

Models to manage G.698.2 parameters

draft-galikunze-ccamp-g-698-2-snmp-mib-12.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

- ITU-T G.698.2 defines the Application Codes and their optical parameters to operate a DWDM system in a Black Link approach
- ITU-T G.694.1 providing the Lambda definition
- ITU-T G.872 and G.874.1 are considered as additional reference

GOALS of the draft:

- Provide a standard way to retrieve/set the ITU-T application code, the power and the frequency.
- 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
- Allow Client and DWDM equipment to exchange information on DWDM i/f parameters

Contents of the drafts

- draft-galikunze-ccamp-g-698-2-snmp-mib-12.txt

The Draft is an extension of the RFC3591 to support

- ITU-T G.698.2 and
- ITU-T G.694.1
- Central frequency (see G.694.1 Table 1)
- Single-channel application identifiers (see G.698.2)
- 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 IETF92

- ITU-T SG15 agreed on the use case: added use case aligned with draft-dharinigert-ccamp-g-698-2-imp-11
- Authors collaborate extending the OTN Information Model of G.874.1 to include power measurement and control.
- Modified the Power monitoring parameters
- Modified wavelength central frequency definition

Next Steps

- Realign the Parameters to new ITU-T Rec.
- Keep the interactions to ITU-T alive to realign the draft to new Recommendation editions
- Add Flex Spectrum parameters / MIB
- Promote the draft to WG documents