SNMP MIBs to manage G.698.2 parameters

draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt

draft-galikunze-ccamp-opt-imp-snmp-mib-00.txt

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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

Contents of the drafts

The two drafts are an extension of the RFC3591 to support the set of ITU-T G.698.2 and ITU-T G.694.1 parameters.

Based on ccamp/ITU-T meeting in Orlando on optical impairments and their modelling, we decided to focus the drafts:

- draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt

  To define the MIB of: application code, Transceiver power and frequency (or bandwidth)

- draft-galikunze-ccamp-opt-imp-snmp-mib-00.txt

  To define the MIB of: all the optical parameters defined in G.698.2 and some performance monitoring with the exclusion of the parameters already supported by the previous draft.

The two drafts are complementary and, together, cover the draft-galikunze-ccamp-g-698-2-snmp-mib-02.txt MIB.

Why we split the document

- 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
- Some audience disagreed on this point
- ITU-T doesn’t want to force vendors and operator to be compliant to a huge number of parameters
- The WG agreed to follow the ITU-T recommendation but also to give the possibility to define the MIB for all parameters.

Changes from last meeting

- changed the document name :

  To : draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt

  New document: draft-galikunze-ccamp-opt-imp-snmp-mib-00.txt

- Modified:

  draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt

  – Removed all the optical parameters (G.698.2) and PM except: application code, Power. frequency

  draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt

  – Containing al the G.698.2 optical parameters and PM except: application code, Power. Frequency

Next Steps

- Refine the parameter contents / extension and SNMP MIB structure upon comments
- Add Flex Spectrum parameters / MIB
- Realign the Parameters to new ITU-T Rec.
- Promote the draft to WG document :

  draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt

  draft-galikunze-ccamp-opt-imp-snmp-mib-00.txt
- Keep the interactions to ITU-T alive to realign the draft to new Recommendation editions

QUESTION

- Freeze the document (draft-galikunze-ccamp-g-698-2-snmp-mib-03.txt) content with available parameters and set?
- Keep the document (draft-galikunze-ccamp-opt-imp-snmp-mib-00.txt) alive to cover the new parameters as soon as they are available ?