L2L3 VPN Multicast MIB
(draft-ietf-bess-l2l3-vpn-mcast-mib)

BGP/MPLS Layer 3 VPN Multicast MIB
(draft-ietf-bess-mvpn-mib)

Hiroshi Tsunoda
on behalf of authors of the two documents
Current status

• L2L3 VPN Multicast TC-MIB & L2L3 VPN Multicast MIB (draft-ietf-bess-l2l3-vpn-mcast-mib-9)
  • Separated Textual conventions and actual management objects into different MIB modules
  • Enrich DESCRIPTION clause to improve readability
  • Now revising according to the latest MIB doctor’s review
    • New version will be submitted after the IETF meeting

• BGP/MPLS Layer 3 VPN Multicast MIB (draft-ietf-bess-mvpn-mib-04)
  • Now revising according to the latest MIB doctor’s review
    • Some more considerations on MIB design is required
  • Please review and comments
Purpose of MIB modules

• **L2L3 VPN Multicast TC-MIB & L2L3 VPN Multicast MIB**
  - Providing Textual Conventions to represent tunnel type and identifier
  - Providing P-tunnel information to other MIB modules designed for monitoring and/or configuring L2L3 VPN Multicast

• **BGP/MPLS Layer 3 VPN Multicast MIB**
  - Monitoring operational information of L3VPN multicast on PEs
  - Configuration MVRFs and PMSIs on PEs
  - Notification
    - Creation / Deletion / Modification of MVRF
Coverage and applicability of MIB modules

- BGP/MPLS Layer 3 VPN Multicast MIB currently does not have information objects to represent
  - Counters for
    - malformed PMSI Tunnel attribute
    - malformed PE Distinguisher Label attribute
  - Configurable timer to control the delay that a PE/ASBR/route reflector withdraw C-multicast routes
  - Configuration variables to place limitations on
    - The rate of BGP message
    - The number of S-PMSI A-D routes, Source Active A-D routes
    - How frequently S-PMSI A-D routes, Source Active A-D routes may be originated
    - total number of (C-* ,C-G) and/or (C-S,C-G) states per VRF
    - total number of P-tunnels per VRF used for S-PMSIs
    - total number of P-tunnels traversing a given P routes
What’s next

• Seek input from BESS WG
  • Is there any information that should be included in or removed from these MIB modules?
    • e.g., Flags in PMSI Tunnel Attribute are required information for operation and/or management?
  • Comments on use case scenarios of MIB modules are really helpful
    • *Please watch mailinglist!*

• Update taking into account MIB doctor’s review and inputs from BESS WG