

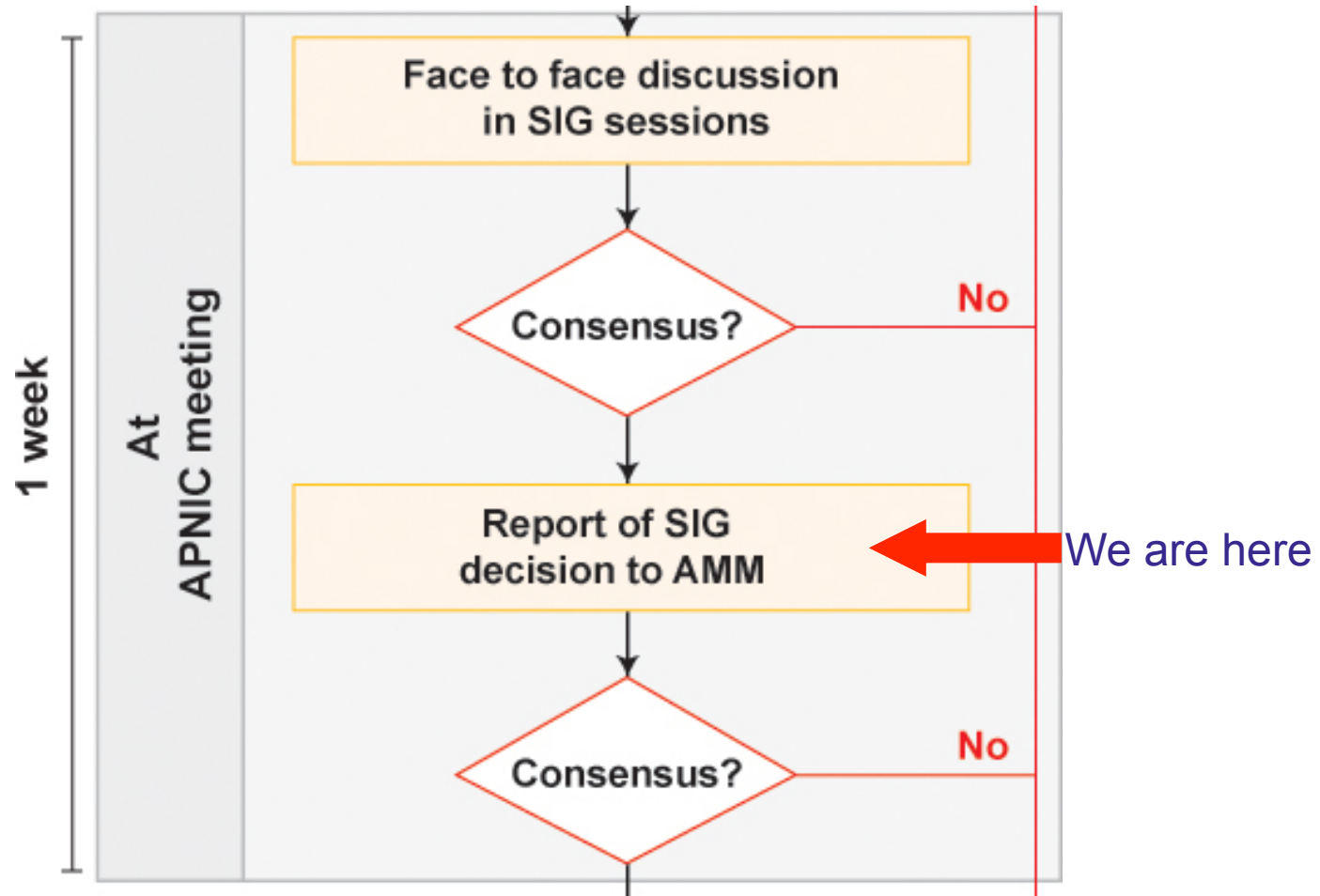
APNIC 32 AMM Policy SIG Report

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Policy Development Process



Review of IPv6 Policy

- Now in 'Stage 3' of IPv4 Exhaustion
- IPv6 Policy now the main area of interest
- Undertake a high-level review of IPv6 policies
- More details soon on Mailing List
- Subscribe at www.apnic.net/policy-sig

Global Policy Prop-069

Action Item: pol-27-02

Pending approval at each remaining stage of the policy development process, the APNIC Secretariat to implement prop-69, "Global policy proposal for the allocation of IPv4 blocks to Regional Internet Registries," with the following clarifications:

- The minimum size for redistributions by IANA to be explicitly documented
- Examples of how IANA would redistribute space to the RIRs to be added

Global Policy Prop-069

The membership of the APNIC Policy SIG recognizes that Prop-069 - Global policy proposal for the allocation of IPv4 blocks to Regional Internet Registries has been superseded by Prop-097 and that Prop-069 should be abandoned.

Proposals under Discussion

- **prop-096:** Maintaining demonstrated needs requirement in transfer policy after the final /8 phase
- **prop-098:** Optimizing IPv6 allocation strategies (simplified)
- **prop-099:** IPv6 Reservation for Large Networks
- **prop-100:** National IP Address Plan - Allocation of country-wide IP address blocks

prop-096 Maintaining demonstrated needs requirement in transfer policy after the final /8 phase

Problems this proposal aims to address:

- APNIC is the only RIR that does not require a demonstrated need for transfers.
- Other RIRs are reluctant to recognize any inter-RIR transfer policy with APNIC.



prop-096 Maintaining demonstrated needs requirement in transfer policy after the final /8 phase

Proposed solution:

- It is proposed that recipients of transfers be required to justify their need for IPv4 address space.
- Consensus Reached in SIG. Require AMM

prop-096 Maintaining demonstrated needs requirement in transfer policy after the final /8 phase

Action:

- **pol-32-01:** Pending approval at each remaining stage of the policy proposal process, APNIC Secretariat to implement proposal prop-098, “Maintaining demonstrated needs requirement in transfer policy after the final /8 phase”.

prop-098 Optimizing IPv6 allocation strategies (simplified)

Problems this proposal aims to address:

- LIRs feel they must fit their entire subscriber base in a single /32.
- Network outages caused by bit math errors. This will lead to disaggregation.
- The HD ratio leaves much to be desired as an address administration tool.

prop-098 Optimizing IPv6 allocation strategies (simplified)

Proposed solution:

- Utilization be measured in 'Provider Allocation Units' - smallest reassignment unit
 - 75% or more utilization, or
 - One or more facilities has reached a 90% utilization and no blocks available to expand

prop-098 Optimizing IPv6 allocation strategies (simplified)

Proposed solution:

- Allow LIRs to request nibble-aligned blocks of any size greater than or equal to /36
 - Default minimum is /32
 - Maximum to accommodate 5 years
 - Subordinate LIR block count as fully utilized

prop-098 Optimizing IPv6 allocation strategies (simplified)

Proposed solution:

- Subsequent allocations expand to the next nibble – existing allocation can be re-sized
- Allocation shall not exceed a /16, but, a provider may receive multiple /16s to meet justified needs
 - LIR is ‘encouraged’ to vacate their old allocations

prop-098 Optimizing IPv6 allocation strategies (simplified)

Action:

- **pol-32-02:** prop-098, “Optimizing IPv6 allocation strategies (simplified)”, returned to the mailing list for further discussion.



prop-099 IPv6 Reservation for Large Network

Proposed solution:

- Reservation request for projected network growth up to 10 years
 - Long-term network plans
 - Environmental factors

prop-099 IPv6 Reservation for Large Network

Proposed solution:

- Reservation expires after 2 years unless re-justified
 - Allocated prefixes registered in whois
 - Reservation documented separately



prop-099 IPv6 Reservation for Large Network

Action:

- **pol-32-03:** prop-099, “IPv6 Reservation for Large Network”, returned to the mailing list for further discussion.

prop-100 National IP Address Plan - Allocation of country-wide IP address blocks

Problems this proposal aims to address:

- APNIC policy does not allow address blocks to be allocated at the economy level
- This proposal calls for adequate IPv6 address space per economy be reserved for future allocations to organizations and stakeholders within that economy.

prop-100 National IP Address Plan - Allocation of country-wide IP address blocks

Proposed solution:

- Analysis and Projection of Requirements
- Reservation of the IPv6 address space for different economies by APNIC

prop-100 National IP Address Plan - Allocation of country-wide IP address blocks

Action:

- **pol-32-04:** prop-0100, “National IP Address Plan - Allocation of country-wide IP address blocks”, returned to the mailing list for further discussion.

Thank you

