



APNIC

Asia Pacific Network Information Centre



# IPv6 allocations to closed networks

*prop-015-v001.txt*

Policy SIG  
APNIC17/APRICOT 2004  
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KL, Malaysia

prop-015-v001: Should APNIC allocate Global Unicast IPv6 Address Space to 'unconnected' network - Microsoft Internet Explorer

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**prop-015-v001: Should APNIC allocate Global Unicast IPv6 Address Space to 'unconnected' networks?**

## Synopsis

This is a proposal to permit APNIC Secretariat continue to allocate global IPv6 space to organisations in accordance with the criteria stated in the 'IPv6 allocation and assignment policy' to both networks that are to be connected to the global IPv6 Internet and to unconnected networks

Summary	
Proposal reference	prop-015-v001
Current status	Under discussion. To be presented at APNIC 17.
Discussion document	<a href="#">Should APNIC allocate Global Unicast IPv6 Address Space to 'unconnected' networks?</a>
Author	<a href="#">APNIC Secretariat</a>
Relevant forum	<a href="#">Address policy SIG</a>
Mailing list	<a href="#">sig-policy</a>

## Proposal history

Activity	Date	Status
Posting to mailing list	19 January 2004	<a href="#">Announced</a>

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# Problem with APNIC-089

- Initial allocation criteria includes:
  - *[Organisation must] plan to provide **IPv6 connectivity** to organizations to which it will assign /48s, by **advertising** that connectivity through its single aggregated address allocation*
- Ambiguous points:
  - Does this include ‘private’ networks *not* connected to *the global Internet*?
  - If not, where do such networks obtain their addresses?
  - Advertising to whom



## Interpretation by Secretariat

- Closed networks have been considered to be within scope of existing policy (in APNIC-089)
  - APNIC Secretariat has made one IPv6 allocation to such a network that met all other initial allocation criteria
- During 2003, Secretariat sought clarification from the APNIC EC



## Reviewing the background:

- Lack of private address space available in IPv6
  - There has been no allocation as in IPv4 yet
    - i.e. RFC1918 - 10/8, 172.16/12, 192.168/16
- Problem with IPv6 “site-local” address
  - Assignment size limited to /48
  - Under discussion but likely to be opposed
  - Large not-connected networks need IPv6 address
    - So do small networks in absence of site-local address

# EC Interim Clarification Notice

- EC published interim clarification notice in Nov 2003
  - Directed Secretariat to continue making such allocations until APNIC OPM
    - <http://www.apnic.net/docs/policy/ipv6-policy-clarification.html>
  - No reference ‘to whom’ such advertisements should be made
    - The advertisement may not be part of global Internet but may be part of private network



# Interpretations in other regions

- ARIN
  - Does not currently make allocations to closed networks
- LACNIC
  - Does not currently make allocations to closed networks
- RIPE NCC
  - Evaluation on a case by case basis



# Proposal

- APNIC IPv6 policy should allow allocations to closed networks
  - providing that if other initial allocation criteria are met







# NIR Considerations

- The outcome of this policy discussion should be applicable to all NIRs equally in APNIC region





# Implementation

- If approved through APNIC policy processes
  - Interim EC notice will expire
  - Immediate (continuing) implementation
- Co-ordination with other RIRs
  - to clarify language and intent of APNIC policy



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# Questions?

