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

YANG Model for OTN Tunnel

CCAMP WG, IETF 110

draft-ietf-ccamp-otn-tunnel-model-12

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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:
  https://github.com/haomianzheng/IETF-ACTN-YANG-Model/tree/master/YANG/ccamp/otn-tunnel

Thank you!