Yang Data Model for Layer 3 TE Topologies

draft-ietf-teas-yang-l3-te-topo-05

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Changes Since Last Revision

- Alignments with latest dependencies
  - Aligned with draft-ietf-teas-yang-te-types
    - Module “ietf-te-types”.
    - Module “ietf-te-packet-types”.
  - Aligned with draft-ietf-teas-yang-te-topo
    - Module “ietf-te-topology”.
    - Module “ietf-te-topology-state”.

- Resolving YANG doctor’s review comments
  - Editorial fixes have been completed.
  - Some discussions are on-going
    - The relationship between L3 TE Topology and L3 Topology.
Augmentation Hierarchy

- L3 TE Topology augments L3 Topology and references TE Topology.
- Packet extension module augments ietf-te-topology.
Link Performance Metrics

- Discussion was brought up in IETF104
  - Accurate one-way delay measurement requires clock synchronization.
  - If no clock synchronization, systems may use two-way measurement to estimate one-way metrics
    - The two-way metrics may provide useful information.
- The two-way metrics have been kept on link
  - The grouping in “ietf-te-packet-types” is used.

```plaintext
augment /nw:networks/nw:network/nt:link/tet:te
    /tet:te-link-attributes:
        +--ro performance-metrics-one-way
            |   +--ro one-way-delay?          Uint32
        .......
        +--ro performance-metrics-two-way
            |   +--ro two-way-delay?          Uint32
        .......
```
Next Steps

- Resolve YANG doctor's review comments.
- Welcome further reviews and suggestions.
- Working Group Last Call after completing above.
Yang Data Model for SR and SR TE Topologies

draft-ietf-teas-yang-sr-te-topo-05

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SR (Segment Routing) Topology

- Augment layer 3 network topology model

Diagram:

Layer 3 Network Topology
ietf-l3-unicast-topology

Segment Rougint Topology
ietf-sr-topology
SR (Segment Routing) TE Topology

- Multiple inheritance:
  - Is both SR topology and layer 3 TE topology model.
  - Uses multiple network types: “l3-te” and “sr”.

```
SR Topology
ietf-sr-topology

Layer 3 TE Topology
ietf-l3-te-topology

SR TE Topology
```
Changes Since Last Revision

- Alignments with latest dependencies
  - Aligned with the latest draft-ietf-spring-sr-yang-13.

- Resolving YANG doctor’s review comments
  - Editorial fixes have been completed.
  - Some discussions are on-going
    - Constraints on some data values of augmented SR configuration attributes, which may be better added to draft-ietf-spring-sr-yang.
    - Use of URI format for object identifiers.
Next Steps

- Resolve YANG doctor's review comments.
- Welcome further reviews and suggestions.
- Working Group Last Call after completing above.