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CCAMP-Q6/15 Questions

WSOON Impairments

- What impairment data are relevant/stable for control plane to collect for its path computation
 - Are the computational approaches defined in G.680 a reasonable basis for our work?
 - Is our use of G.680 /G.697 Appendix V defined parameters reasonable?
 - What other documents should we be referencing?

G.698.2 Related

- Are the currently identified set of managed parameters
 - Reasonable?
 - Sufficient?

Managed parameters

PARAMETERS	Get/Set	Reference
Minimum channel spacing	G	G.698.2 S.7.1.1
Bit rate/line coding of opt. trib. signals	G,S	G.698.2 S.7.1.2
FEC Coding	G,S	G.975
Maximum bit error ratio (BER)	G	G.698.2 S.7.1.3
Fiber type	G,S	G.698.2 S.7.1.4
Wavelength Range	G	G.694.1 S.6
Wavelength Value	G,S	G.694.1 S.6
Vendor Transceiver Class	G	N.A.
Single-channel application codes	G	G.698.2 S.5.3

Table 1: General parameters

PARAMETERS	Get/Set	Reference
MAX and min mean channel output power	G,S	G.698.2 S.7.2.1
Min and MAX central frequency	G	G.698.2 S.7.2.2
MAX spectral excursion	G	G.698.2 S.7.2.3
MAX transmitter (residual) disper.	G	G.698.2 S.7.2.7
OSNR penalty		
MAX side mode suppression ratio, min	G	G.698.2 S.7.2.6
channel extinction ratio, Eye mask		
Current Laser Output power	G,S	N.A.

Table 2: parameters at Ss

Managed parameters

PARAMETERS	Get/Set	Reference
MAX and min (residual) chromatic dispersion	G	G.698.2 S.7.3.2
Min optical return loss at Ss	G	G.698.2 S.7.3.3
MAX discrete reflectance between Ss and Rs	G	G.698.2 S.7.3.4
MAX differential group delay	G	G.698.2 S.7.3.5
MAX polarization dependent loss	G	G.698.2 S.7.3.6
MAX inter-channel crosstalk	G	G.698.2 S.7.3.7
MAX interferometric crosstalk	G	G.698.2 S.7.3.8
MAX optical path OSNR penalty	G	G.698.2 S.7.3.9
MAX ripple	G	G.698.2 S.7.3.1

Table 3: parameters between Ss and Rs

PARAMETERS	Get/Set	Reference
MAX and min mean input power	G	G.698.2 S.7.4.1
Min optical signal-to-noise ratio (OSNR)	G	G.698.2 S.7.4.2
Receiver OSNR tolerance	G	G.698.2 S.7.4.3
MAX reflectance at receiver	G	G.698.2 S.7.4.4

Table 4: mandatory parameters at Rs

G.698.2 Related (cont)

- Can Q6 provide guidance on which parameters is work ongoing: 10G, 40G, 100G, 400G, 1T?
- How will transceivers that meet a set of application codes be represented?
 - E.g. A receiver that can operate under over an extended range?
- What future management parameters will be introduced to support:
 - Colourless/Directionless/Contentionless ROADMs?
 - Flex Spectrum, Super Channel, full coherent networks?

Flexi-Grid Related

- Four Questions (see slides-86-ccamp-29)
 - What is the relation between optical signal layer (OCh) and media layer?
 - How do we characterize links and nodes?
 - Resource allocation
 - Additional link properties?

Flexi-Grid Related (cont.)

- Super channel
 - What is the current view/status on definition of an entity containing more than one frequency slot?
 - Based on current view/definition(s), is there any restriction on treating more than one frequency slot as a single entity for control/management plane functions?

(ref: [slides-86-ccamp-34](#))