WSON Optical Interface Class

draft-martinelli-wson-interface-class-02

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Overview

- What is about: different way to solve the WSON signal compatibility (but open to other optical properties).

- First presented in IETF81-Quebec with fairly good amount of comments.
- Evolved through 01 (not presented) and 02.
- New authors joined the ID (Lyndon, Daniele, Cyril).

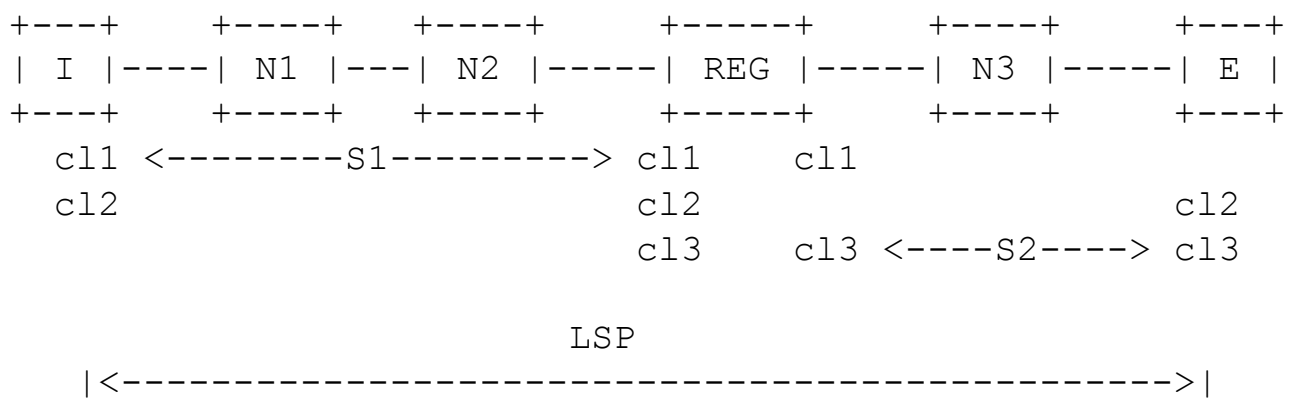
Modification Summary

- Refined sections 3.1 and 3.2: Concepts and Procedures.
- Section 3.3 Encoding:
  - Compatible with ITU application code
  - Support Vendor proprietaries classes (not private).
- Added Appendix A to show how encoding will looks like in WSON case.

Optical Interface Class Concept

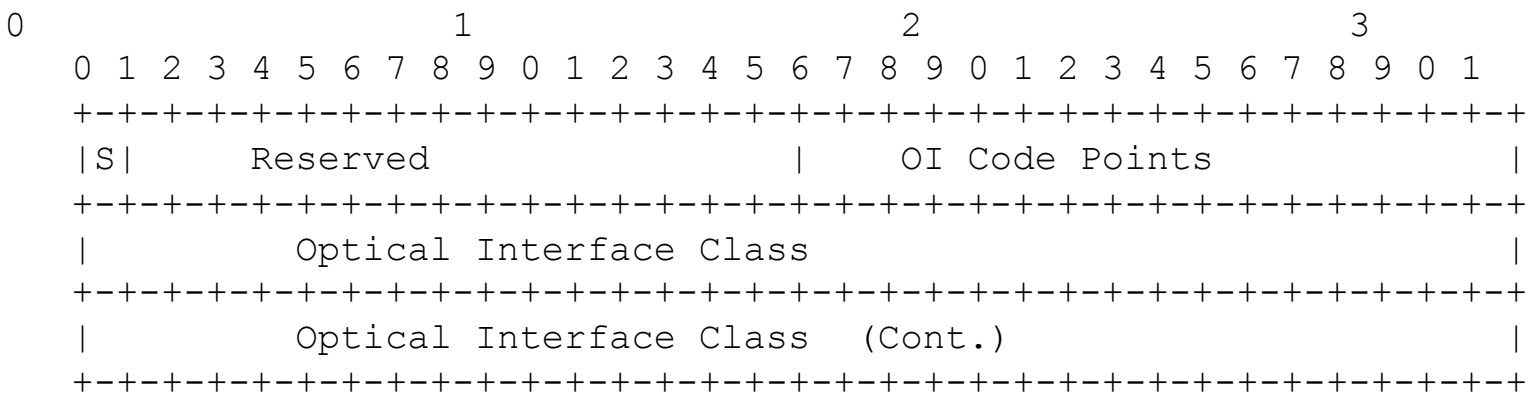
- Fixed format, no explicit reference to optical parameters (like FEC, Modulation Format, etc.).
- Protocol Operations don't need to implement optical knowledge.
- Protocols extensions independent from optical technology evolution.

Procedures



- Interfaces (I, E, REG) likely support more than one class: cl1, cl2, cl3
- Optical segments (S1 and S2) must have same classes at the end points.

Encoding



- S=0, CP = 1 Enterprise specific classes
- S=1, Standard classes:
  - CP = 1, ITU application code G.698.1
  - CP = 2, ITU application code G.698.2

Next Steps

- What WG think about it?
- In case of positive feedback, extending WSON info-model and encoding to comply with this?
- Still to solve:
  - Details how make access to class sematic (e.g. MIBs / Directory Services / etc.)