APNIC IPv6 Update

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20 July 2011, Singapore

In conjunction with

Singapore Network Operators' Group (SGNOG)
What is APNIC?

The Internet community established the RIRs to provide fair and consistent resource distribution and accurate resource registration throughout the world.
IPv4 Address Space

STATUS OF 256 /8s IPv4 ADDRESS SPACE

- CENTRAL REGISTRY 91
- RIRs 130
- TOTAL IPv4 SPACE
- NOT AVAILABLE 35
- IANA RESERVED 0

EXPERIMENTAL 16
LOCAL IDENTIFICATION 1
LOOPBACK 1
PRIVATE USE 1
MULTICAST 16

ARIN 36
AfriNIC 5
LACNIC 9
RIPE NCC 35

Internet Number Resource Report – March 2011
IPv4 - Where are we now?

Appropriate policies/procedures applied at different stage
What’s the Challenge?…

• You will need addresses for new network infrastructure
  – and will receive only IPv6 in the near future
• All Internet users will be affected
• Are you ready?
Preparing for IPv6 Transition

• Overall planning
  1. Review the impact of IPv4 address exhaustion
     • Inventory of your IT assets
  2. Develop an IPv6 deployment plan
     • Strategy, scope of the deployment, schedule, auditing of execution of the plan
  3. Budget readiness
  4. Technical management
  5. Human capacity development
IPv6 Address Distribution

Kickstart your IPv6 network!

Already a Member account holder? Have IPv4 addresses and want IPv6 resources?

**Members**: [Login](#) and receive IPv6 addresses via MyAPNIC.

New to APNIC? Only want to apply for IPv6 resources?

**Find out** how easy it is to get IPv6 addresses.
IPv6 Address Management

- APNIC Allocation /32 (IPv6)
- APNIC /12 (IPv6)
- Member Allocation /32
- Sub-allocation /40
  - Assignment /48
    - Portable
  - Assignment /64
    - Non-Portable
  - Assignment /48
    - Non-Portable
IPv6 Allocations – South Eastern Asia

Number of IPv6/32s by Economy

http://www.apnic.net/stats/o3/
IPv6 Allocations – Asia Pacific

Number of IPv6/32s by Economy

- Eastern Asia: 18,928.13
- Oceania: 8,603.01
- South-Eastern Asia: 168
- Southern Asia: 8,603.01

http://www.apnic.net/stats/o3/
IPv6 Allocations – World wide

Number of IPv6/32s by Registry

- afrinic: 44.72%
- apnic: 11.16%
- arin: 25.08%
- lacnic: 18.89%
- ripencc: 0.16%

http://www.apnic.net/stats/o3/
More information

• IPv6 Training courses
  – Face to face, eLearning and Technical hands-on workshops
  – http://www.apnic.net/training

• APNIC Helpdesk
  – Email <helpdesk@apnic.net>
  – Chat (9am to 9pm AEST)

• APNIC Website
  – http://www.apnic.net
Thank You! 😊