BGP Signaled Multicast

draft-zzhang-bess-bgp-multicast-02

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draft-zzhang-bess-bgp-multicast-controller-01

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Draft-zzhang-bess-bgp-multicast

- 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