A YANG model to manage the optical interface parameters for an external transponder in a WDM networks

draft-ietf-ccamp-dwdm-if-param-yang-06

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Motivation & Problem statement

Problem:
• Supporting several combinations of DWDM interface parameters with interdependency between each other
• Yang models definition according to existing draft like: draft-ietf-ccamp-wson-iv-info, draft-ietf-ccamp-wson-iv-encode and RFC6566
• This model augment the IETF interface model
• Alignment with:
  • draft-ietf-ccamp-optical-impairment-topology-yang
  • draft-ietf-ccamp-layer0-types

Motivation:
• Provide a consistent way to plan and operate wavelength Interfaces with netconf/yang
• Complement the draft-ietf-ccamp-optical-impairment-topology-yang models
Changes from previous version

• Changed from the previous version:
  • Rename some parameters to align with other models
  • Improved the parameters description
  • Added / updated mode and mode-id to support:
    • Standard modes
    • Organizational modes
    • Explicit modes
Open Issues:

Provisioning mode vs. supported modes vs. current mode:

How to provision a mode definition?

1. Option 1: all parameters: r/w and r/o
2. Option 2: How to model parameters changed by mode selection but not changeable individually?

Option 1 may be confusing when provisioning due to r/w and read only parameters mixing

Option 2 could be more effective but requires several models definition.
Next Steps

• Refine the ITU-T definitions and models

• synch with:
  • draft-ietf-ccamp-optical-impairment-topology-yang
  • draft-ietf-ccamp-layer0-types
  • draft-esdih-ccamp-layer0-types-ext when it will be WG document

• Align on the terminology
  • Align on the contents: the three drafts are complementary

• Work for the last call
Thank You!