Policy SIG Report

APNIC AGM

Friday 29 August 2008

Christchurch, New Zealand

Policy Development Process

1 week

At APNIC meeting

Face to face discussion in SIG sessions

Consensus? — No

Report of SIG decision to AMM

← We are here

Consensus? — No
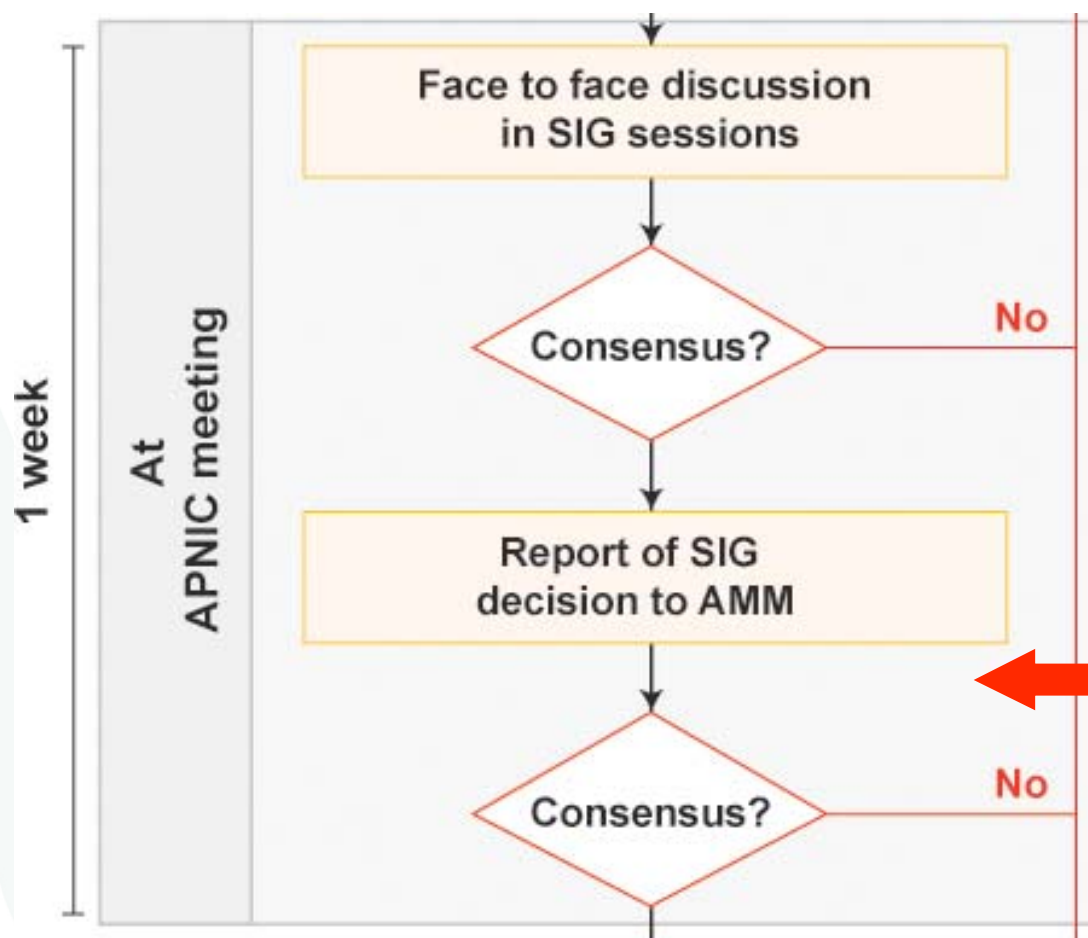
IPv4 Proposals Discussed

Discussion continuing from APNIC 25
- prop-050: IPv4 address transfers
- prop-055: Global policy for the allocation of the remaining IPv4 address space

New proposals
- prop-062: Use of final /8
- prop-063: Reducing timeframe of IPv4 allocations from twelve to six months
- prop-066: Ensuring efficient use of historical IPv4 resources

prop-050: IPv4 address transfers

Problems this proposal aims to address

- Current APNIC policies limit registration of transfers to resources related to mergers and acquisitions of operational networks

- There will continue to be a demand for IPv4 after the exhaustion of the unallocated address pool

- The APNIC resource registry needs to accurately reflect current address distribution information

prop-050: IPv4 address transfers

The Proposal

- Remove APNIC policy restrictions on registrations of IPv4 transfers between current APNIC account holders.

- Address blocks transferred:

    - Must be /24 or larger
    - Must be in APNIC administered range
    - Are subject to all current APNIC policies from the time of transfer

- Source of transfer ineligible to receive IPv4 address blocks from APNIC for 24 months after transfer

prop-050: IPv4 address transfers

- **pol-026-009**: prop-050, "IPv4 address transfers" to be returned to the author and mailing list for further discussion.

prop-055: Global policy for the allocation of the remaining IPv4 address space

The problem…

- Issues each RIR region will face during the exhaustion period vary by region as the level of development of IPv4 and IPv6 are widely different.

- As a result, applying a global co-ordinated policy may adequately address issues in a certain region while it may not work for the others.

prop-055: Global policy for the allocation of the remaining IPv4 address space

The Proposal

- IANA reserves one /8 for each RIR now.

- Later, when IANA receives a request for IPv4 address space that cannot be fulfilled using the remaining IANA IPv4 free pool, IANA will allocate each RIR a single /8 from the reserved block.

- Any remaining /8s in the IANA free pool will then be allocated to the RIR that makes the last request to IANA.

prop-055: Global policy for the allocation of the remaining IPv4 address space

– **pol-026-006**: Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement the proposal prop-055, "Global policy for the allocation of the remaining IPv4 address space"

prop-062: Use of final /8

The problem…

- How should APNIC use the final /8 if prop-055 is implemented?

- How can new networks connected to a dual IPv4/IPv6 Internet after the free pool exhaustion

- What happens if a new disruptive technology needs IPv4?

APNIC

prop-062: Use of final /8

The Proposal

- Reserve the final /8 in the APNIC region for three things:

    - Each new LIR can receive a single minimum allocation
    - Each existing LIR can receive a single minimum allocation
    - Reserve a /16 for potential future technologies that may need IPv4 addresses

prop-062: Use of final /8

- **pol-026-005**: Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement the revised proposal prop-062, "Use of final /8". Revisions to the proposal include:
  - The size of allocations under this proposal be tied to APNIC's minimum allocation size
  - This proposal not be dependent on the successful adoption of prop-055, "Global policy for the allocation of the remaining IPv4 address space"

prop-063: Reducing timeframe of IPv4 allocations from twelve to six months

The problem…

- With the imminent depletion of the free pool, it's possible that networks receiving an allocation to meet their needs for the next 12 months may mean that other networks don't have a chance to get any allocation before the free pool is exhausted

prop-063: Reducing timeframe of IPv4 allocations from twelve to six months

The Proposal

- Make allocations based on a six months needs basis, reducing it from 12 months

prop-063: Reducing timeframe of IPv4 allocations from twelve to six months

- **pol-026-007**: prop-063, "Reducing timeframe of IPv4 allocations from twelve to six months" returned to the Policy SIG mailing list for further discussion.

prop-066: Ensuring efficient use of historical IPv4 resources

The problem…

- While the remaining free pool is gradually being depleted, a lot of historical IPv4 addresses are still being unused.

- When LIRs request more space from APNIC, they do not have to demonstrate that their historical address space is being used.

- LIRs can currently justify resources from the APNIC free pool while still not utilising their historical resources.

prop-066: Ensuring efficient use of historical IPv4 resources

The Proposal

- Include historical resources when calculating an LIR's usage rate.

prop-066: Ensuring efficient use of historical IPv4 resources

- **pol-026-008**: Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement the proposal prop-066, "Ensuring efficient use of historical IPv4 resources"

Four-byte AS number proposals under discussion

prop-061: 32-bit ASNs for documentation purposes

prop-064: Change to assignment policy for AS numbers

prop-065: Format for delegation and recording of 4-byte AS numbers

prop-061: 32-bit ASNs for documentation purposes

The problem…

- There is currently no range of four-byte AS numbers that is dedicated for use in Internet documentation.

- Any AS number used now in documentation may be used by a real network in future, leading to problems.

prop-061: 32-bit ASNs for documentation purposes

The Proposal

- Designate four four-byte AS numbers to be used in documentation.

prop-061: 32-bit ASNs for documentation purposes

- **pol-026-004**: Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement the revised proposal prop-061, "32-bit ASNs for documentation purposes", that a small number of AS numbers from both 16-bit and 32-bit AS pools to be allocated for documentation purposes.

prop-064: Change to assignment policy for AS numbers

The problem…

- There is slow take up of four-byte AS numbers and little vendor support

prop-064: Change to assignment policy for AS numbers

The Proposal

- Add a new date to the schedule for introducing four-byte AS numbers:

    - From 1 July 2009, APNIC assigns:
        - Four-byte AS numbers by default
        - Two-byte AS numbers if a four-byte AS number is demonstrated to be unsuitable

prop-064: Change to assignment policy for AS numbers

- **pol-026-002**: Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement proposal prop-064, "Change to assignment policy for AS numbers".

prop-065: Format for delegation and recording of 4-byte AS numbers

The problem…

- ASDOT is incompatible with a number of operational systems and router configurations.

prop-065: Format for delegation and recording of 4-byte AS numbers

The Proposal

- APNIC adopt the ASPLAIN format for representing four-byte AS numbers.

prop-065: Format for delegation and recording of 4-byte AS numbers

- **pol-026-003**: Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement proposal prop-065, "Format for delegation and recording of 4-byte AS numbers".

Other policy proposals at APNIC 26

- prop-060: Change in the criteria for the recognition of NIRs in the APNIC region

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The problem…

- To recognise a new NIR under current policy, it must have the support of both the community and the relevant government body in the country of the proposed NIR.

- NIRs can be dominated by government interests.

prop-060: Change in the criteria for the recognition of NIRs in the APNIC region

The Proposal

- Allow NIRs to be approved with community approval only.

- New NIRs are approved through a vote by APNIC members.

- Limit government positions on NIR boards.

prop-060: Change in the criteria for the recognition of NIRs in the APNIC region

- **pol-026-001**: The author of prop-060, "Change in the criteria for the recognition of NIRs in the APNIC region" to revise the proposal to address questions raised on the mailing list and at the APNIC 26 Policy SIG.