A YANG Data Model for Layer 1 Types

CCAMP WG, IETF 110
draft-ietf-ccamp-layer1-types-10

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Document Objective

- Specify the common identities, groupings and typedefs that used in Layer 1 Networks;
- Most Frequent used groupings:

**otn-link-bandwidth**

```
+--:(otn)
    +--rw odulist* [odu-type]
      +--rw odu-type identityref
      +--rw number? uint16
```

**otn-path-bandwidth**

```
+--:(otn)
    +--rw odu-type? identityref
```

**otn-label-range-info**

```
+--rw range-type? otn-label-range-type
+--rw tsg? identityref
+--rw odu-type-list* identityref
+--rw priority? uint8
```

**otn-label-hop**

```
+--:(otn)
    +--rw otn-tpn? otn-tpn
    +--rw tsg? identityref
    +--rw ts-list? string
```

**otn-label-start-end**

```
+--:(otn)
    +--rw (range-type)?
    +--:(trib-port)
      +--rw otn-tpn? otn-tpn
      +--:(trib-slot)
        +--rw otn-ts? otn-ts
```

**otn-label-step**

```
+--:(otn)
    +--rw (range-type)?
    +--:(trib-port)
      +--rw otn-tpn? otn-tpn
    +--:(trib-slot)
      +--rw otn-ts? otn-ts
```
Changes from IETF 109

• Added text description on the specified groupings;
• Cleaned up the references, in both the draft and the modules;
• Addressed comments from YANG Doctor Review, and from the mailing list;
Next Step

- Request for WG LC;
  - May need YANG doctor joint review with OTN topology, OTN tunnel;
YANG Model for OTN Topology

CCAMP WG, IETF 110
draft-ietf-ccamp-otn-topo-yang-12

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Summary of Changes from IETF 109

• Text Changes:
  • Added descriptions about the grouping usage;
  • Cleaned up the security considerations, harmonized with RFC8795;

• YANG model Changes:
  • Harmonized with latest layer1-types;
Prefix – a generic question

– Which convention to use for topology (e.g., wsont or wson-topo)?
– Which convention to use for tunnel (e.g., wson-tunnel, wsontnl or wson-tnl)?
– Which convention to use for flexi-grid (e.g., flexi-grid-topo or flexig-topo or flexg-topo)?
– Which convention to use for ETH-TE (e.g., eth-te-topo, eth-tet, eth-te-tunnel, eth-te-tnl, eth-tetnl)?
Status & Next Step

• All the YANG Doctor Review Comments are addressed;

• Request for WG LC;
  – Probably after we decide the prefix;

• Model available at: https://github.com/haomianzheng/IETF-ACTN-YANG-Model/tree/master/YANG/ccamp/otn-topology
Summary of Changes since IETF 109

• Text Changes:
  • Re-wrote the text in abstraction;
  • Revise the text in security considerations to align with the latest ietf-te (generic tunnel model);

• YANG Model changes:
  • Remove the src/dst-client signal as we have a separate client-signal module;
Status & Next Step

• Align with ietf-te after its IESG processing;
  – The only left comments in YANG Doctor’s review;
  – Not technical, only YANG syntax;

• Select the prefix;

• Request for WG LC;
  – If not blocked by the two issues above;

• Model available at:
Thank you!