



Draft Policy 2012-2

IPv6 Subsequent Allocations Utilization Requirement

2012-2 - History

1. Origin: ARIN-prop-159 (Nov 2011)
2. AC Shepherds: Heather Schiller, Cathy Aronson
3. Presented at ARIN 29 – needed more work
4. Presented at ARIN 30 – needed more work
5. Text and assessment online & in Discussion Guide

https://www.arin.net/policy/proposals/2012_2.html

2012-2 – ARIN Staff Summary

- The intent of this proposal is to allow ISPs (that have begun using IPv6 but may not have sufficiently planned for longer term growth) to receive an additional allocation.

2012-2 – Status at other RIRs

No similar proposals/discussions.

2012-2 – Staff Assessment

Staff Comments: Issues/Concerns?

- We believe that the intent of this policy is to allow ISPs who have allocated at least 90% of their space to serving sites to qualify for an additional allocation as long as the block size allocated to each serving site is justified based on the number of customers at the largest single serving site. However, we find the new policy text, "Has allocated more than 90% of their serving site blocks to serving sites, and has sufficient actual utilization at their serving sites to continue to justify the block size being utilized for all serving sites as specified in section 6.5.2." to be unclear and confusing.
- Staff suggests that the text be modified to: "has allocated more than 90% of their total address space to serving sites, with the block size allocated to each serving site being justified based on the criteria specified in section 6.5.2" This would allow block size to be based on the same criteria used to determine block size for the initial allocation.

2012-2 – Legal Assessment

- This policy does not create significant legal issues.



Draft Policy 2012-2

IPv6 Subsequent Allocations Utilization Requirement

2012-2 Problem Statement

- Current IPv6 allocation policy contains artifacts of IPv4 scarcity/slow-start thinking. This proposal attempts to mitigate that by allowing a longer term planning window for IPv6 number resources.

2012-2 Text Part One

- Section 2.14 Serving Site
- When applied to IPv6 policies, the term serving site shall mean a location where an ISP terminates or aggregates customer connections, including, but, not limited to Points of Presence (POPs), Datacenters, Central or Local switching office or regional or local combinations thereof. **It does not require the implementation of such aggregation in routing, only the implementation of an addressing plan that is subnetted along these topological boundaries to support the ability to aggregate.**

[Bold text is new]

2012-2 Text Part Two

- Section 6.5.3. Subsequent Allocations to LIRs
 - a. Where possible ARIN will make subsequent allocations by expanding the existing allocation.
 - b. An LIR qualifies for a subsequent allocation if they meet any of the following criteria:
 - Shows utilization of 75% or more of their total address space
 - Shows utilization of more than 90% of any serving site
 - **Has allocated more than 90% of their serving site blocks to serving sites, and has sufficient actual utilization at their serving sites to continue to justify the block size being utilized for all serving sites as specified in section 6.5.2.**

[Bold text is new]