

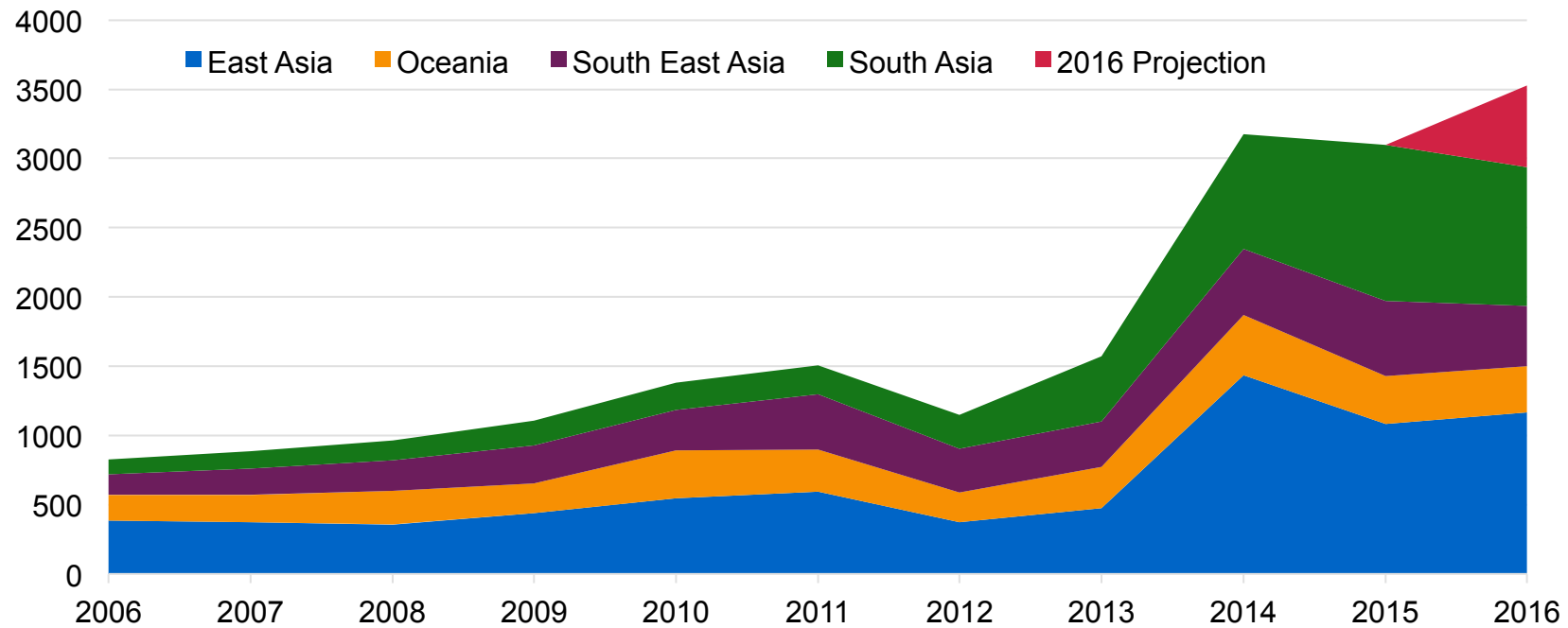
# Changes you need to know

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PacNOG 19 28-11-2016



# Annual IPv4 Delegations



As at 31 October

# Current IPv4 Delegation Policy and Practice

- APNIC: Maximum /22 from final /8 (103/8). Requests for /22 from recovered pool put onto waiting list
- RIPE NCC: Maximum /22 from the final /8 pool for each member
- ARIN: All requests put onto the waiting list
- LACNIC: Maximum /22 for each Member every 6 months
- AFRINIC: Expect to hit final /8 early next year

# Waiting list – What waiting list?

- 9 June 2016 first approved request from recovered pool couldn't be processed
- Triggered activation of IPv4 Recovered Pool waiting list

# How the Waiting List works?

- Any approved request from recovered pool put onto the waiting list
- Based on request timestamp (oldest to newest)
- Option to remove request from waiting list anytime
- After 12 months request removed from waiting list unless member reconfirms need justification

# Waiting List

## Current Waiting List for Unmet IPv4 Requests

Position	Size	Date / Time (UTC +10)
1	/22	2016-09-05 17:30:53
2	/22	2016-09-05 21:03:06
3	/22	2016-09-06 13:57:01
4	/22	2016-09-07 00:33:24
5	/22	2016-09-07 14:33:03
6	/22	2016-09-07 19:21:01
7	/22	2016-09-08 07:32:52
8	/22	2016-09-08 10:32:43
9	/22	2016-09-08 11:06:02
10	/22	2016-09-08 16:09:02

Showing 1 to 10 of 146 entries

Previous

1

2

3

4

5

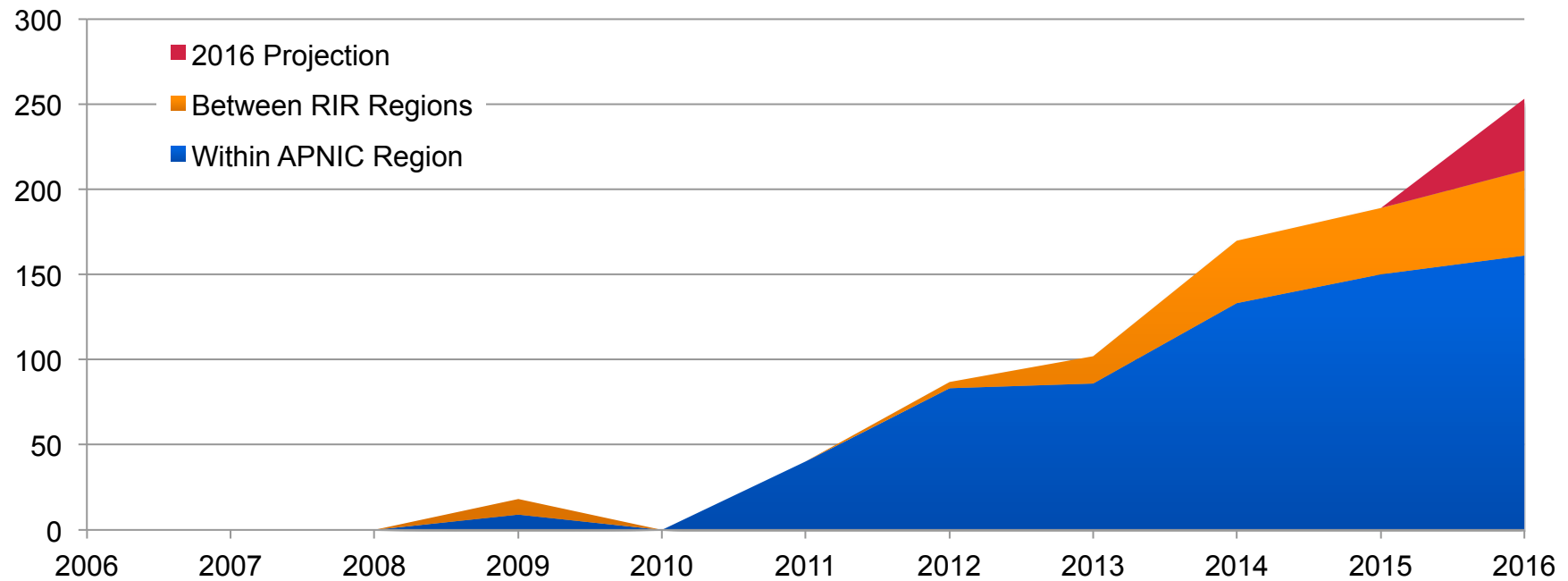
...

15

Next

<https://www.apnic.net/ipv4-waiting-list>

# Annual IPv4 Transfers



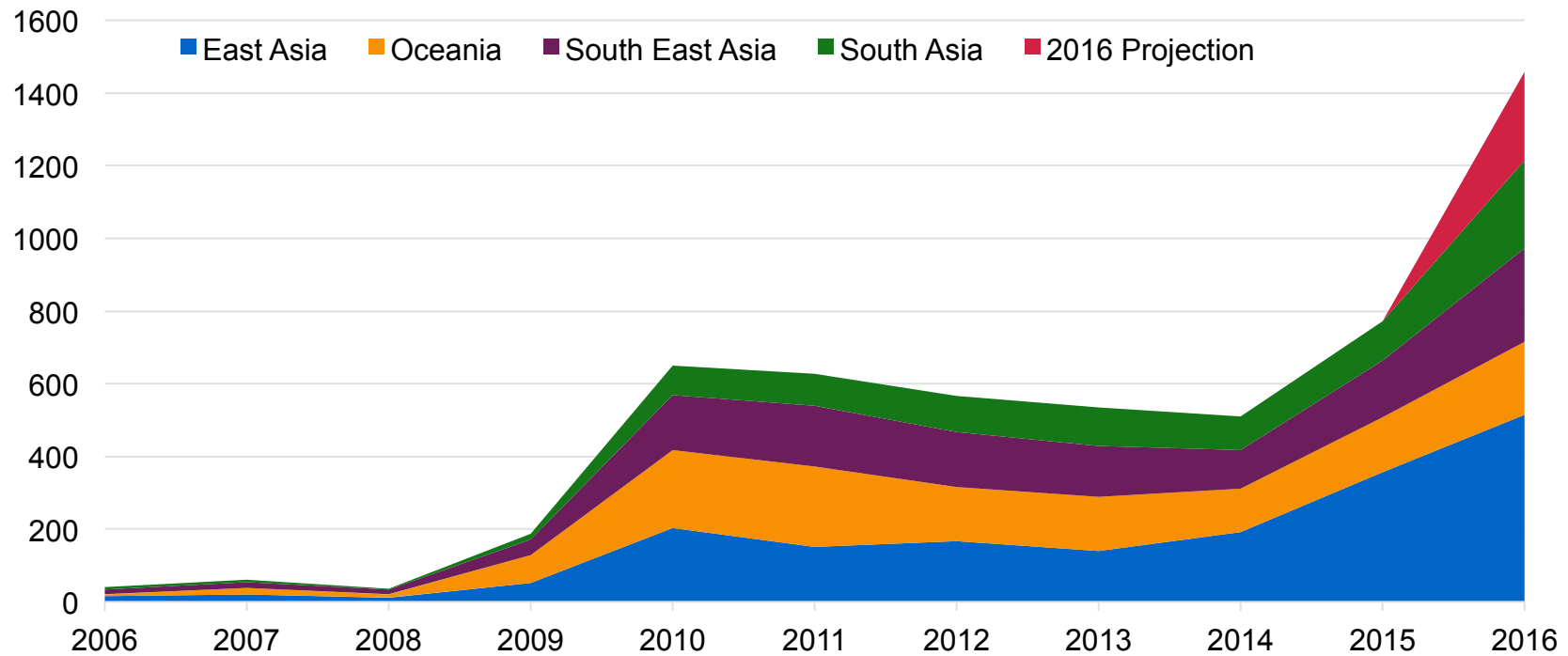
As at 31 October



# Which RIR allows IPv4 inter-RIR Transfers?

- APNIC, ARIN and RIPE NCC implemented inter RIR IPv4 transfer policy
- LACNIC and AFRINIC have no inter-RIR transfer policy

# Annual IPv6 Delegations

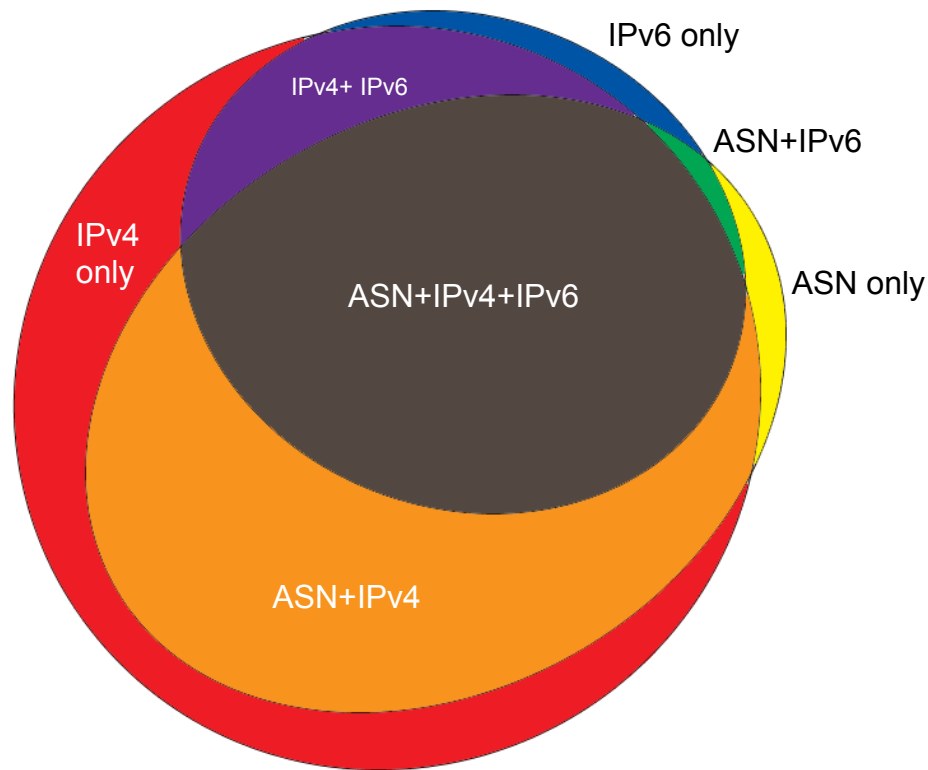


As at 31 October

# Why IPv6?

- IPv4 address supply is exhausted
  - New networks require addresses
  - Stop-gap measures are damaging (NAT)
- The Internet is growing fast
  - Broadband: mobile and wifi
  - “Internet of Things”
- IPv6 is the only viable option we have now
  - Much larger address space than IPv4

# Member Resource Holdings



% of Members Holding	
ASN	73%
IPv4	95%
IPv6	49%

# Whois and Whowas

APNIC



## APNIC Whois Search

To assist you with debugging problems, this whois query was received from IP Address:  
**2001:dc0a:000:4:78ee:f637:674b:7c88**  
If you experience problems with this form, try the legacy search form.

% APNIC found the following authoritative answer from: whois.apnic.net

% [whois.apnic.net]  
% Whois data copyright terms: <http://www.apnic.net/db/dbcopyright.html>

% Information related to 'AS4688 - AS4864'

```
as-block: AS4688 - AS4864
descr: APNIC ASN block
remarks: These AS numbers are further assigned by APNIC
remarks: to APNIC members and end-users in the APNIC region
admin-c: IN28-AP
tech-c: IN28-AP
mnt-by: APNIC-HM
mnt-lower: APNIC-HM
changed: hm-change@apnic.net 20020926
changed: hm-change@apnic.net 20030207
changed: hm-change@apnic.net 20050309
source: APNIC
```

```
role: APNIC Hostmaster
address: 6 Cordelia Street
address: South Brisbane
address: QLD 4101
country: AU
phone: +61 7 3858 3100
fax-no: +61 7 3858 3199
e-mail: helpdesk@apnic.net
admin-c: ANS11-AP
tech-c: AN256-AP
```

- Upgrading WHOIS to version 4
  - RDAP code integrated into WHOIS codebase
  - Incorporating 'Org' object rules
- WHOWAS – development underway for a public historical information service
  - Testing historical service API system; extending RDAP result format
  - Prototype user interface for

# Organization object

**organization: APNIC112-AP**

**org-name: APNIC Pty Ltd**

**address: 6 Cordelia Street, South Brisbane**

**country: AU**

**e-mail: helpdesk@apnic.net**

**mnt-by: APNIC-HM**

**last-modified: hm-changed@apnic.net 20160902**

**source: APNIC**

# Purpose of Organization object

- Links all resources associated with an Organization
  - Quicker to filter information
  - Contains business information only
- Provides clarity
  - Resource custodianship VS resource usage
  - <https://www.apnic.net/get-ip/faqs/organization-object>

# What's next for you

- Whois upgrade live March 2017
- Be familiar with Organization object (and how it works)
- Stay tuned to news about Organization object
- Keep us informed if organization details require update



# Your all invited!



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**APNIC 43**



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**Registration will open soon**

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# Questions ?