Models to manage DWDM interface parameters

draft-galikunze-ccamp-dwdm-if-snmp-mib-00.txt

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Motivation & Problem statement

The Problem:

• DWDM interfaces are often fitted outside the DWDM network, the network and the client layers need to exchange information on the Interface characteristics and operational state.

• Interface model for colored side of transponders not defined.

GOALS of the draft:

• Provide a standard way to retrieve/set the DWDM parameters like the application code, the power and the frequency from to DWDM interfaces not located in the DWDM network.

• Provide standard way to retrieve/set the optical parameters not included in the application code.

• Support EMS/NMS/SDN controllers to access the optical parameters.

• Enable a common and simple way to share information on optical parameters across vendors and operators.
Contents of the drafts

- draft-galikunze-ccamp-dwdm-if-snmp-mib-00.txt

The Draft is an extension of the RFC3591 to support

- Reference to draft-kdkgall-ccamp-dwdm-if-mng-ctrl-fwk-01
- Central frequency
- Single-channel application identifiers
- Number and list of Supported Single-channel application identifiers
- Current Laser Output power
- Current Laser Input power
- Output Power setting
- Vendor Specific Application Code
Changes from last meeting

draft-galikunze-ccamp-g-698-2-snmp-mib

• Changes since IETF93
  – The file name and title from: draft-galikunze-ccamp-g-698-2-snmp-mib
  – Added Reference to draft-kdkgall-ccamp-dwdm-if-mng-ctrl-fwk-01
  – Removed use cases, now described in the FWK draft.
  – Modified the ITU recommendation references
Next Steps

- Realign the Parameters to new ITU-T Rec. when available (e.g. 100G i/f parameters)
- Add Flex Spectrum parameters / MIB
- Promote the draft to WG documents