Models to manage DWDM interface parameters

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

Gabriele Galimberti   Cisco Systems
Ruediger Kunze   Deutsche Telekom
Lam, Hing-Kam   Alcatel-Lucent
Dharini Hiremagalur   Juniper Networks
Gert Grammel   Juniper Networks
John Drake   Juniper Networks
Luyuan Fang   Microsoft
Gary Ratterree   Microsoft

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 and 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

I E T F

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