

Policy Proposal

IPv6 Provider Independent Assignment for End-sites

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Incentive

- the current policy does not allow IPv6 PI address assignment to any 'end-sites'.
- not all LIR's (upstream providers) have IPv6 address space allocations thus end-sites cannot get PA IPv6 address space
- lack of IPv6 transport will compel many 'end-sites' to tunnel. PI will avoid renumbering when v6 transport id available.

Introduction

- This policy allows 'end-sites' to be assigned IPv6 provider independent (PI) addresses.
- 'end-sites'
 - critical Infrastructure providers such as core DNS operators and public Internet eXchange Points (IXP's).
 - include end-users who already have or qualify to get IPv4 PI addresses

Current Situation

- AfriNIC has discussed similar proposals recently during it's last two Open Policy meetings but both proposals have been returned to the public mailing lists for further discussion due to lack of consensus.

Assignment Target

- End-sites which provide Public Internet services for a single administrative organisations' network, regardless of their size.

Assignment Criteria

- The end-site must not be an IPv6 LIR
- The end-site must become an AfriNIC End User Member and pay the normal AfriNIC fee for its' membership category
- The end site must either:
 - be a holder of IPv4 PI address space or
 - qualify for an IPv4 PI assignment from AfriNIC under the IPv4 policy currently in effect.
- The end-site must justify the need for the IPv6 PI address space.

Assignment Criteria...

- The 'end-site' must show a plan to use and announce the IPv6 provider independent address space within twelve (12) months. After that period, if not announced, the assigned IPv6 PI address space should be reclaimed and returned to the free pool by AfriNIC.

PI Address Space

- The provider independent (PI) assignment should be made from a specific block.
- The initial provider independent assignment size to an end-site should be a /48, or a **shorter** prefix if the end-site can justify it.

Current Status

- policy redrafted
- discussed in mailing list (>30days)
- there's consensus on the mailinglist

Effect on AfriNIC

- No direct effect on the existing AfriNIC members, nor changes to the current IPv6 allocation criteria.

Acknowledgment

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The background features a gradient from dark blue on the left to light blue on the right, with several bright, curved white lines that create a sense of motion and depth.

Comments from the community..