Yang Data Model for L2 Topology

draft-dong-i2rs-yang-l2-network-topology

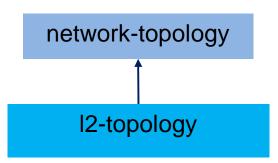
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Introduction

- The requirement of collecting network information "under layer-3" is specified in
 - . draft-medved-i2rs-topology-requirements and
 - . draft-amante-i2rs-topology-use-cases
- This document defines data model for L2 network topology

L2 Data Model

- " Based on the generic network-topology model in
 - . draft-clemm-i2rs-yang-network-topo
- Augments network-topology with
 - . I2-topology-type
 - . I2-topology-attributes
 - . I2-node-attributes
 - . I2-link-attributes
 - . 12-termination-point-attributes



L2 Yang Model

```
module: 12-topology
augment /nt:network-topology/nt:topology/nt:topology-types:
   +--rw 12-topology!
augment /nt:network-topology/nt:topology:
   +--rw 12-topology-attributes
      +--rw name? string
      +--rw flag* flag-type
augment /nt:network-topology/nt:topology/nt:node:
   +--rw 12-node-attributes
      +--rw name?
                                    string
      +--rw description?
                                    string
      +--rw chassis-id?
                                    vang:mac-address
      +--rw management-address*
                                   inet:ip-prefix
      +--rw management-vid?
                                    vlan
      +--rw capabilities-support?
                                    bits
     +--rw capabilities-enable?
                                    bits
     +--rw flag*
                                    flag-type
augment /nt:network-topology/nt:topology/nt:link:
   +--rw 12-link-attributes
      +--rw name? string
      +--rw rate? decimal64
     +--rw flag* flag-type
augment /nt:network-topology/nt:topology/nt:node/nt:termination-point:
   +--rw 12-termination-point-attributes
      +--rw description?
                                  string
      +--...
```

Next Steps

- Solicit comments and suggestions
- " Revise the draft
 - . Only Ethernet in -00 version, may need to consider other L2 network types and characteristics
 - . Relationship with L3 model?
 - . Relationship with L2 services?