APNIC Report

SANOG XXV, 17 January 2015

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APNIC

Overview
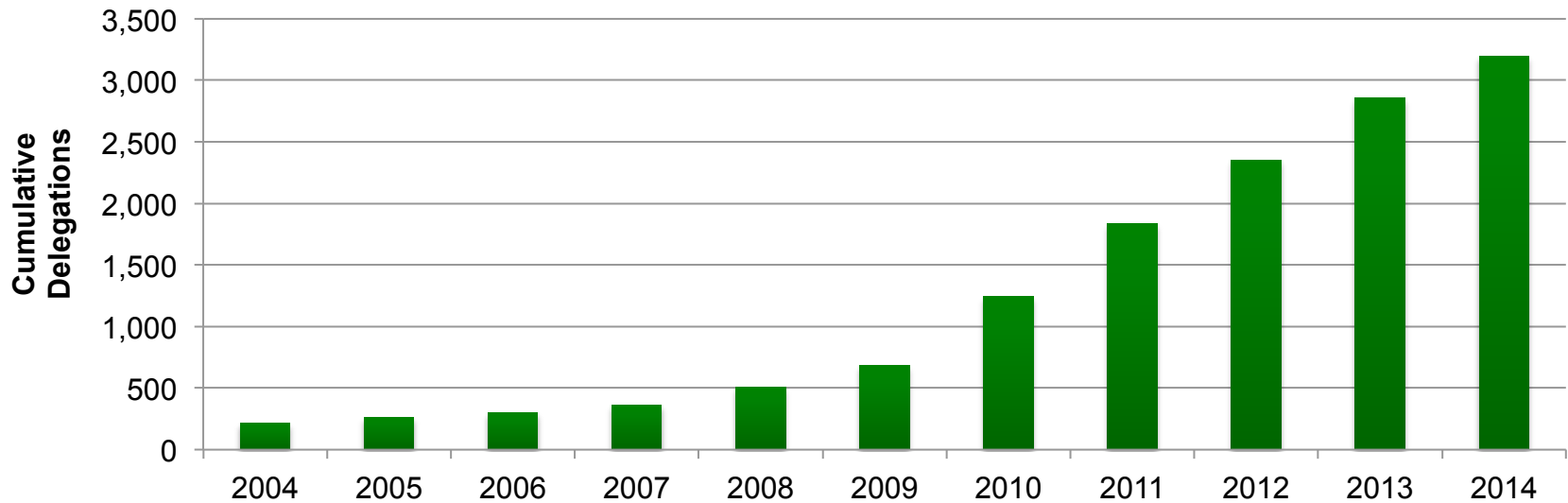
Serving Members in 2014

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"
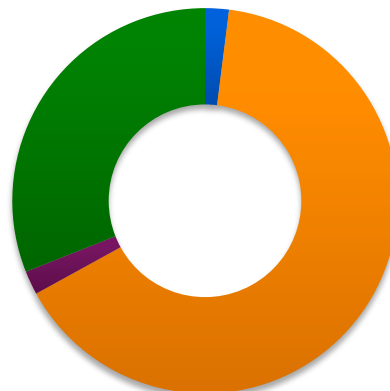
APNIC

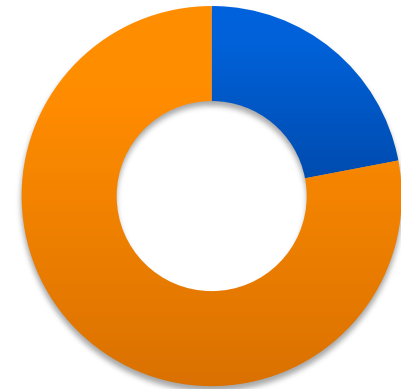# IPv6 Delegations

In 2014

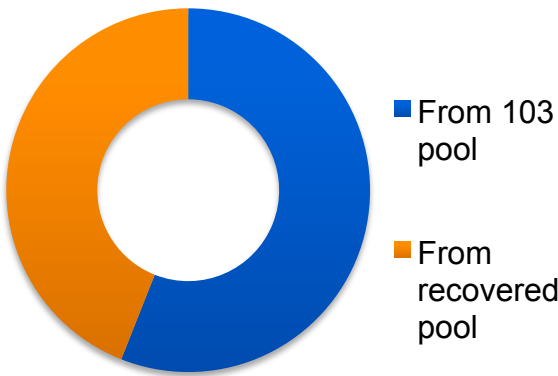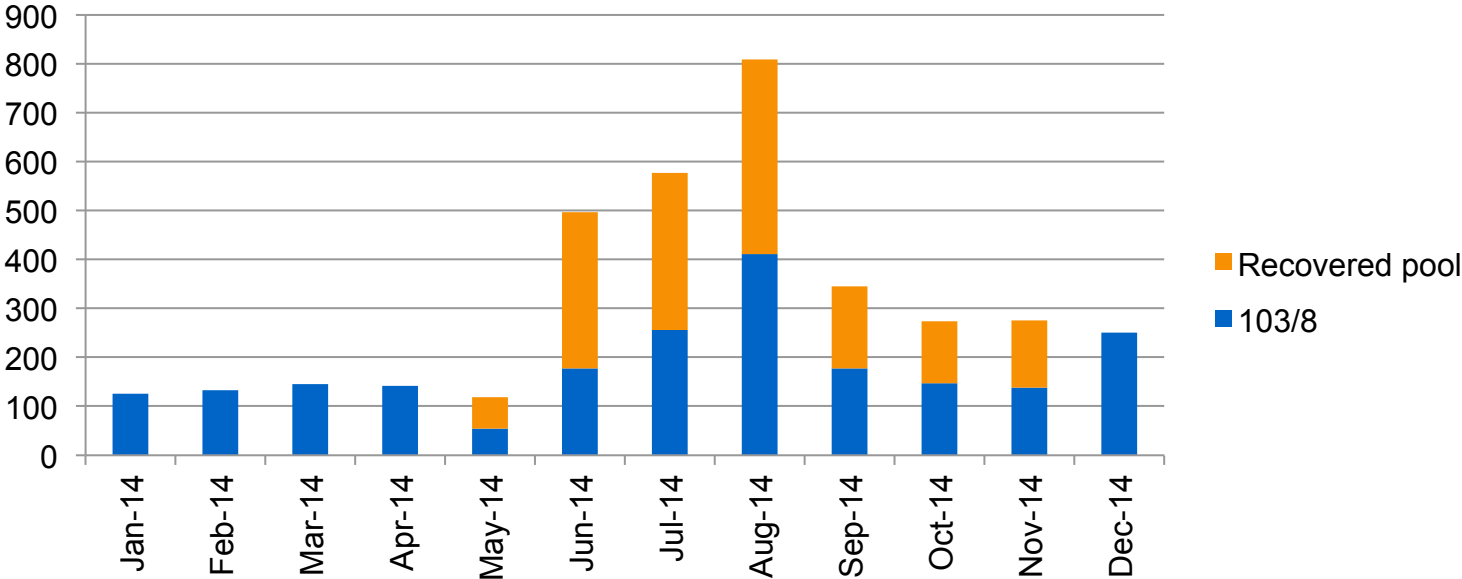By delegation type
- Allocation
- Assignment

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

By request type
- One-click
- Normal

As at 31 August

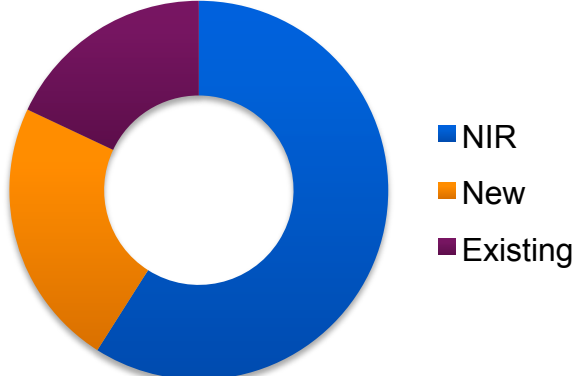# IPv4 Delegations

By pool
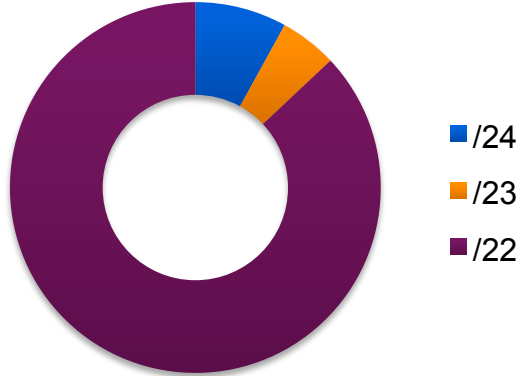
By size

By Member

ASN Assignments
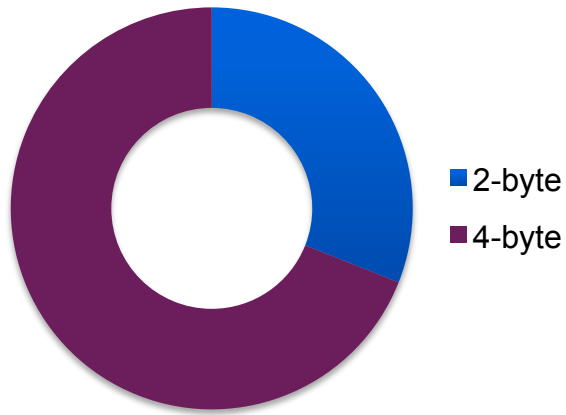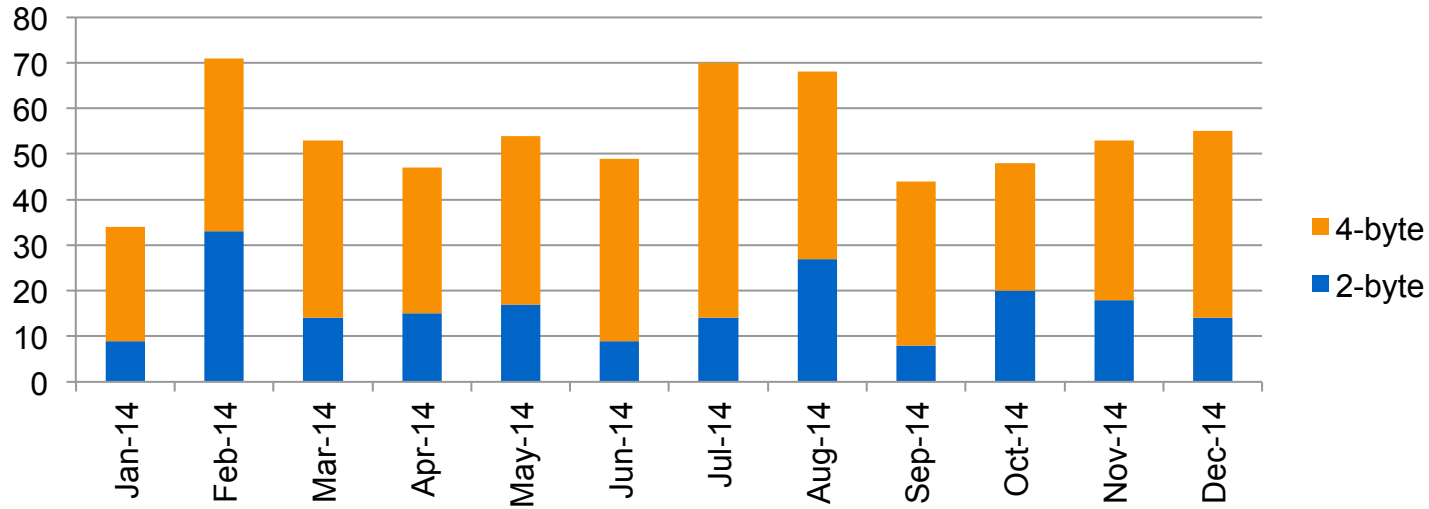
By type
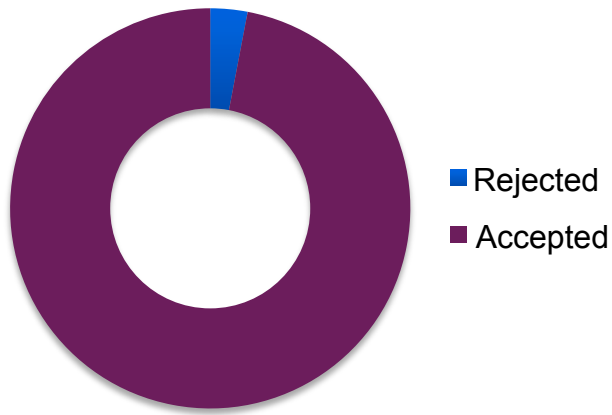
4-byte return rate
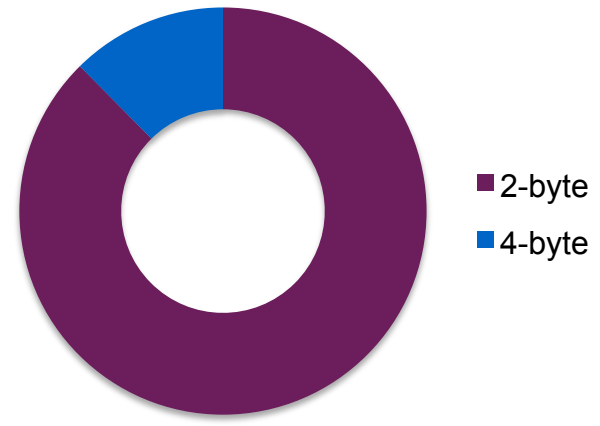
Global ASN use

As at 31 December

APNIC
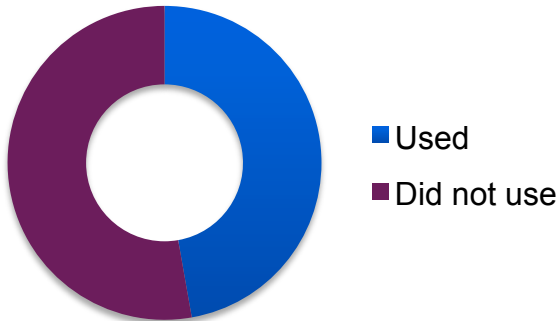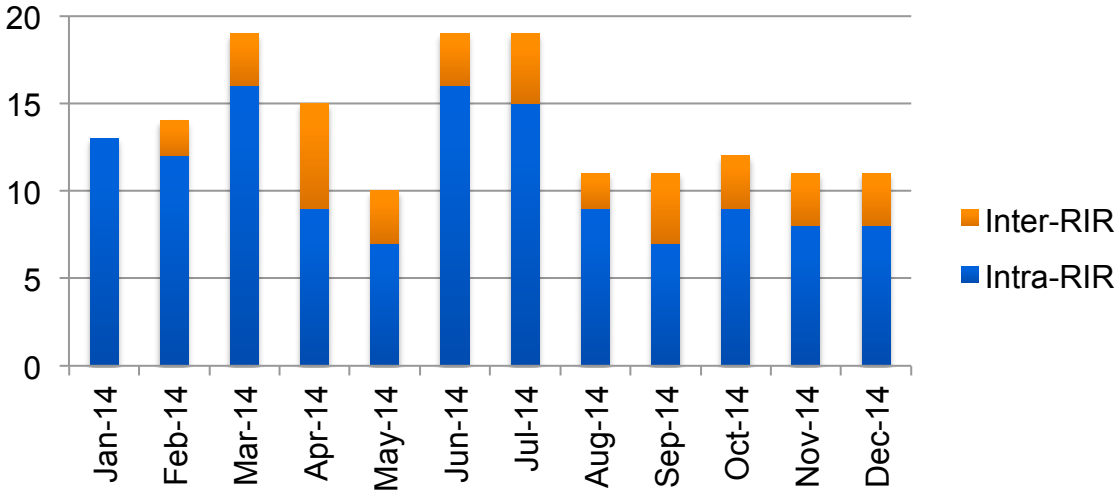
IPv4 Transfers

Using listing service
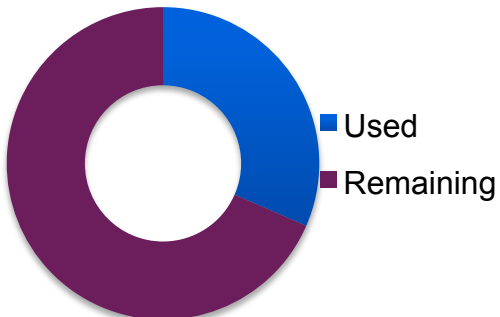
Pre-approval usage

- Transfers mailing list
- IPv4 listing service
- Registered brokers
- Pre-approval
- Inter-RIR transfers

As at 31 December

APNIC Membership
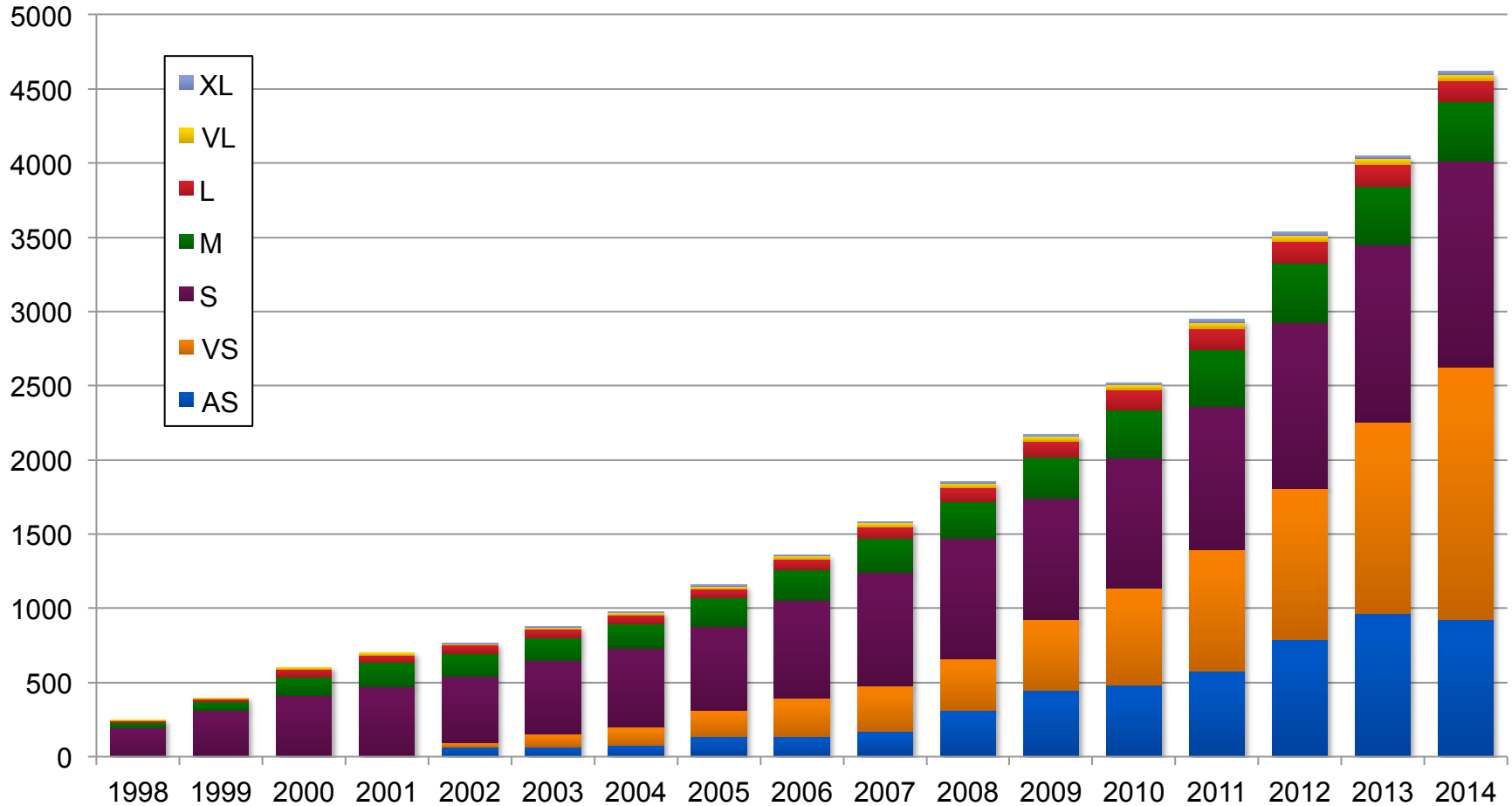
As at 31 December

APNIC Membership in South Asia

Legend:
- Bangladesh
- Bhutan
- India
- Maldives
- Nepal
- Pakistan
- Sri Lanka

Values shown: 14, 197, 5, 399, 4, 30, 82

APNIC

New VOIP system

New Member welcome calls

MyAPNIC

Service Improvements

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

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

0   500   1000   1500   2000   2500   3000

2015 Fee schedule

Renewal Fee Comparison for /24

11% Reduction
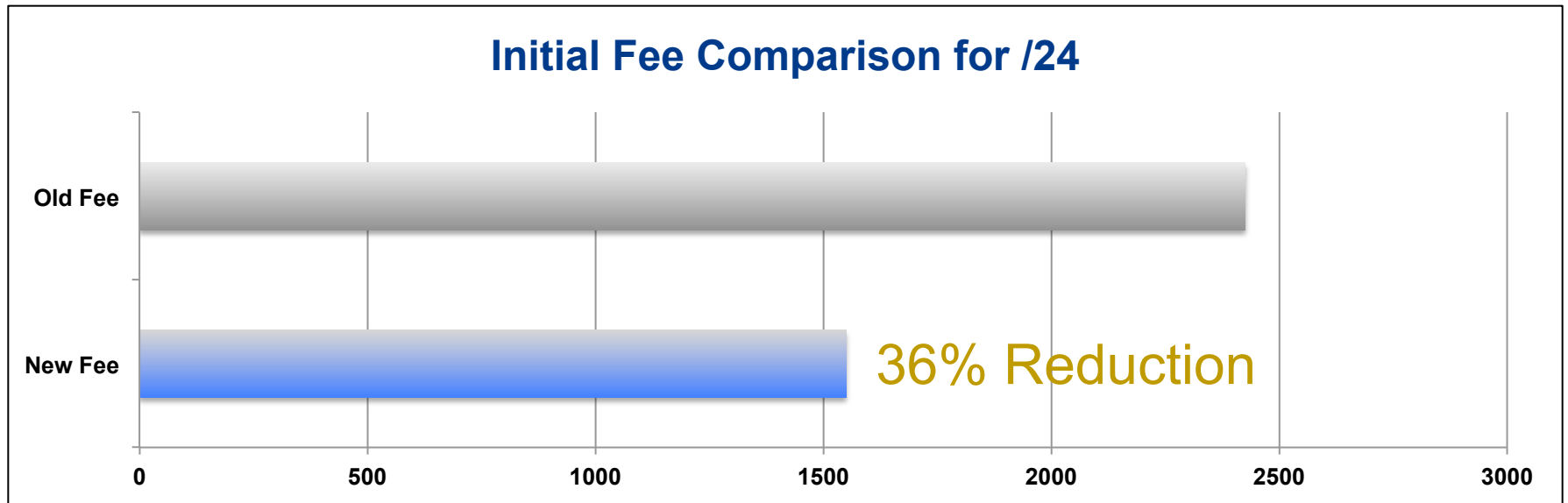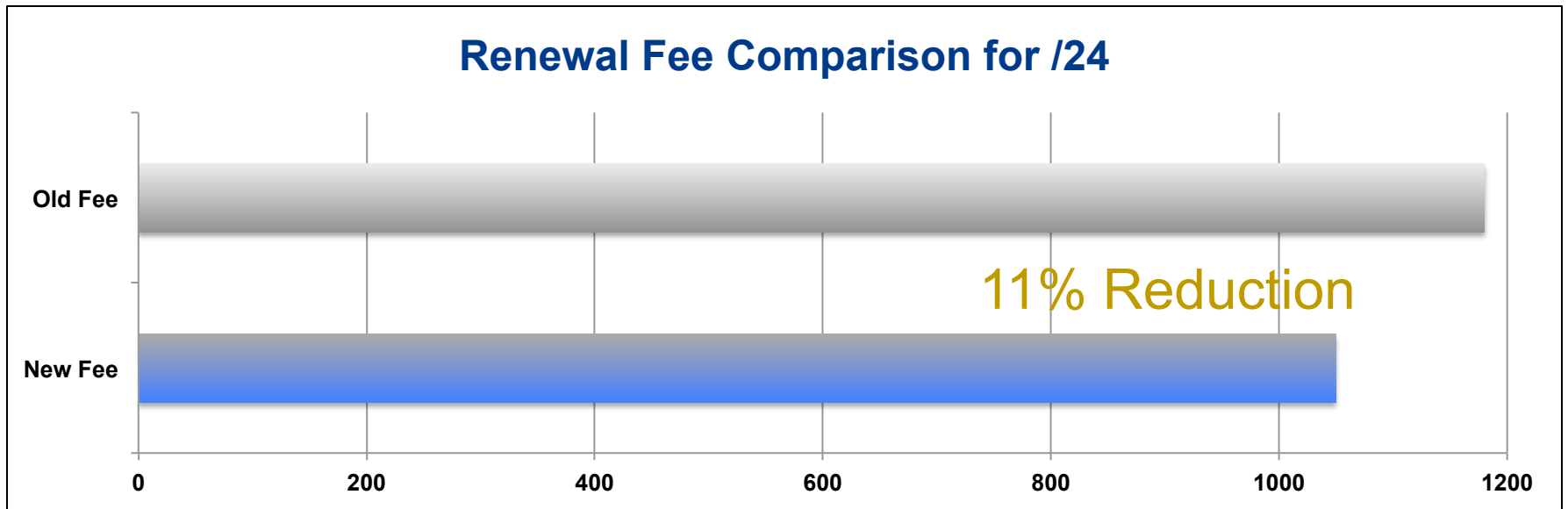
APNIC

You're Invited!

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

2015.apricot.net

ROA Session

SANOG XXV, 17 January 2015

Pubudu Jayasinghe

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APNIC

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

BGP:1.1.1.1/16
BGP:1.1.1.1/24

AS1 (ISP of Victim)

A

AS4 (Large ISP)

C

BGP:1.1.1.1/16

AS2
(Legitimate owner of 1.1.1.1/16)

B

BGP:1.1.1.1/24

AS3 (ISP of Hijacker)

D

Source : http://www.secureworks.com/

APNIC

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BGP:1.1.1.1/16

AS1 (ISP of Victim)

AS4 (Large ISP)

C

A

BGP:1.1.1.1/16

BGP:1.1.1.1/24

AS2
(Legitimate owner of 1.1.1.1/16)

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Source : http://www.secureworks.com/

APNIC

23
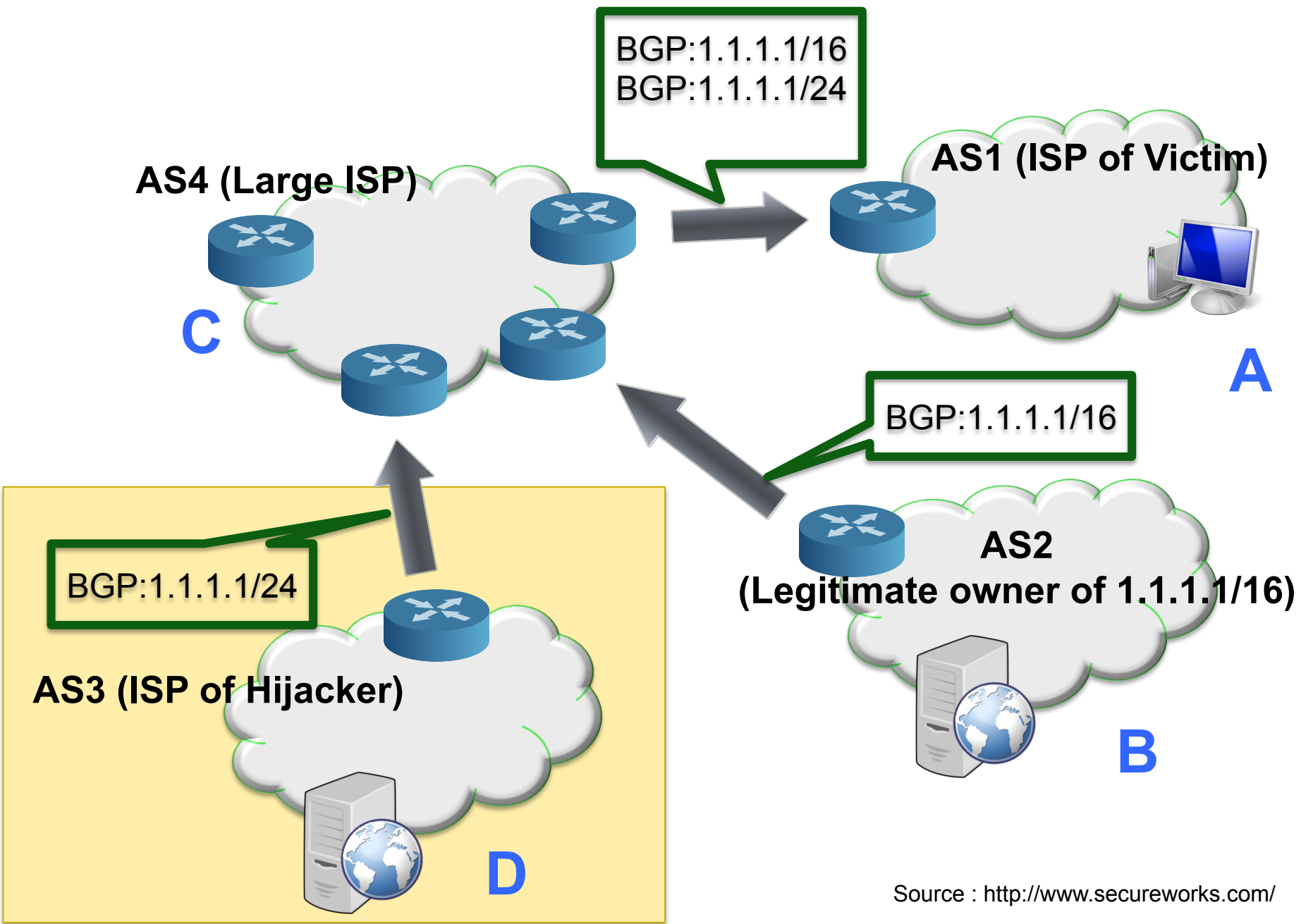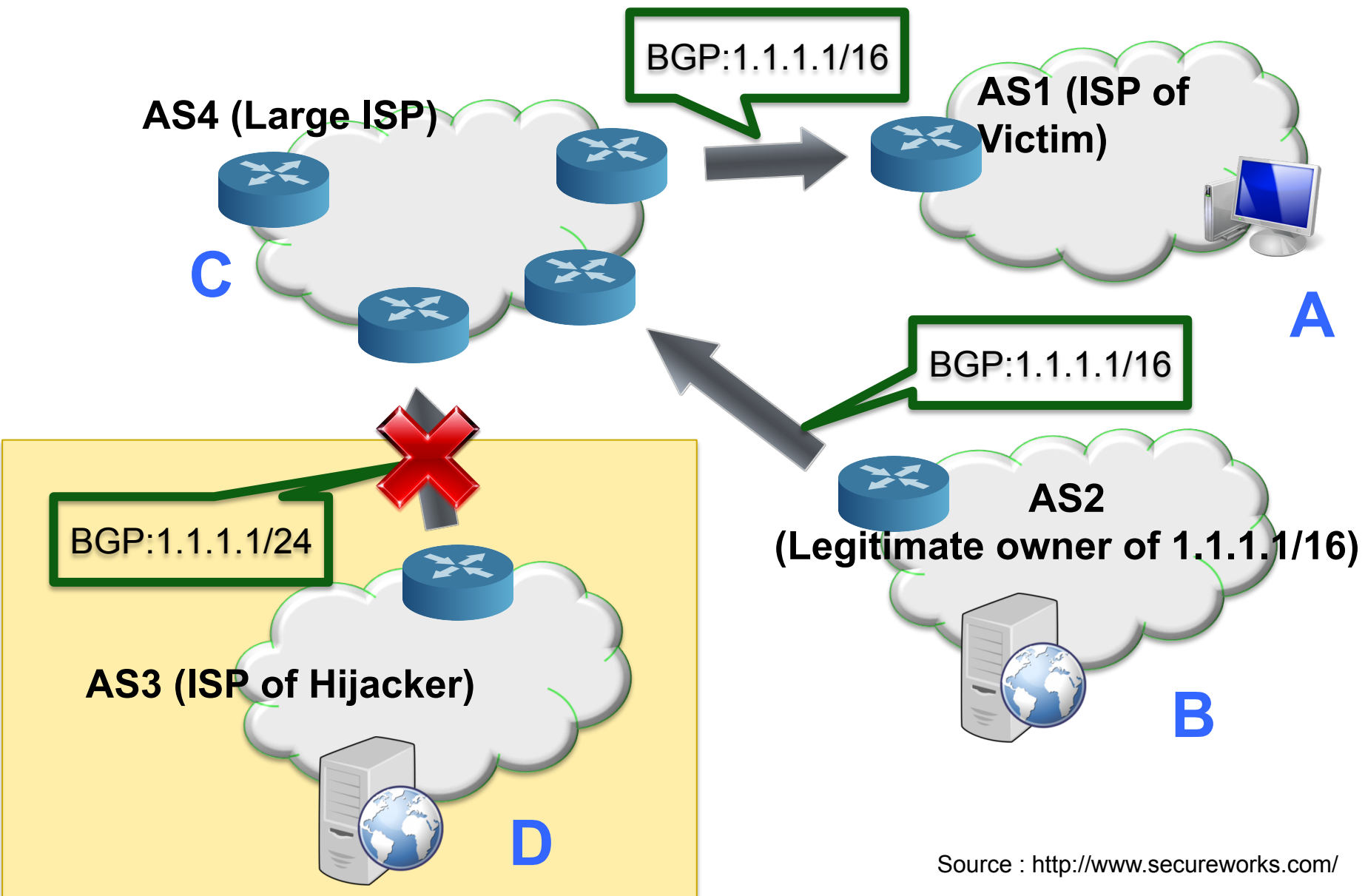
What is a ROA object ?

- 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

www.apnic.net/roa

APNIC

THANK YOU

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