SFC YANG model


Ting Ao
Ran Chen
Wei Wei
Overview

• A SFC YANG model is needed in SFC WG which is a milestone in the charter
  • Mar 2019 - YANG models for SFF and classifier

• This YANG model is based on RFC7665 and RFC8300
• This YANG model focuses on the configuration on the SFF, and state information of SFF as well
Design Tree for SFC YANG model

- SFF Configuration

```
+++rw sfc-config
    +++rw sfc-enable?  boolean
    +++rw sfc-domain*  [sfc-domain-id]
        +++rw sfc-domain-id  uint32
        +++rw ip4-prefix?  inet:ip4-prefix
        +++rw ip6-prefix?  inet:ip6-prefix
        +++rw sfc-sfp*  [sfpid si]
            +++rw sfpid  uint32
            +++rw s1  uint16
            +++rw metric?  uint16
            +++rw (nexthop-trans-type)?
                +++rw nh-node-type?  sfp-nexthop-type
                +++rw remote-ipv4?  inet:ipv4-address
                +++rw nh-node-type?  sfp-nexthop-type
                +++rw remote-ipv6?  inet:ipv6-address
                +++rw nh-node-type?  sfp-nexthop-type
                +++rw remote-mac?  yang:mac-address
                +++rw nh-node-type?  sfp-nexthop-type
                +++rw remote-ipv4?  inet:ipv4-address
                +++rw source-ip?  inet:ipv4-address
                +++rw destination-ip?  inet:ipv4-address
                +++rw vni  uint32
            +++rw last-sff  boolean
```
Currently, only configuration information can be read. Solicit your comments for other state information.
Next Step(1)

• We got some important comments. We really appreciate that.
• We plan to update:
  • Add to support the configuration for the SFF list.
  • Add to provide interface-list that should support.
  • Add to support a new transport type: MPLS
  • Re-structure the YANG model to make it to be more extensible.
Next Steps(2)

• Any comments, questions are always welcome and greatly appreciated.

• We welcome many of you join us on this work.