IETF 89
London

SNMP MIBs to manage
G.698.2 parameters for Dense Wavelength Division
Multiplexing (DWDM) Optical Line Systems

draft-galikunze-ccamp-g-698-2-snmp-mib-06.txt

Gabriele Galimberti   Cisco Systems
Ruediger Kunze   Deutsche Telekom
Lam, Hing-Kam   Alcatel-Lucent
Dharini Hiremagalur   Juniper Networks

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 giving us the Lambda definition

GOAL of the drafts:

- 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 (or simple browsers) to access the optical parameters
- Give a common simple way to share information on optical parameters across the vendors and operators

Document History

- IETF 84-00: first submission

- IETF 85-01: explanatory changes

- IETF 86-02: included parameter objects

- IETF 87-03: split draft into standard and non-standard extensions:
  - draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt
    - Includes standard application codes, Transceiver power and frequency (or bandwidth)
  - draft-galikunze-ccamp-opt-imp-snmp-mib-00.txt
    - Includes all optical parameters defined in G.698.2 and extensions such as status information.

- IETF 88-05: clean-up of draft-galikunze-ccamp-g-698-2-snmp-mib-05.txt: Substantial WG support for the work

Feedback from ITU-T

- According to ITU-T representatives the optical parameters included in the "application code" defined in G.698.2 + Transceiver power + the frequency is enough to determine a transceiver characteristics and to check the optical impairments

- ITU-T Q6/SG15 opposed to add more parameter to G.698.2

- ITU-T doesn't want to force vendors and operator to be compliant to a huge number of parameters

- The ccamp agreed to follow the ITU-T recommendation to speed the draft to WG doc.

Status

- Changed from previous version:
  - Clean-up of text to avoid ambiguity

- Kept alignment with http://tools.ietf.org/html/draft-dharinigert-ccamp-g-698-2-lmp-06.txt

Next Steps

- Refine the parameter contents / extension and SNMP MIB structure upon comments
- Add Flex Spectrum parameters / MIB
- Keep the interactions to ITU-T alive to realign the draft to new Recommendation editions
- The authors believe this draft is ready to be adopted as WG document