Overview

Serving Members in 2014

Services Roadmap

Trends and observations

What’s new?

APNIC’s Vision: “A global, open, stable, and secure Internet that serves the entire Asia Pacific community”
IPv6 Delegations

In 2014

By delegation type
- Allocation
- Assignment

By size
- /30-/31
- /32
- /43-/47
- /48

By request type
- One-click
- Normal

As at 31 August
IPv4 Delegations

By pool
- From 103 pool
- From recovered pool

By size
- /24
- /23
- /22

By Member
- NIR
- New
- Existing

As at 31 December
ASN Assignments

By type
- 2-byte
- 4-byte

4-byte return rate
- Rejected
- Accepted

Global ASN use
- 2-byte
- 4-byte

As at 31 December
IPv4 Transfers

As at 31 December
APNIC Membership

As at 31 December
APNIC Membership in South Asia

- Bangladesh: 197
- Bhutan: 14
- India: 399
- Maldives: 4
- Nepal: 30
- Pakistan: 5
- Sri Lanka: 82

Legend:
- Blue: Bangladesh
- Orange: Bhutan
- Purple: India
- Green: Maldives
- Red: Nepal
- Yellow: Pakistan
- Grey: Sri Lanka
Service Improvements

- New VOIP system
- New Member welcome calls
- MyAPNIC
- Security
- Live MyAPNIC demos
- ROA sessions
Services Roadmap

- Instant Feedback System
- Easier Invalid Contact Reporting
- Easier Access to MyAPNIC
- MyAPNIC 2-Factor Authentication
- Faster Contact Updates

- Improve Transfer Information
- Maintainer Management in MyAPNIC
- Additional option to make payment
- More New Training Courses

4th Q 2014 → 1st Q 2015
Instant Feedback
Faster contact update

IPv4 assignments within/covering 1.1.1.0/24

Parent records

<table>
<thead>
<tr>
<th>Network name</th>
<th>Start IP</th>
<th>End IP</th>
<th>Maintained by</th>
<th>Changed</th>
</tr>
</thead>
<tbody>
<tr>
<td>APNIC-LABS</td>
<td>1.1.1.0</td>
<td>1.1.1.255</td>
<td>APNIC-HM</td>
<td><a href="mailto:hm-changed@apnic.net">hm-changed@apnic.net</a> 20140512</td>
</tr>
</tbody>
</table>

Public records (shown in whois.apnic.net)

Private records
Trends and Observations

• Geolocation issues affecting Members
  - Incorrect geolocation information
  - No geolocation information

• Accuracy of contacts in whois database
  - Invalid contacts registered in Whois database
  - Handling network abuse complaints

- Ensure your APNIC whois registration is current
- Update your IP information in third party GEOIP databases such as MaxMind, IP2 location

- Improved invalid contact reporting
- Educating members
- IRT objects
- Review procedures
2015 Fee schedule

What is the new fee schedule?

The revised fee schedule aims to provide the greatest benefit to the majority of Members, with smaller and new Members receiving sizable discounts.
What are the changes

• IP resource application fee (AUD 1750) replaced by “Sign-up” fee (AUD 500)
• New Members receiving IP will start as tiered Members and not Associate Member
• Formula bit factor increases from 1.30 to 1.308
• Membership reactivation fee reduced from AUD 2700 to AUD 1000
2015 Fee schedule

Initial Fee Comparison for /24

Old Fee

New Fee

36% Reduction
2015 Fee schedule

Renewal Fee Comparison for /24

Old Fee

New Fee

11% Reduction
You’re Invited!

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

2015.apricot.net
ROA Session

SANOG XXV, 17 January 2015

Pubudu Jayasinghe
pubudu@apnic.net
Resource Certification, ROA, RPKI

- APNIC offers Resource Certification as a tool to Members to create Route Origin Authorizations (ROAs) in MyAPNIC.
- A ROA is a digitally signed, cryptographic object generated by the Resource Certification service.
- The Resource Public Key Infrastructure (RPKI) is the framework that enables users of public networks to verify the authenticity of data that has been digitally signed by the rightful custodian of the IP resource.
Benefits of creating a ROA

- Verify whether an AS is authorized to announce a specific IP prefix
- Minimize common routing errors
- Prevent most accidental hijacks
AS4 (Large ISP)

AS1 (ISP of Victim)

BGP:1.1.1.1/16

AS2 (Legitimate owner of 1.1.1.1/16)

BGP:1.1.1.1/16

AS3 (ISP of Hijacker)

BGP:1.1.1.1/24

Source: http://www.secureworks.com/
What is a ROA object?

- What’s contained in a ROA
  - The AS number you have authorized
  - The prefix that is being originated from it
  - The most specific prefix (maximum length) that the AS may announce

For example: “ISP 4 permits AS 65000 to originate a route for the prefix 192.2.200.0/24”
Creating ROA in MyAPNIC

• What you need to have before creating a ROA
  – Must be an APNIC Member
  – Have access to MyAPNIC
  – Digital Certificate installed

• Takes only 5 minutes to create, and 10 minutes to be visible to the public
Invitation to ROA session

• 17th January @ “Coffee Shop” hall
• More information about RPKI
• Create your ROA object on the spot
• Provide your feedback; share your experiences
• Get your ROA t-shirt
• Drop in your business card
THANK YOU