



draft-ietf-v6ops-v6inixp-01

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IPv6 in IXP draft.

- ◆ Summarizes IPv6 deployment details for existing or new IXPs.
- ◆ Result of several consultation with several IXP operators and participants.
- ◆ Includes: switch fabric config, addressing plan, multicast, reverse DNS, Router Server config, services configuration and IXP policies.
- ◆ Accepted as WG item in SFO.



Changes since pre-WG:

- ◆ Add: IXP LAN routing example:
 - ◆ IXP get a /47 from RIR. One /48 to LANs not globally routed (but probably routed inside participants' networks) and one /48 for internal services and globally routed.
- ◆ Addressing section re-visited using right justification.
Example 1:
 - ◆ LAN Prefix: 2001::DB8/64 and participant's ASN 64496.
 - ◆ Before: 2001:DB8::6449:6000:0:1/64
 - ◆ Now: 2001:DB8::6:4496:1/64
- ◆ Re-writing of Multicast section thanks to Stig Venaas.



Multicast Section:

- ◆ **Multicast for ND in “unicast only LANs”.** Particularly important if filters will be applied to prevent broadcast storms in the switch. Multicast packet that should be allowed for ND: MLD join, NS and NA, that include addresses:
 - ◆ all-nodes multicast address (FF02::1).
 - ◆ solicited-node multicast addresses (FF02:0:0:0:0:1:FF00:0000 to FF02:0:0:0:0:1:FFFF:FFFF).
 - ◆ FF02::2 (MLD) and FF02::16 (MLDv2).
- ◆ **Multicast peering and multicast LANs: PIM (and PIM snooping), MP-BGP for PIM RPF support.** Normally a separate LAN is provided for this multicast traffic.



Next Steps:

- ◆ draft 02:
 - ◆ **some typos.**
 - ◆ **security section: comment that some deployment considerations are giving to prevent broadcast storms and DoS attacks to the switch fabric.**
- ◆ WG last-call?



thanks!

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