EVPN multicast YANG Model

draft-zhao-pim-evpn-multicast-yang-02

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IETF117
Status

• version 02
  - Updated according to comments
Draft Update 1

- Change multicast-source-address from inet:ipv4-address to inet:ip-address. So that both IPv4 and IPv6 could be covered.

```
augment /evpn:evpn/evpn:evpn-instances/evpn:evpn-instance/evpn:routes:
  +--ro selective-multicast-ethernet-tag-route* []
    |  +--ro rd-rt* [route-distinguisher]
    |   |  +--ro route-distinguisher rt-types:route-distinguisher
    |   |  +--ro vpn-target* [route-target]
    |   |    +--ro route-target rt-types:route-target
    |  |  +--ro ethernet-tag? uint32
    |  +--ro multicast-source-address? inet:ipv4-address inet:ip-address
    |  +--ro multicast-group-address? rt-types:ipv4-multicast-group-address
```
• Change multicast-group-address from rt-types:ipv4-multicast-group-address to rt-types:ip-multicast-group-address. So that both IPv4 and IPv6 could be covered.

augment /evpn:evpn/evpn:evpn-instances/evpn:evpn-instance/evpn:routes:
  +--ro selective-multicast-ethernet-tag-route* []
   |  +--ro rd-rt* [route-distinguisher]
   |   |  +--ro route-distinguisher rt-types:route-distinguisher
   |   |  +--ro vpn-target* [route-target]
   |   |  +--ro route-target rt-types:route-target
   |  +--ro ethernet-tag? uint32
   |  +--ro multicast-source-address? inet:ipv4-address
   |  +--ro multicast-group-address? rt-types:ipv4-multicast-group-address
   rt-types:ip-multicast-group-address
• Change maximum-response-time from uint32 to uint16. This is to keep consistent with query-max-response-time defined in IGMP & MLD YANG Model (RFC8652). They both specify the maximum time allowed before sending a responding report.

```yml
augment /evpn:evpn/evpn:evpn-instances/evpn:evpn-instance/evpn:routes:
  +--ro multicast-leave-synch-route* []
      +--ro rd-rt* [route-distinguisher]
          | +--ro route-distinguisher rt-types:route-distinguisher
          | +--ro vpn-target* [route-target]
          |   +--ro route-target rt-types:route-target
          +--ro ethernet-segment-identifier? es:ethernet-segment-identifier-type
          +--ro ethernet-tag? uint32
          +--ro multicast-source-address? inet:ip-address
          +--ro multicast-group-address? rt-types:ip-multicast-group-address
          +--ro originator-ip-prefix? inet:ip-prefix
          +--ro maximum-response-time? uint32 unit16
```
Details of the three new BGP EVPN routes.

```plaintext
module: ietf-evpn-multicast

augment /evpn:evpn/evpn:evpn-instances/evpn:evpn-instance:
  ---ro sel-mcast-advertisement? boolean
  ---rw evpn-igmp-proxy? boolean
  ---rw evpn-mld-proxy? boolean

augment /evpn:evpn/evpn:evpn-instances/evpn:evpn-instance/evpn:routes:
  ---ro selective-multicast-ethernet-tag-route* []
    | ---ro rd-rt* [route-distinguisher]
    |   | ---ro route-distinguisher rt-types:route-distinguisher
    |   | ---ro vpn-target* [route-target]
    |   |   | ---ro route-target rt-types:route-target
    |   | ---ro ethernet-tag? uint32
    |   | ---ro multicast-source-address? inet:ip-address
    |   | ---ro multicast-group-address? rt-types:ip-multicast-group-address
    |   | ---ro originator-ip-prefix? inet:ip-prefix
    | ---ro multicast-membership-report-synch-route* []
    |   | ---ro rd-rt* [route-distinguisher]
    |   |   | ---ro route-distinguisher rt-types:route-distinguisher
    |   |   | ---ro vpn-target* [route-target]
    |   |   |   | ---ro route-target rt-types:route-target
    |   |   | ---ro ethernet-segment-identifier? es:ethernet-segment-identifier-type
    |   |   | ---ro ethernet-tag? uint32
    |   |   | ---ro multicast-source-address? inet:ip-address
    |   |   | ---ro multicast-group-address? rt-types:ip-multicast-group-address
    |   |   | ---ro originator-ip-prefix? inet:ip-prefix
    | ---ro multicast-leave-synch-route* []
    |   | ---ro rd-rt* [route-distinguisher]
    |   |   | ---ro route-distinguisher rt-types:route-distinguisher
    |   |   | ---ro vpn-target* [route-target]
    |   |   |   | ---ro route-target rt-types:route-target
    |   |   | ---ro ethernet-segment-identifier? es:ethernet-segment-identifier-type
    |   |   | ---ro ethernet-tag? uint32
    |   |   | ---ro multicast-source-address? inet:ip-address
    |   |   | ---ro multicast-group-address? rt-types:ip-multicast-group-address
    |   |   | ---ro originator-ip-prefix? inet:ip-prefix
    | ---ro maximum-response-time? uint16
```
Next Step

• Welcome more comments