MVPN/EVPN
C-multicast Routes Enhancements

draft-zzhang-bess-mvpn-evpn-cmcast-enhancements

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IETF114
Background

• Fixes/enhancements for MVPN/EVPN C-Multicast routes
  • C-Multicast routes carry customer multicast state
    • MVPN type-6/7, EVPN type-6
  • An MVPN term but generalized to cover EVPN SMET routes as well
    • SMET: Selective Multicast Ethernet Tag (type-6)

• Initial presentation in IETF96
  • https://youtu.be/ItEAgghMDvE?t=2041

• Last presentation in IETF104
  • For additional content (MVPN Inter-AS Multihoming)
    • https://datatracker.ietf.org/meeting/104/materials/slides-104-bess-08-draft-zzhang-
      bess-mvpn-evpn-cmcast-enhancements-00-00
    • https://youtu.be/0tzTScM6v-Y?t=3536
1.2. MVPN C-Bidir Support with VPN Backbone being RPL
   1.2.1. C-multicast Routes for the MVPN-RPL Method of C-BIDIR support
   1.2.2. Optional use of MVPN-RPL RD with mLDP/PIM Provider Tunnels
   1.2.3. MVPN C-ASM Support without CE Routers
1.3. Inter-AS Propagation of MVPN C-Multicast Routes
1.4. MVPN Inter-AS Upstream PE Selection
1.5. EVPN Selective Multicast Ethernet Tag (SMET) Routes
1.6. Provider Tunnel Segmentation with Explicit-Tracking C-Multicast Routes
   1.6.1. Conventional Tunnel Segmentation
   1.6.2. Selective Tunnel Segmentation with Untargeted Explicit-Tracking C-multicast Routes
Stalled since 2019

• Issues/enhancements were a bit ahead of the time
• We can also blame the pandemic ...
• But now it’s time to move forward
  • In particular, “1.3. Inter-AS Propagation of MVPN C-Multicast Routes” addresses the main problem in draft-duan-bess-mvpn-ipv6-infras
Please ...

- Review the draft and previous presentations
- Join the discussions
  - Long thread on “Re: A new draft for MVPN in IPv6-only network”
  - [https://mailarchive.ietf.org/arch/msg/bess/8JPbw9Zd7_WhPKMD1Zk63GLGkKU/](https://mailarchive.ietf.org/arch/msg/bess/8JPbw9Zd7_WhPKMD1Zk63GLGkKU/)
- Can we put it in the adoption queue?