Using 127-bit IPv6 Prefixes on Inter-Router Links

draft-ietf-6man-prefixlen-p2p-00.txt

Miya Kohno, Juniper Networks, Keio Univ.
Becca Nitzan, Juniper Networks
Randy Bush, IIJ
Yoshinobu Matsuzaki, IIJ
Lorenzo Colitti, Google
Thomas Narten, IBM Corporation

Update on "6.Recommendation" 1/2

• Routers MUST support the assignment of /127 prefixes on point-to-point inter-router links.

 When assigning and using any /127 prefixes, the following considerations apply.
 (next page)

Update on "6.Recommendation" 2/2

- a) Addresses with all zeros in the rightmost 64 bits SHOULD NOT be assigned as unicast addresses, to avoid colliding with the Subnet-Router anycast address. [RFC4291]
- b) Addresses in which the rightmost 64 bits are assigned the highest 128 values SHOULD NOT be used as unicast addresses, to avoid colliding with Reserved Subnet Anycast Addresses. [RFC2526]

Ready for last call?

Whether the allowed prefix is limited to /127 or anything longer than /64?