A YANG Data Model for Layer 0 Types - Extension
draft-esdih-ccamp-layer0-types-ext-01

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Background

- **draft-ietf-ccamp-layer0-types-09** has been reduced in scope, before publication, to only cover spectrum management related aspects to cover the impairment free optical drafts e.g. the YANG module ietf-wson-topology defined in draft-ietf-ccamp-wson-yang.

- This document complements the content of “layer0-type”
  - reconciling the different transponder related parts of different models (WSON, flexgrid, dwdm-if-param, optical impairments)
  - covering also impairment aspect of optical networks (e.g. draft-ietf-ccamp-optical-impairment-topology-yang)
  - using common YANG structures and definitions (typedefs, identities, groupings).

- The life cycle of this draft will be in parallel of draft-ietf-ccamp-layer0-types and will be updated with the content of layer0-type as soon as it will reach publication as well as wson-topology draft, changing the name as layer0-type. (see next slide for reference)
Status of the new document

• Added new other YANG structures (groupings, identity..) in particular used by draft-ietf-ccamp-optical-impairment-topology-yang and in prospective by draft-ietf-ccamp-dwdm-if-param-yang.
  • Added new identities for power equalization
  • Moved definitions of the fiber-type identities
  • Added new grouping for penalties related to polarization dependent loss
  • Added new grouping for C+L band frequency range
  • Change definition of “otsi-carrier-bandwidth” to describe more the bandwidth (or portion of the spectrum) required by a specific Carrier
  • Introduced new attributes related to otsi-carrier-bandwidth :
    • Nyquist-spacing-factor, roll-off, xtalk-penalty
Next Steps

• WG adoption: poll for WG adoption is expecting to start in the coming days, when IPR polling is completed.

• Add other YANG structures (grouping, identities, etc) as needed promoting the sharing of the same YANG structures among L0 YANG models in CCAMP