Multicast Support for MAP and lw4over6

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draft-sarikaya-softwire-map-multicast-04
MAP Multicast

Motivation

- MAP IPv6 transition technologies are unicast
- Multicast support approaches for MAP are needed mainly for MAP-E but also MAP-T & 4rd to enable IPv4 hosts to have multicast communication over IPv6 network
- *draft-sarikaya-softwire-map-multicast-04* defines translation for MAP and lw4over6 based multicast support
Translation Multicast - MAP

- On IPv6 network, may use native multicast with MLD

IPv6 Network

MLD Querier on WAN side
MLD to IGMP translator
IPv4 Network side IGMP/PIM Router

IPv4 Network

MAP/4rd BR

Group Management Messages in MLD

Multicast Data in IPv6

Multicast Data in IPv6

IPv4 multicast user

IPv6

Multicast user: IGMP join
CE: MLD join

IPv4 multicast user

IPv6

Multicast source: IPv4 multicast data
BR: IPv6 multicast data

IPv4 multicast user

IPv6

IPv4 multicast user

IPv6
Translation Multicast – LW4over6

- On IPv6 network, assume native multicast with MLD.
Discussion

- Encapsulation or tunneling based multicast no longer supported
  - There were some comments against tunneling based multicast in IETF 90 presentation
Next Steps

- Discuss what can be done