

# Collaboration among the NIRs and APNIC IPv6 Program

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By Miwa Fujii, IPv6 Program Manager  
APNIC

# Overview

- The APNIC IPv6 Program
  - Objectives
  - Activities
- IANA's final 10% project
  - Background
  - Plans
  - Impact analysis
- Working together with the NIRs

# The APNIC IPv6 Program: Objectives

- Established in August 2008
  - To provide tangible support to all stakeholders in this region regarding IPv4 address exhaustion and IPv6 adoption
    - Gather data
    - Monitor technical developments
    - Share information tailored to the individual stakeholder's requirements
    - Collaborate with national and regional organizations through strategic alliances

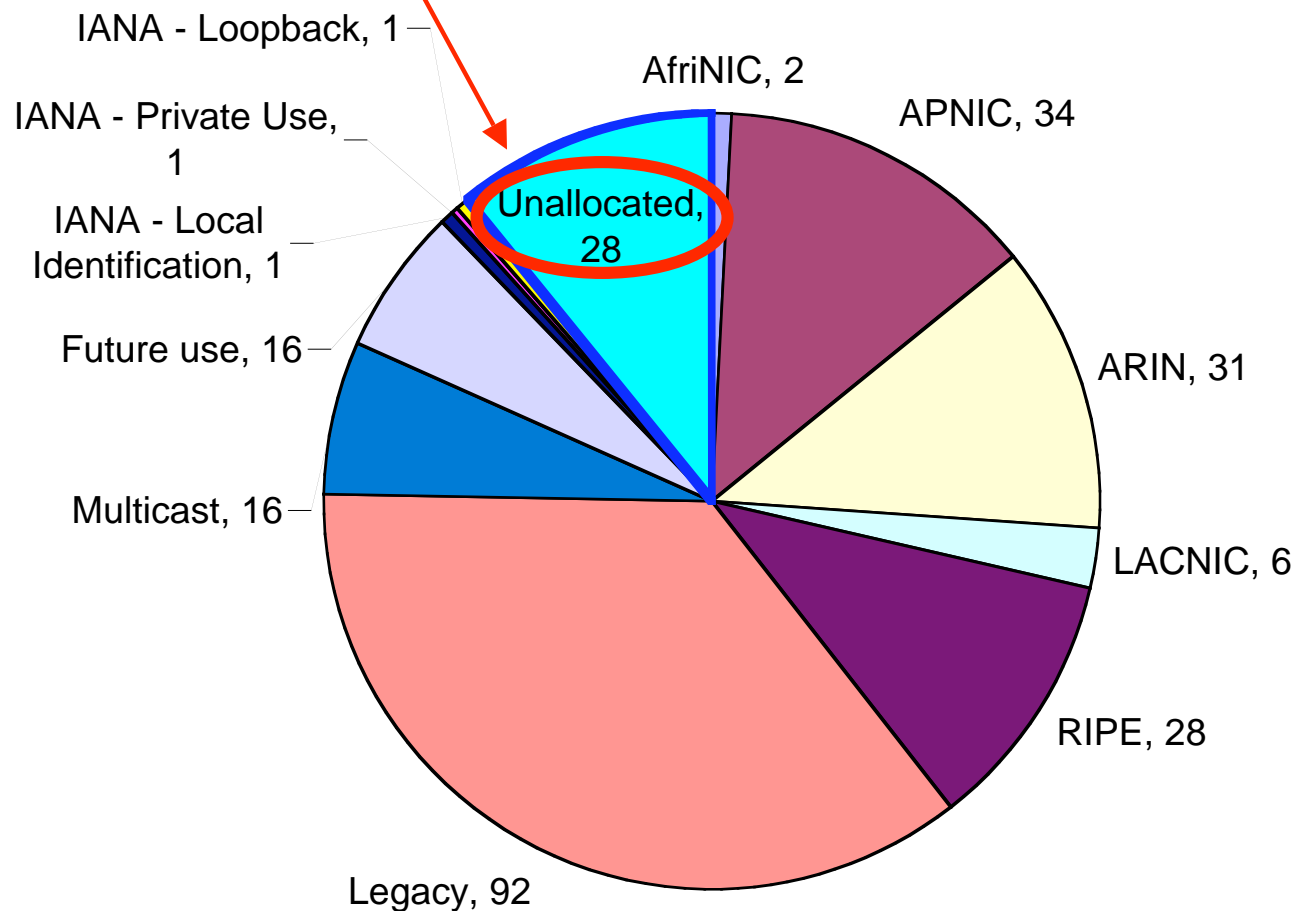
# The APNIC IPv6 Program: Activities

- Representing APNIC's view on IPv4 address exhaustion and IPv6 adoption at various conferences and trade shows
  - Global IPv6 Summit (TH, CN, and KR in 2009)
  - APEC TEL39
  - NOGs and NIR OPMs
  - CommunicAsia 2009
  - And so forth...
- Meetings with governments
  - SG, ID, and HK
- Disseminating information via:
  - [www.apnic.net/ipv6](http://www.apnic.net/ipv6)
  - [www.icons.apnic.net/ipv6](http://www.icons.apnic.net/ipv6)
  - IPv6 brochure for multi-stakeholders

# IANA's final 10% project: Background

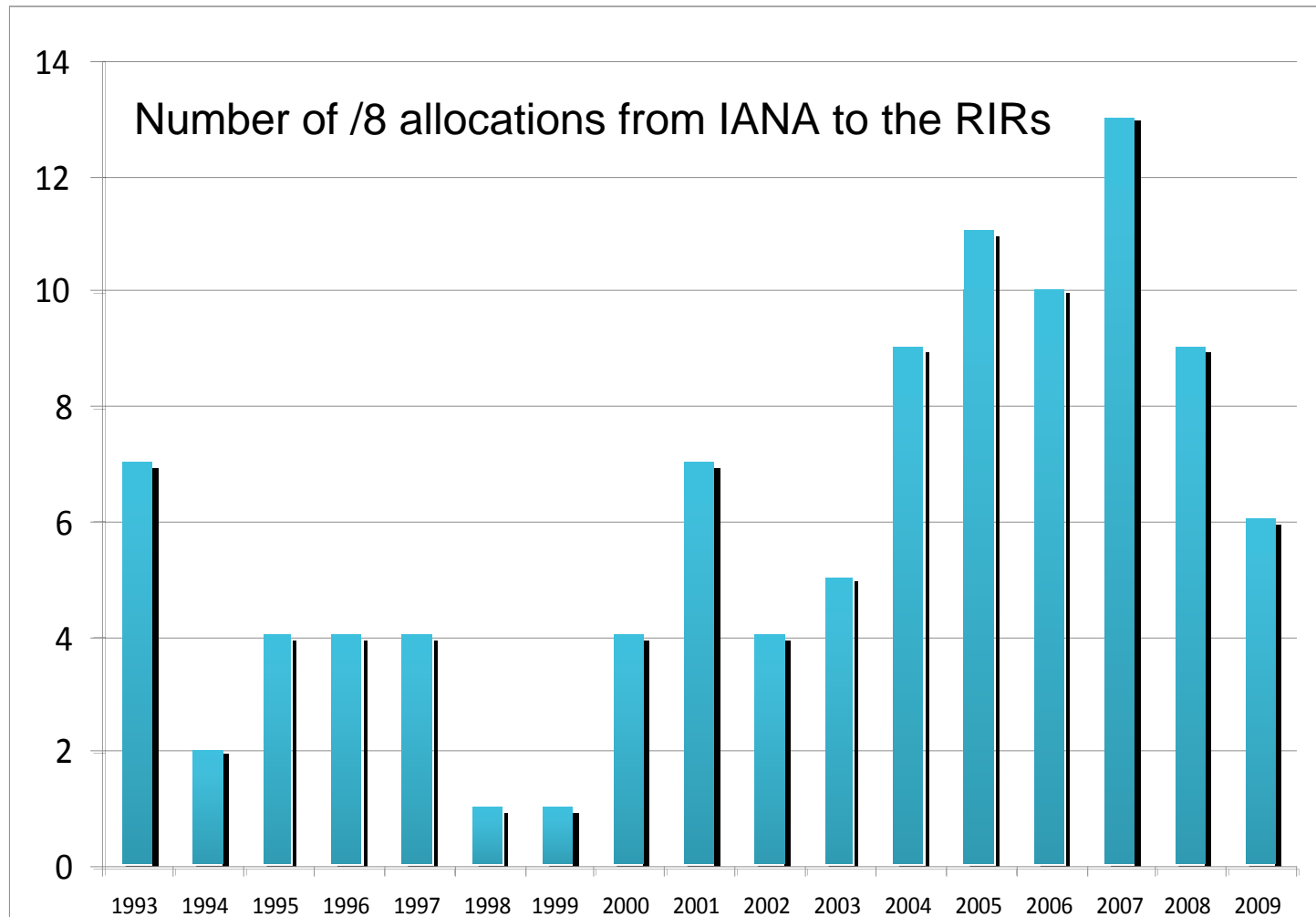
Remaining at IANA 28 x /8

256 x 10% = 25.6



<http://www.iana.org/assignments/ipv4-address-space/> as of 13/08/2009

# IPv4 allocations from IANA to the RIRs

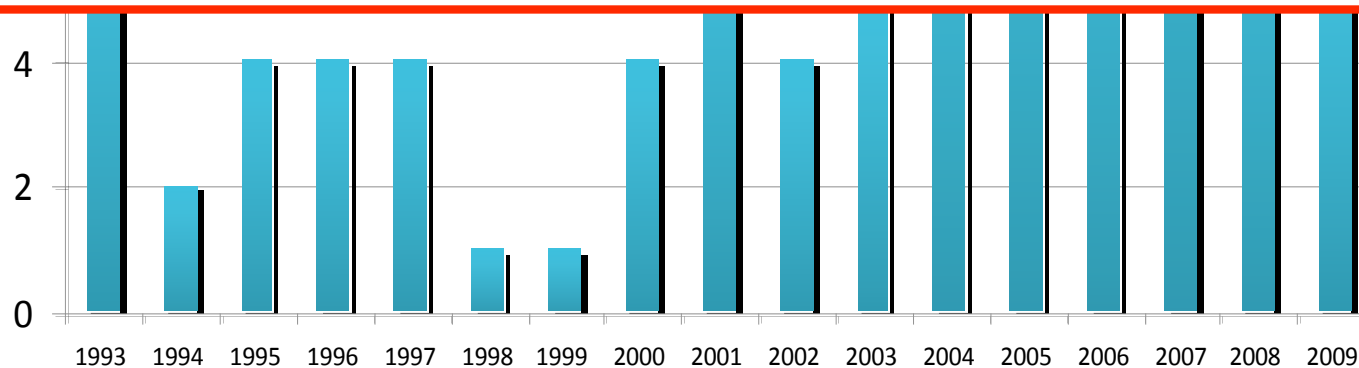


<http://www.iana.org/assignments/ipv4-address-space/> as of 13/08/2009

# IPv4 allocations from IANA to the RIRs

## What we know:

- The RIRs allocated 13 /8s in 2007; 9 /8s in 2008
- There are 28 /8s remaining as of 13 Aug 2009
- APNIC received 2 /8s this month
- Other RIRs can request more /8s at any time
- The remaining IPv4 pool at IANA may hit 10% sometime soon



# Plan

- Take advantage of the 10% event
  - Be proactive in disseminating information to support IPv6 adoption
    - Use this occasion to “sell” the idea of the necessity of IPv6 adoption
- Collaborate with NIRs
  - Present the APNIC IPv6 Program’s “IANA 10% mark” project plan at APNIC 28
  - Establish a P2P communication link with each NIR
- Coordinate activities with other RIRs
  - Be aware of the other RIRs’ plans so that we can avoid being reactive
- Collaborate with the NRO
  - Coordinate joint announcements if possible
- Utilize a PR agent to maximize information dissemination



# Impact analysis

- 10% PR campaign may cause the community to react
  - Questions:
    - “What do we need to do now?”
    - “Can we reserve IPv4 addresses now?”
    - “Can APNIC or the NIRs help us?”
    - “What will happen after the exhaustion?”
    - And so forth...
  - Enquiries to APNIC and the NIRs may increase
    - Clear, focused, and unified messages will help
    - The right message at the right time
    - Need to channel this “anxiety” to IPv6 adoption

# Working together with the NIRs

- Manage this changing period together
  - Establish P2P links between the APNIC IPv6 Program and the NIRs
  - Establish a mechanism of mutual support
- Share the APNIC IPv6 Program's stance
  - Provide facts on IPv4 exhaustion and IPv6 deployment
    - It is not the objective of APNIC to make operational decisions for our members and other stakeholders
    - Provide the required support to make the right decisions
  - Tread carefully
    - Increase awareness but do not create unnecessary panic
      - especially among non-technical stakeholders

# Working together with the NIRs

- Share the APNIC IPv6 Program's quarterly objectives
- Maintain close communication with the NIRs, especially prior to the major media campaign
  - Provide synchronized messages to the AP community
  - NIRs can save resources for developing PR messages by utilizing the available messages developed by APNIC
- Round table meetings with:
  - Relevant NIR staff and board members to share the strategies and activities of the APNIC IPv6 Program



Thank you!



Discussion time