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
• 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

```plaintext
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.

```yaml
leaf filter-mode {
    module ietf-igmp-mld-proxy {
        yang-version 1.1;

        prefix imp ▸ igmp-mld-proxy;

        import ietf-inet-types {
            prefix inet;
        }
    }
}
...
Next Step

• Apply for WGLC
• Any more comments?