BGP Signaled Multicast

draft-zzhang-bess-bgp-multicast-02
Z. Zhang, L. Giuliano, K. Patel, I. Wijlands, M. Mishra, A. Gulko

draft-zzhang-bess-bgp-multicast-controller-01
Z. Zhang, R. Raszuk, D. Pacella, A. Gulko

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• Multicast tree (labeled or not) signaled with BGP
  • PIM/mLDP-like; receiver-initiated
  • In unlabeled case, set up SPT trees directly even for ASM
    • With BGP based source discovery
    • RPT not used – greatly reduces complexity

• -02 revision uses a new MCAST-Tree SAFI
  • Previously reused C-MCAST SAFI defined in draft-ietf-bess-mvpn-pe-ce
    • draft-ietf-bess-mvpn-pe-ce will not progress any more
Draft-zzhang-bess-bgp-multicast-controller

• BGP signaling used by controllers to set up multicast trees that they calculate

• Using the same messages defined in draft-zzhang-bess-bgp-multicast
  - Some enhancements to Tunnel Encapsulation Attribute

• draft-zzhang-bess-bgp-multicast is signaling from downstream routers towards upstream routers
  - Maybe via Route Reflectos
  - Upstream neighbor determination as per PIM/mLDP

• draft-zzhang-bess-bgp-multicast-controller is from controllers to routers
  - Controllers calculates the trees and routers simply get programmed
Next Steps

• Continue to seek comments

• Seek WG adoption
  • Documents are mature and stable
  • There are customer interests in both methods