

prop-089: Additional criterion for final /8 allocations/assignments

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Introduction

Restrict IPv4 allocations & assignments from the final /8 to those members who are responsibly working to ease the transition period to IPv6.

Summary of current problem

Even today, some ISPs and hosting providers are responding to customer enquiries with *“we have no current plans to deploy IPv6.”*

Such organisations are failing in their *“responsibility to ensure manageable and scalable Internet growth.”*

Proposals in other RIRs

- AfriNIC: Networks receiving IPv4 addresses in second part of “exhaustion phase” will also be delegated IPv6.
- ARIN: “All new addresses must be deployed on dual-stacked interfaces”.
- RIPE: Allocations from final /8 shall only be made to LIRs if they have already received an IPv6 allocation.

Proposal

To qualify for an allocation/assignment of IPv4 addresses from the final /8, an organisation should have a *viable IPv6 deployment*.

Common sense can be applied to that term, without the need for specifying the criteria in minute detail.

“*Viabile IPv6 deployment*” examples

- Public-facing services / hosting:

Each *service* provided on the newly delegated IPv4 addresses should also be accessible by IPv6.

- ISP or network provider:

Default installation for new customers should include functional IPv6, and existing customers should be able to upgrade.

Advantages / Disadvantages

- Reduce “wasted” allocations to those who are clinging to IPv4 without a transition plan.
- Reinforce expectations of IPv6 deployment, thus improving uptake amongst those who have been slow so far.
- For those without IPv6, IPv4 space runs out sooner than it does for those who fulfil their responsibilities set out in the APNIC policies. But it was coming to us all *anyway*.

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Discussion