# May 2020: Consultation on removal of the multicast LAN

LINX is obliged to provide a multicast LAN as per the MoU. Currently the multicast LAN only has two connected ports and we have seen no sign of traffic increasing on this LAN . Most if not all other IXPs do not provide a separate LAN for multicast, and with the deployment of EVPN on LON2 and later on LON1, the need for separation of multicast traffic has diminished. With only two connected ports and low traffic levels the need to maintain a separate LAN for multicast traffic has seemingly diminished. We would therefore like to consult on changes to remove the separate multicast LAN, by making the following changes to the MoU:

1. Allow all multicast traffic on the normal peering LAN.

| Current MoU | Proposed MoU |
|---|---|
| **2.3** Frames forwarded to a member interface which is part of the LINX peering LAN(s) shall not be addressed to a multicast or broadcast MAC destination address except as follows:<br><br>broadcast ARP packets<br>multicast IPv6 Neighbour Solicitation packets<br><br>where a member interface is a member of the<br>LINX multicast VLAN, in which case frames may be forwarded which are destined<br>to multicast group addresses | **2.3** Frames forwarded to a member interface which is part of the LINX peering LAN(s) shall not be addressed to a broadcast MAC destination address except as follows:<br><br>broadcast ARP packets |
| **2.4** Traffic for link-local protocols shall not be forwarded to member interfaces which are part of the LINX peering LAN(s) except for the following:<br><br>ARP<br>IPv6 Neighbour solicitations and advertisements | **2.4** Traffic for link-local protocols shall not be forwarded to member interfaces which are part of the LINX peering LAN(s) except for the following:<br><br>ARP<br>IPv6 Neighbour solicitations and |

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|---|---|
| where a member interface is a member of the LINX multicast VLAN, in which case PIM-SM and MSDP may be run on the interface<br><br>Link local protocols includes but is not limited to:<br>IRDP<br>ICMP redirects<br>IEEE802 Spanning Tree<br>Vendor proprietary discovery protocols (e.g. CDP, EDP)<br>Interior routing protocol broadcasts (e.g. OSPF, ISIS, IGRP, EIGRP)<br>BOOTP/DHCP<br>PIM-SM<br>PIM-DM<br>DVMRP | advertisements<br>PIM-SM<br><br><br>Link local protocols includes but is not limited to:<br>IRDP<br>ICMP redirects<br>IEEE802 Spanning Tree<br>Vendor proprietary discovery protocols (e.g. CDP, EDP)<br>Interior routing protocol broadcasts (e.g. OSPF, ISIS, IGRP, EIGRP)<br>BOOTP/DHCP<br>PIM-DM<br>DVMRP |
| **4.1** All exchange of routes across the LINX network shall be via BGP4, except where a member interface is a member of the LINX multicast VLAN, in which case PIM-SM and MSDP may also be run on that interface. | **4.1** All exchange of routes across the LINX network shall be via BGP4; or in the case where a member interface is used to exchange multicast traffic, PIM-SM and MSDP may also be run on that interface. |

2. Only allow IPv6 multicast on the peering LAN in an effort to encourage adoption.

*Next Steps*

We would like to solicit feedback on the above with the target of presenting this as a formal resolution at a general meeting held at LINX113 in May 2021. The Board will consider amending the proposal taking into account any comments received.

If any LINX member wishes to comment on these changes, please contact the LINX member relations team.