Framework for DWDM interface Management and Control

draft-ietf-ccamp-dwdm-if-mng-ctrl-fwk-04

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Motivation

- The deployment of DWDM interfaces outside the DWDM network leads to the following issues:
  - Interfaces and DWDM equipment may be implemented by different vendors, so there is a need for a common parameter set defining the line side of the network.
  - The network and the terminal equipment need at least to exchange interface characteristics, operational state and verify the inter-layer connectivity quality.
- A multivendor packet-optical network requires a common network model to ensure an efficient operation and management of the network.
- Deeper integration to achieve a higher degree of automation in network operation and a more efficient interworking between IP and DWDM layer.
Document Scope

- The document covers management and control/management plane aspects for single channel DWDM interfaces
- This document describes use cases and requirements for the control and management of single channel optical interfaces
- The purpose is to identify the necessary information elements and processes for the given architecture.
- The focus is on automating the network operation process irrespective on how it is triggered
- Guidance for the following drafts:
  - draft-dharinigert-ccamp-dwdm-if-lmp
  - draft-dharini-ccamp-dwdm-if-param-yang
Solution initially in scope.

EMS – Element Management System
NMS – Network Management System
Modifications in version 04

- New version was submitted in March
- Requirements section updated.
- Addressed the comments from the chairs
- Re-phrasing and error correction
- Improved readability, deleted some paragraphs (unnecessary text)
Next steps

- Discussion on the list, requesting feedback from the WG
- Authors think that the doc is ready for WG last call