

# MVPN/EVPN C-multicast Routes Enhancements

draft-zhang-bess-mvpn-evpn-cmcast-enhancements

Jeffrey Zhang, Rober Kebler, Wen Lin, Eric Rosen

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# 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://www.ietf.org/proceedings/96/slides/slides-96-bess-7.pdf>
  - <https://youtu.be/ltEAqbhMDFE?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/OtzTScM6vYg?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?