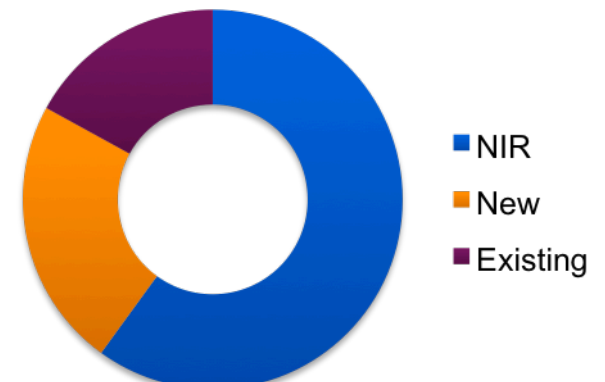
IPv4 delegations



By pool



By size



By Member

Statistics as at
31 October

IPv4 sourcing strategy in AP

- If needing a large number of IPv4 addresses, consider market transfer by following these steps:
 1. Get pre-approval from APNIC
 2. Find a source (seller or broker)
 - Check apnic-transfer@apnic.net mailing list
 3. Execute the transfer and register it at APNIC
- If needing just a small amount of IPv4 addresses for your corporate customer, consider signing them up as an APNIC member
 - Get up to 1,024 addresses (/22) from last block
 - And up to 1,024 addresses (/22) from recycled pool

MyAPNIC
((::)) :: (::)) :: (::)) :: (::))
APNIC

[Test](#) |
 [\[MYAPNIC-TEST-AP\]](#) |
 [Manage Contacts](#) |
 [My Profile](#) |
 [Log out](#) |
 Masquerading from user *elly* to user *NonCorporate.*

[Home](#)
[Resources](#)
[Administration](#)
[Events](#)
[Tools](#)

[Home](#)

Welcome to MyAPNIC

Hello Test!

[My Profile](#)

[Manage Contacts](#)

Membership details

Account: **MYAPNIC-TEST-AP**

Expiry: **2020-02-28** [Renew](#)

Tier: **very small**

APNIC Digital Certificate

Get your certificate now.



Call for nominations to the APNIC Executive Council now open

(2014-01-06)

Nominations for the APNIC EC election is now open until 10 February 2014. To nominate, please use the online nomination [form](#). Three positions on the APNIC Executive Council (EC) will be opened for election at APNIC 37 in Bangkok on Friday, 28 February 2014.

Use MyAPNIC to

- Complete a [referral application](#) for a customer. [Read more.](#)
- View your [resource information](#) for IPv4, IPv6 and AS numbers
- Register for APNIC training or Conference via the "Events" tab
- Manage and update your resources with [Whois updates](#)
- View your [Member details](#) and [Contact details](#)

News

28-01-2014 APNIC Executive Council unanimously supports Montevideo Statement

Useful links

[Using MyAPNIC](#)

[IRT object guide](#)

[IP address calculator](#)

[Reverse DNS troubleshooting](#)

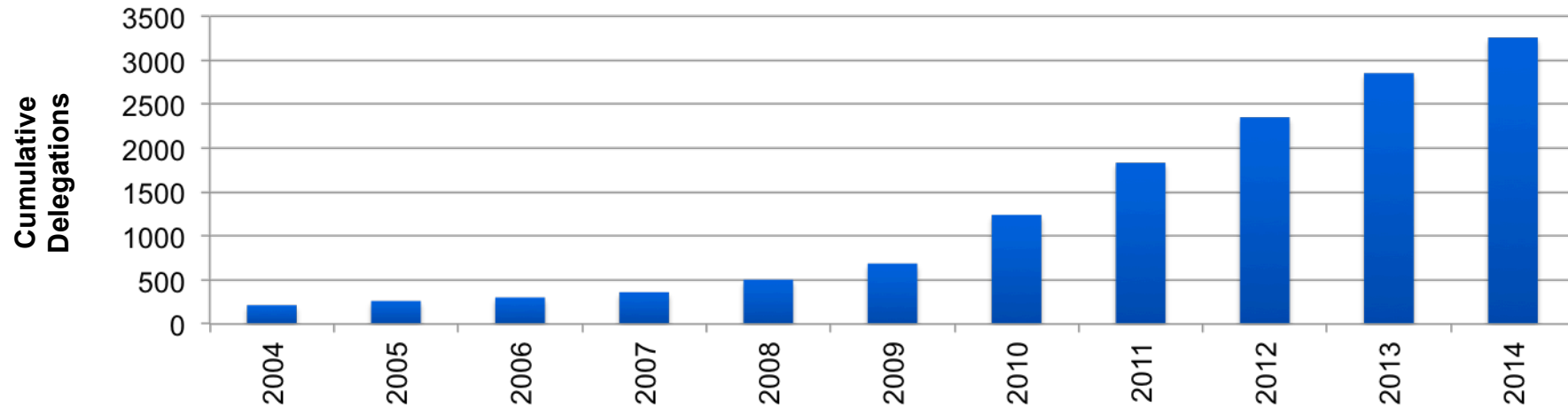
[Training](#)

[How to create a Route object?](#)

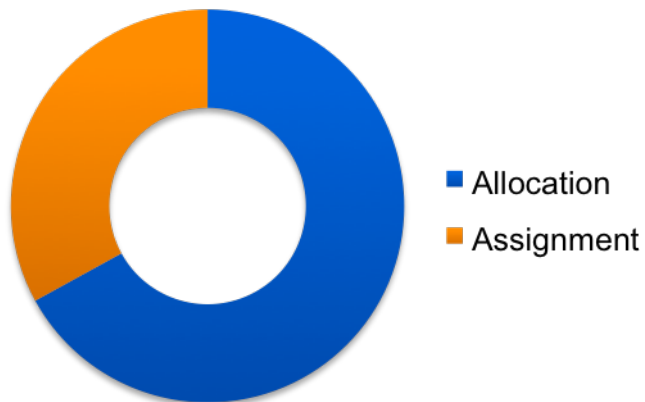
[Annual membership fees calculator](#)

[Click for Live Support](#)

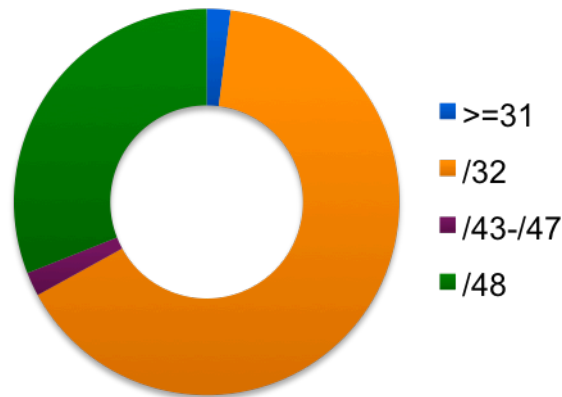
IPv6 delegations



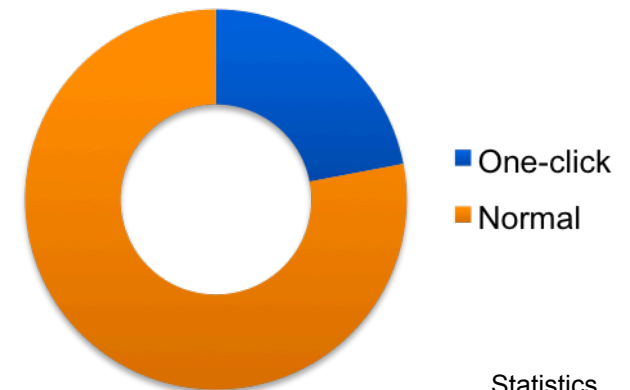
In 2014



By delegation type



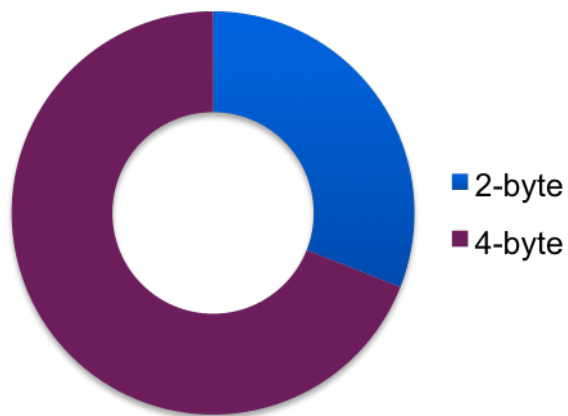
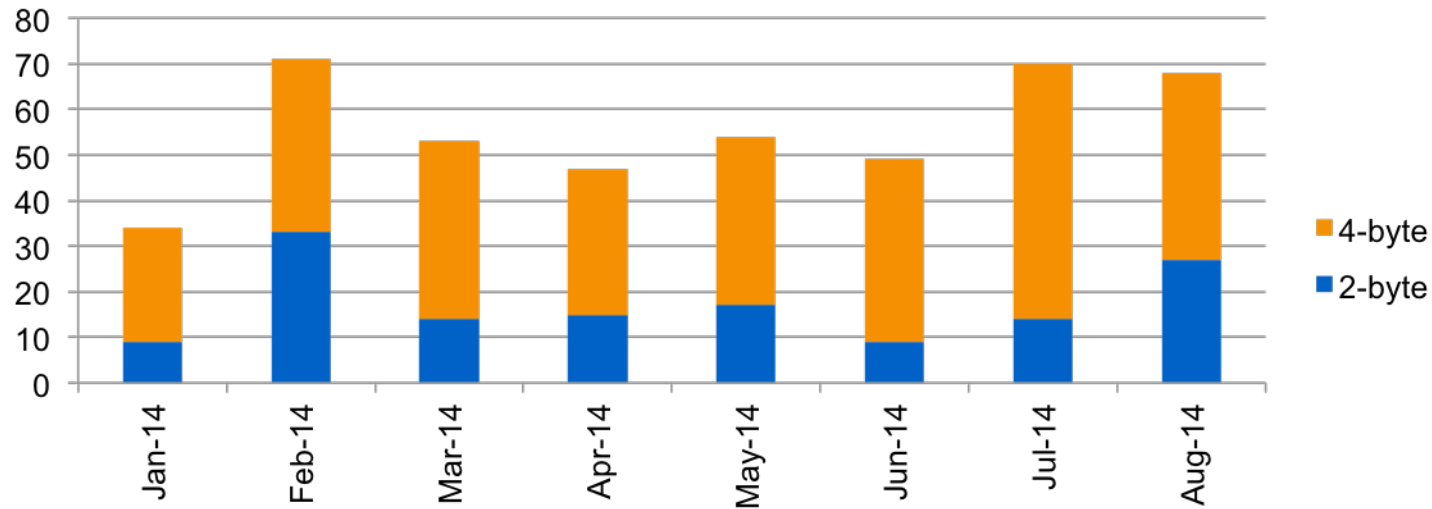
By size



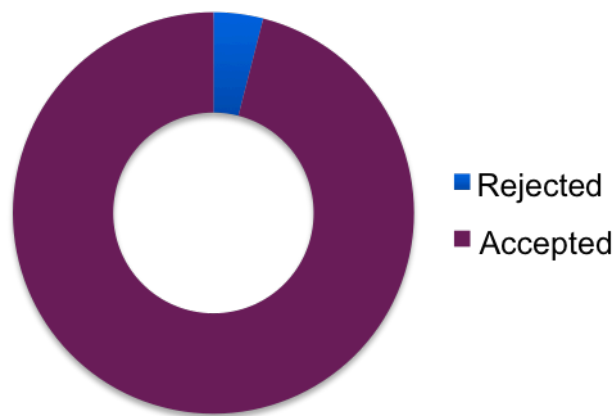
By request type

Statistics
as at 31
October

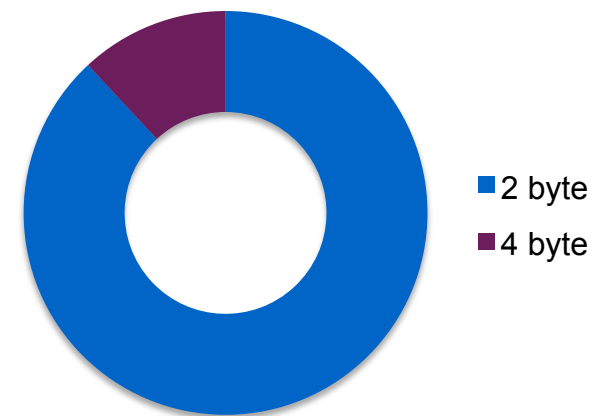
ASN assignments



By type



4-byte return rate



Global ASN use

Statistics as at
31 August

Whois Development

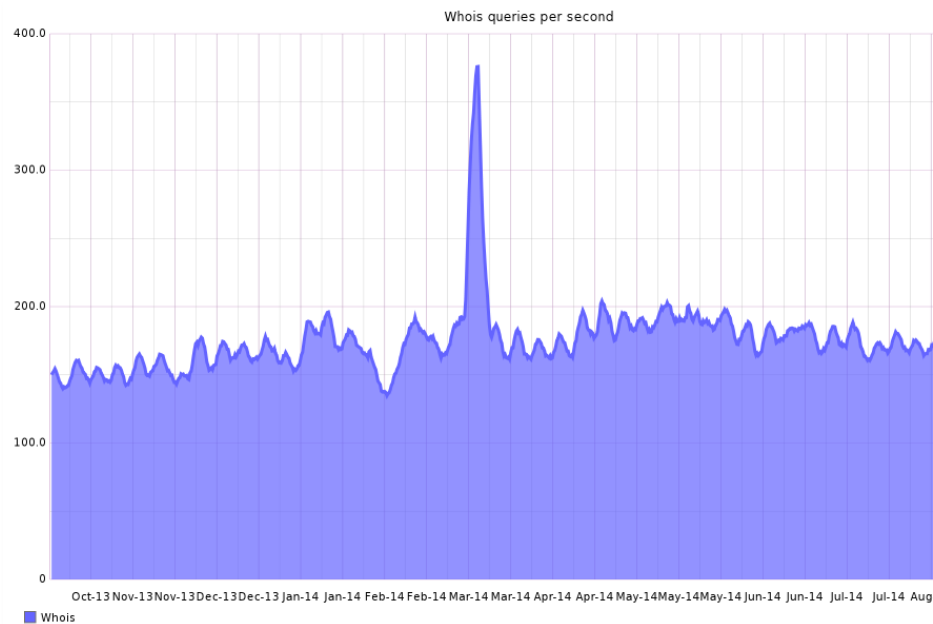
Collaborative project with RIPE NCC and AFRINIC on adapting RIPE Whois

Lowers overall development and maintenance costs for Whois

Improves quality control = a better experience for Whois users



Whois Stats



APNIC Whois servers answer 175 queries per second

(17% increase on 2013's 150 queries per second)

87% of Members have created their IRT contacts (June 2014)

APNIC in 2014



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APNIC Training

Courses

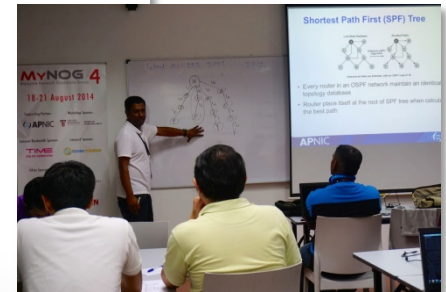
18 Classroom
24 Online

Professionals

1,921 trained

Video archives

63 videos
159,902 views



Statistics as at 31
October

APNIC



Community Development



Technical Assistance
Projects in Bhutan,
Laos, Tuvalu, Vanuatu

MoU with ICANN for
L-root servers in the
Asia Pacific

33 Fellowships
supported for APRICOT
2014 & APNIC 38

New Youth Fellowship
Program for APNIC 38 –
2 Fellows



Security Outreach



Participation in NOGs, CERTs and LEA events to educate and learn

Training for Pacific LEAs held in Auckland

Promoting emerging security initiatives among Members



APNIC Labs

Research statistics and evidence to help the APNIC community make more informed technical decisions

IPv4

IPv6

DNS

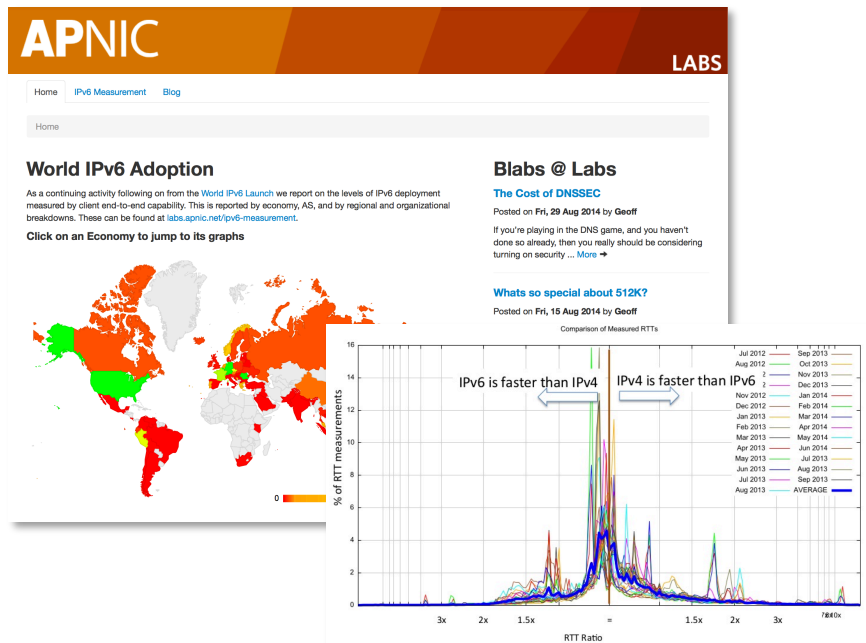
BGP

2014

Creating a unified data access platform for all measurements

Continuous improvement of IPv6 and DNS measurements

- Name collision
- PMTU
- RTT
- NAT & CGN



APNIC



ISIF Asia Awards and Grants



Supporting technical innovation
for socio-economic development
in the Asia Pacific

isif  **asia**

Awards

5 from 93
applications

Grants

12 from 139
applications

Economies

Cook Islands, Kiribati, New Zealand, Tuvalu, India,
Australia/Indonesia, Thailand, Malaysia, Micronesia,
Vietnam, Cambodia, Bangladesh, Philippines, Vanuatu

APNIC in 2014



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APNIC Survey 2014

Focus Groups held in 17 economies

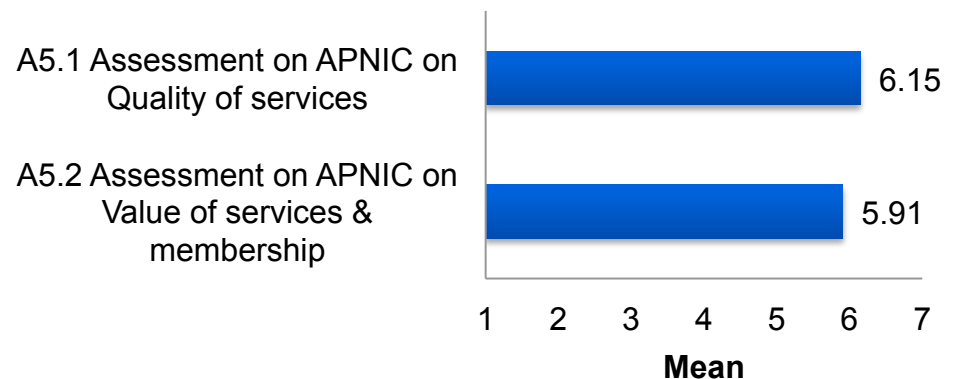
1,039 Survey responses – thank you!

Responses from 56 economies

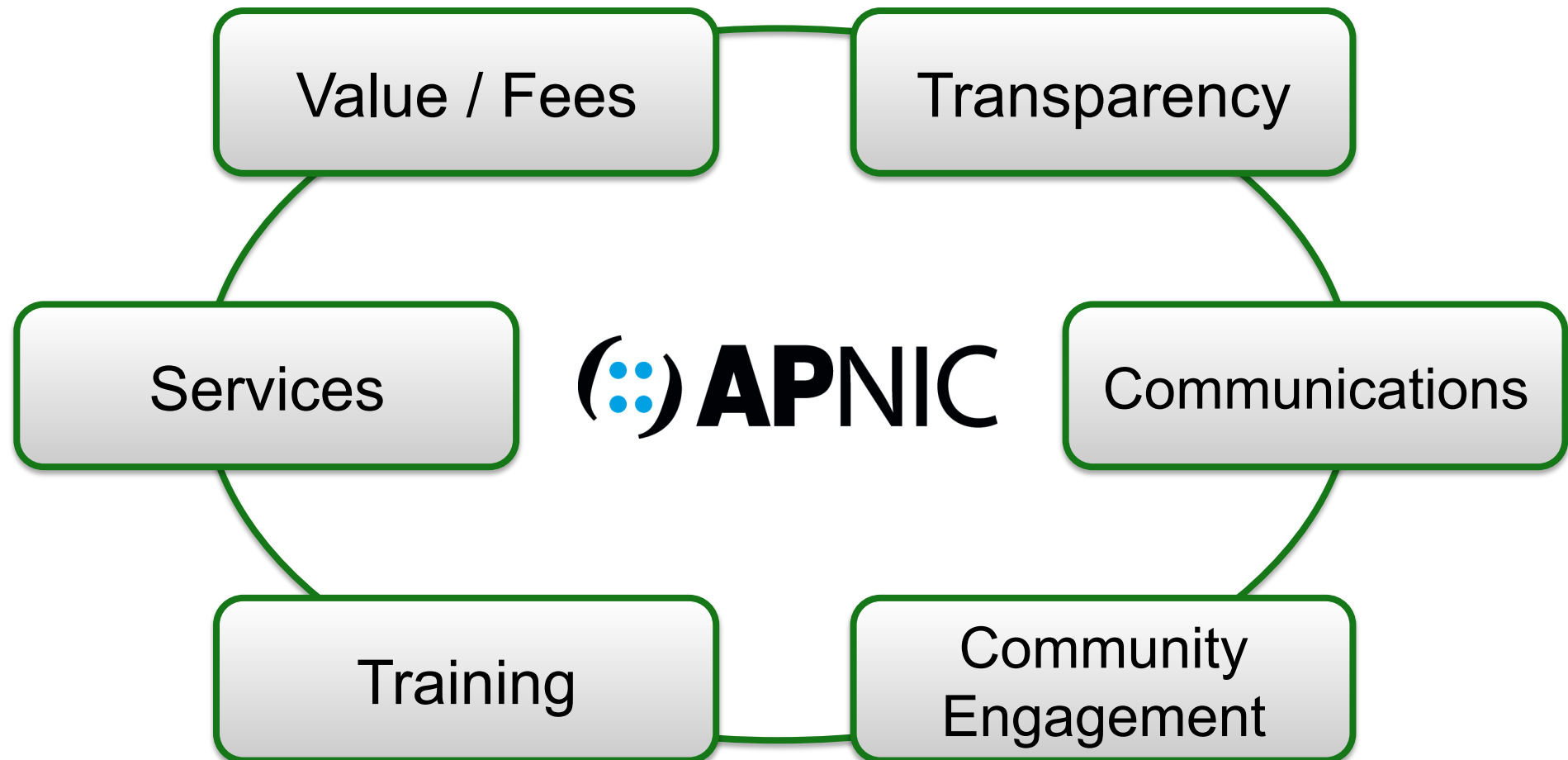
Reports available:
www.apnic.net/survey

 THE SINGAPORE INTERNET RESEARCH CENTRE

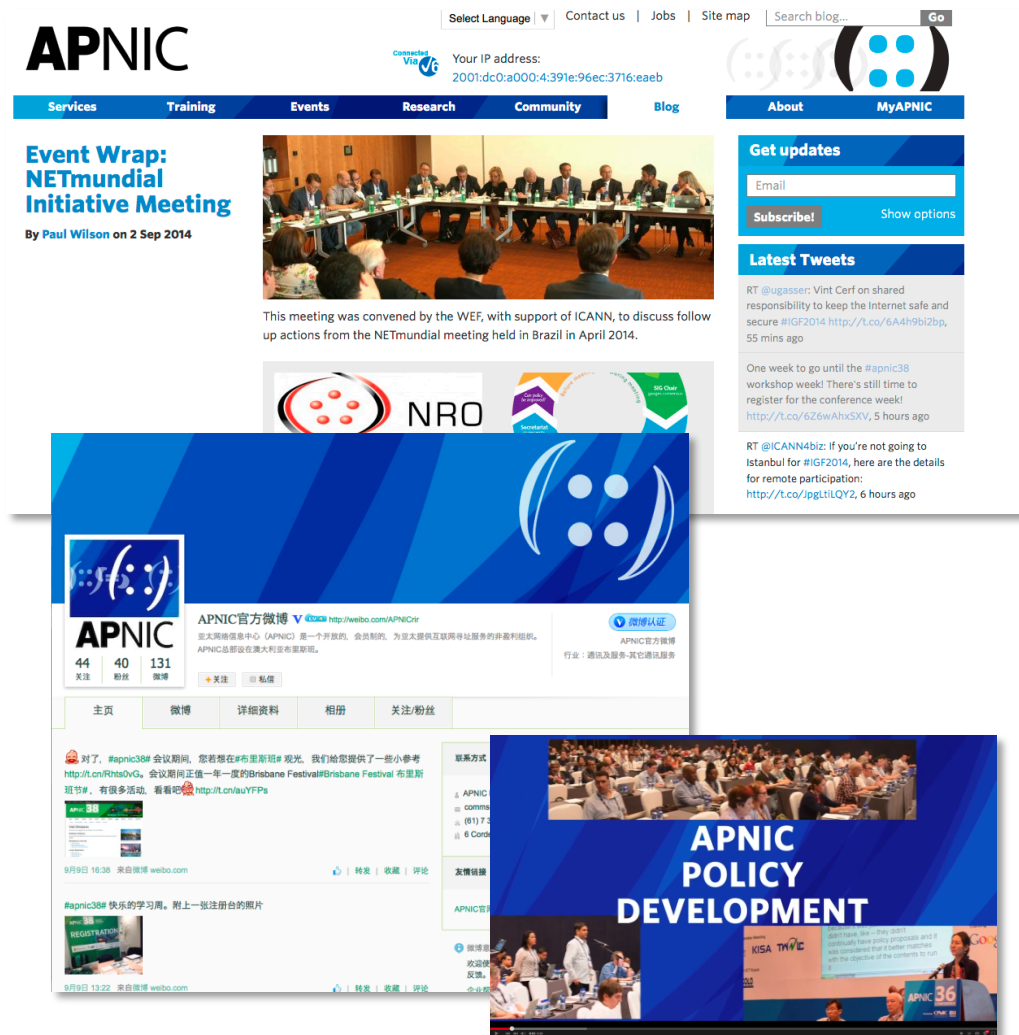
Assessment of APNIC performance in general



Survey + Focus Group Themes



Improving Communication



Our goal: Provide clear information where you want to read it

New APNIC Blog – more relaxed language, richer content, community participation

‘Event wraps’ for clear reporting of APNIC event activities

More active social media + APNIC is now on Weibo!

Updated APNIC background videos

Website refresh – more to come!

You're Invited!



APRICOT 2015: Fukuoka, Japan,
24 Feb-6 Mar 2015

2015.apricot.net

APNIC



THANK YOU



www.facebook.com/APNIC



www.twitter.com/apnic



www.youtube.com/apnicmultimedia



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