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

draft-dharini-netmod-dwdm-if-yang-00
Former draft-dharini-netmod-g-698-2-yang-04

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Document History

- **IETF 90**: First Draft presented to netmod WG
- **IETF 91**: Align yang model with SNMP draft
- **IETF 92**: incorporate Yang doctor‘s suggestions
- **IETF 93**: Alignment with discussions at IETF 92
- **IETF 93**: replaced draft-dharini-netmod-g-698-2-yang-04 by draft-dharini-netmod-dwdm-if-yang-00 for a more generic approach
External Transponder Model

Ss = reference point at the DWDM network element tributary output
Rs = reference point at the DWDM network element tributary input
Lx = Lambda x
OM = Optical Mux
OD = Optical Demux
OADM = Optical Add Drop Mux
Motivation & Problem statement

Problem:
• External Transponders used in several applications
• Interface model for colored side of transponders not defined

Motivation:
• Provide a standard way to operate wavelength Interfaces with netconf/yang
Status

• Yang Module “ietf-ext-xponder-wdm-if” is defined as an extension to ietf interfaces.

• Changes since IETF93
  – ITU-T SG15 agreed on the use case: added use case aligned with draft-dharinigert-ccamp-DWDM-if-lmp-00
  – Authors extended the OTN Information Model of G.874.1 to include power measurement and control.
  – Modified wavelength central frequency definition
  – Fixed minor syntax issues
Next Steps

• Keep alignment with related effort in CCAMP

• Focus on operations aspects