Proposal 2008-07: Ensuring efficient use of historical IPv4 resources

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RIPE 57

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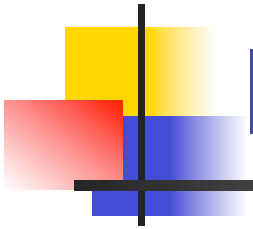
26-30 October 2008

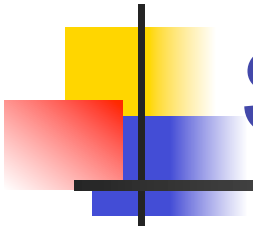


Introduction

- All IPv4 addresses will be allocated by around 2011 or 2012
- It is important that remaining IPv4 addresses should be allocated responsibly and fairly

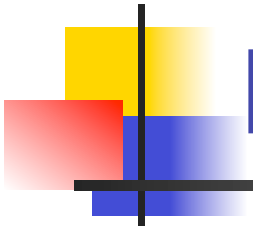
Summary of Current Problem

- LIRs applying for new IPv4 allocations from RIPE NCC only have to include past allocations received from RIPE NCC
  - They are not required to declare any historical addresses they may have received prior to receiving address space from RIPE NCC



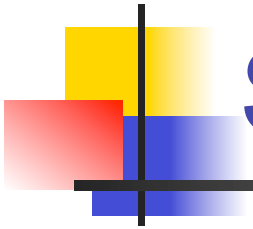
Summary of Current Problem

- LIRs can receive IPv4 addresses from the RIPE NCC while holding unused historical addresses
  - The RIPE NCC only assesses previous allocations made by the RIPE NCC
  - This uses up the remaining IPv4 pool more rapidly than is really necessary
  - Counter to our goals of being economical and prudent (especially in times of scarcity)



Historical Addresses

- Refers to all IPv4 address space registered in the RIPE database
  - (not just address space registered by the RIPE NCC)

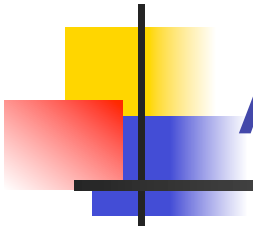


Situation in other RIR regions

- When making new allocations:
  - ARIN and LACNIC
    - Consider historical address assignments and allocations
  - APNIC
    - Proposal-066 to consider historical assignments and allocations ended last call
  - AfriNIC
    - Do not consider historical address assignments and allocations

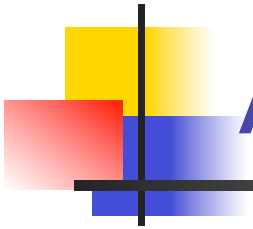
Details of the Proposal

- The criteria for receiving IPv4 addresses is to be modified to include historical IPv4 address holdings
  - RIPE NCC will now consider all IPv4 addresses registered in the RIPE whois database when assessing further allocations



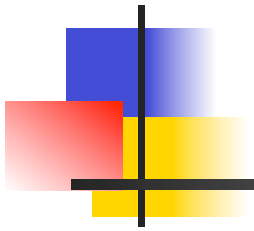
Arguments For:

- Ensures efficient use of scarce IPv4 address space resources to the fullest extent possible
- Use of historical IPv4 addresses will follow current best practices for address management
- The remaining IPv4 free pool will be allocated to LIRs that have a genuine need for IP addresses
- This is responsible usage of IPv4 resources



Arguments Against:

- Organisations will be unable to hoard historical IPv4 address space while at the same time receiving more IPv4 address space from RIPE NCC’s pool



Questions?