IGMP/MLD Proxy YANG Model

draft-ietf-pim-igmp-mld-proxy-yang-05

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Status

- version 5

 - Updated according to Yang Doctor’s comments and other comments

Draft Update 1

- Set filter-mode as mandatory.

```
leaf filter-mode {
      type enumeration {
        enum "include" {
          description
            "In include mode, reception of packets sent
             to the specified multicast address is requested
             only from those IP source addresses listed in the
             source-list parameter";
        }
        enum "exclude" {
          description
            "In exclude mode, reception of packets sent
             to the given multicast address is requested
             from all IP source addresses except those
             listed in the source-list parameter.";
        }
      }
      mandatory true;
      description
        "Filter mode for a multicast group,
         may be either include or exclude.";
    } …
```

Draft Update 2

- Change the type of group-address from inet:ipv4-address into rt-types:ipv4-multicast-group-address in the IGMP Proxy tree.

IGMP Proxy

```
augment /rt:routing/rt:control-plane-protocols/rt:control-plane-protocol:
  +--rw igmp-proxy {igmp-proxy}?
     +--rw interfaces
        +--rw interface* [interface-name]
           +--rw interface-name           if:interface-ref
           +--rw igmp-version?            uint8
           +--rw enable?                  boolean
           +--rw sender-source-address?   inet:ipv4-address
           +--ro group* [group-address]
              +--ro group-address    ~~inet:ipv4-address~~ □ rt-types:ipv4-multicast-group-address
              +--ro up-time?         uint32
              +--ro filter-mode      enumeration
              +--ro source* [source-address]
                 +--ro source-address          inet:ipv4-address
                 +--ro up-time?                uint32
                 +--ro downstream-interface* [interface-name]
                    +--ro interface-name    if:interface-ref
```

- Change the type of group-address from inet:ipv6-address into rt-types:ipv6-multicast-group-address in the MLD Proxy tree.

MLD Proxy

```
augment /rt:routing/rt:control-plane-protocols/rt:control-plane-protocol:
  +--rw mld-proxy {mld-proxy}?
     +--rw interfaces
        +--rw interface* [interface-name]
           +--rw interface-name           if:interface-ref
           +--rw mld-version?             uint8
           +--rw enable?                  boolean
           +--rw sender-source-address?   inet:ipv6-address
           +--ro group* [group-address]
              +--ro group-address ~~inet:ipv6-address~~ □ rt-types:ipv6-multicast-group-address
              +--ro up-time?         uint32
              +--ro filter-mode      enumeration
              +--ro source* [source-address]
                 +--ro source-address          inet:ipv6-address
                 +--ro up-time?                uint32
                 +--ro downstream-interface* [interface-name]
                    +--ro interface-name    if:interface-ref
```

Draft Update 3

- Update prefixes from imp into igmp-mld-proxy according to YANG DOCTOR’s comments.

```
leaf filter-mode {
 module ietf-igmp-mld-proxy {
  yang-version 1.1;
  namespace "urn:ietf:params:xml:ns:yang:ietf-igmp-mld-proxy";

  prefix imp  igmp-mld-proxy;

  import ietf-inet-types {
    prefix inet;
  }

  …
```

Next Step

- Apply for WGLC
- Any more comments?