

IPv6 Address Allocation APNIC

IPv6 Summit July 2-6 2001, Korea

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Address Policy

- Gobal policy document status
- Current issues

Deployment Status

- Allocation analysis
- Database registrations
- Routing announcements



- Oct 1998 Initial discussions RIRs/IETF and RIR communities
 Jul 1999 Provisional policy document released
- Aug 1999 IPv6 allocation service began
- Oct 1999 Review of policy document after early deployment experience
- 2001 Revised policy document to be published following extensive IETF/community input
- 2002... Policies <u>always</u> subject to change

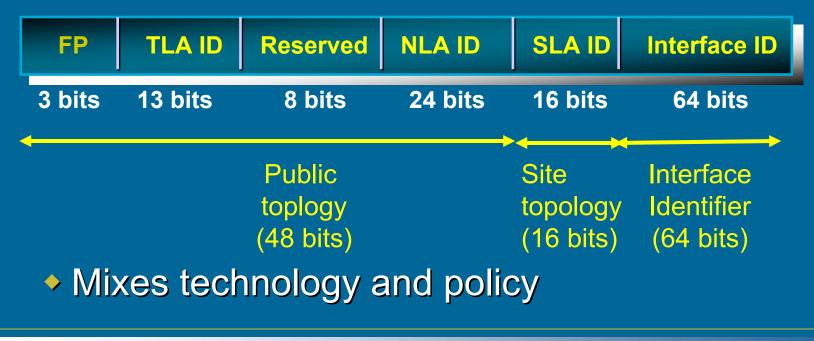


Consensus on /48 for a "site" If no need for subnets, less can be used Discussion ongoing Almost 100 SubTLA's allocated End of bootstrap period? PI assignments Policy needed in IPv6? Address architecture IETF/RIR recommendations – revision of rfc2374



Aggregatable Global Unicast Format
RFC2374 (FP001)

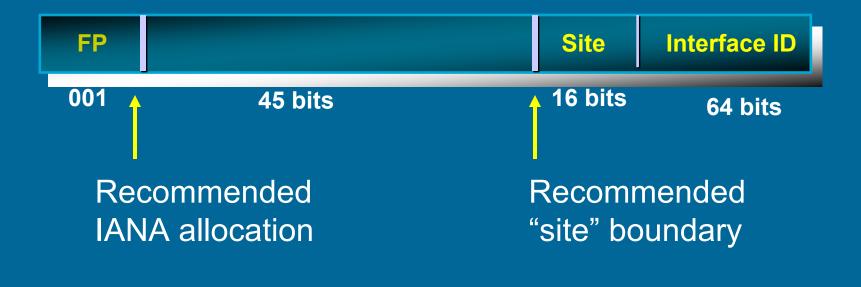
128 bit addresses

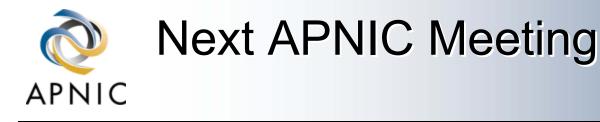




IPv6 Unicast Addressing

Proposal: Separate technology and policy



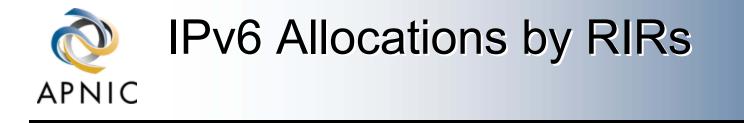


APNIC 12, Taipei http://www.apnic.net/meetings Policy discussions Joint IPv6/Address Policy SIG Wed 29th August A warm welcome! To anyone with interest in IPv6 policy development especially this community Feedback and input requested



IPv6 Allocations

In the Asia Pacific Region

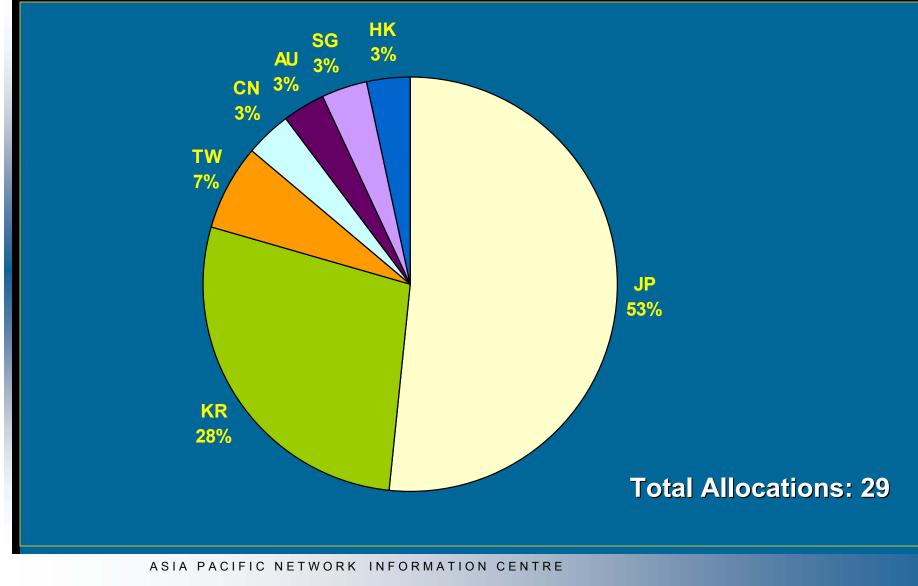


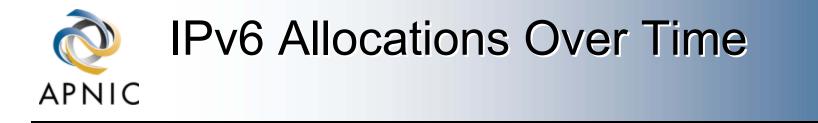
APNIC 2001:0200::/23
29 allocations (/35)

ARIN 2001:0400::/23
17 allocations (/35)

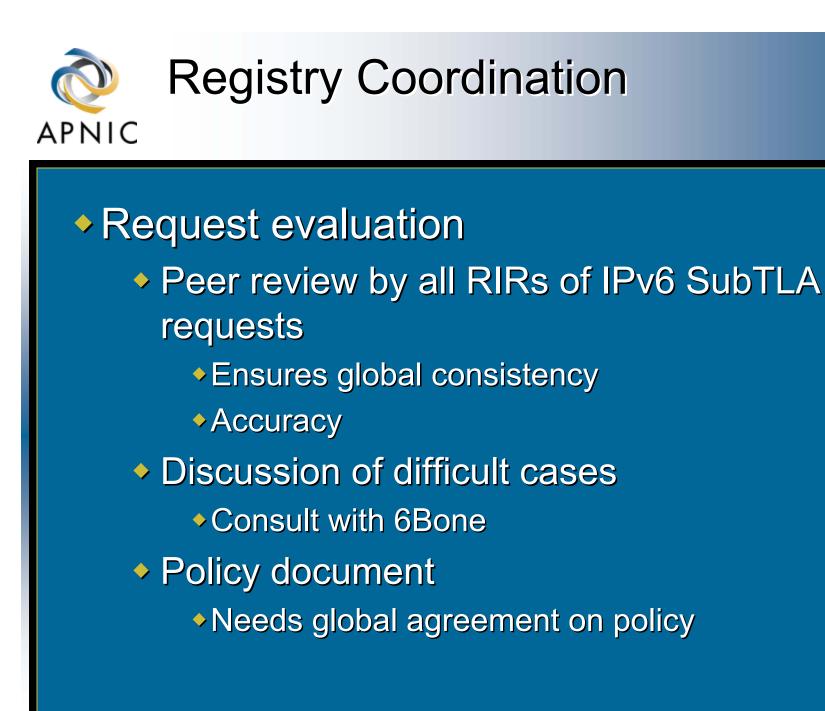
RIPE NCC 2001:0600::/23
37 allocations (/35)

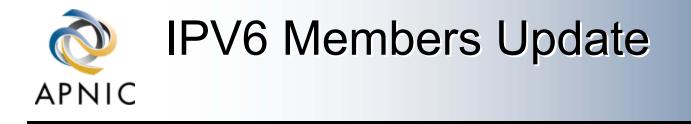






 APNIC allocations to 18 June 2001 Since August 1999 ♦7 in 1999 ◆15 in 2000 ◆ 7 in 2001 By organisation ♦6 Research ISPs 3 Government ISPs 20 Commercial ISPs





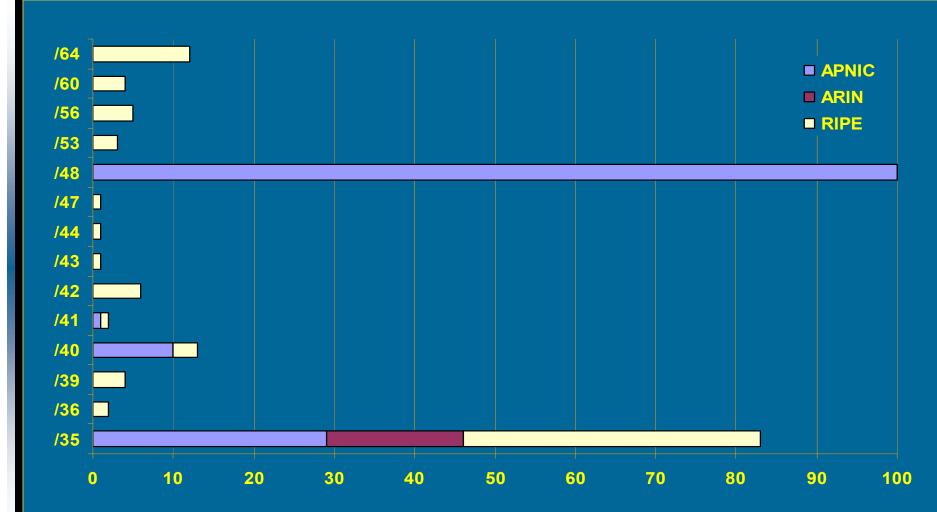
Feedback from members > 1 year Type of services being provided IPv6 connectivity, interoperability tests, experimental services, ftp servers, web browsing Connectivity Connected to 6TAP and other IPv6 networks in the region Network implementation Native IPv6 & tunneling



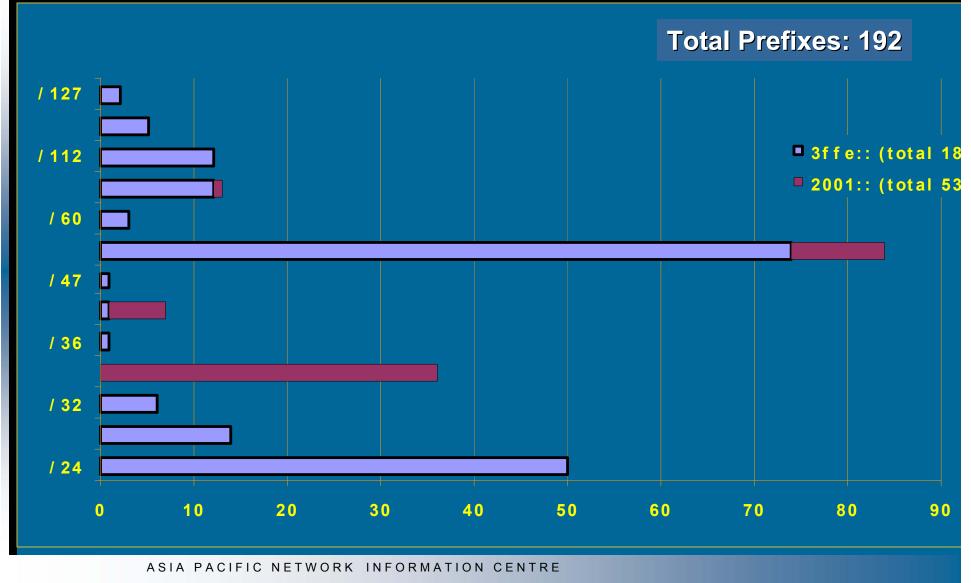
APNIC IPv6 Dissemination

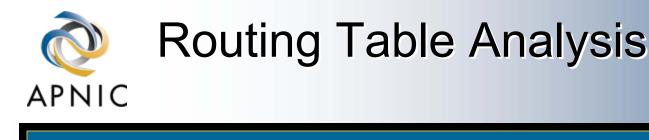
 Training courses Expanded module on IPv6 architecture Open seminars Introduction to IPv6 Tutorials In conjunction with APNIC meetings FAQ http://www.apnic.net/fag/IPv6-FAQ.html











Registration does not indicate usage Allocation records are reliable to determine who "might" use address space Assignment records may be incomplete Actual usage shown by routing tables However, this is a subjective view depending on point of observation Also, view changes constantly with time



