Summary of changes made to Cl 158

Structural & Editorial

Changes to Cl 158 (Included in remein_3cp_4_1904)

- Restructured to align with 159/160
- Removed magenta highlights from:
  - PMD names; 10GBASE-BLR, ..BMR, ..BER, ..BxR, 158.1 text, parts of 158.4.1, Tables 158-12/13 (Table headers, Signaling speed (nominal), and Signaling speed variation from nominal (max)), Tables 158-20, 21, and 22, 158.9.3, & Section 158.10 to158.12
- Added description of OLT/ONU (D/U) varients
- Removed sections 158.1.1.1 to 158.1.1.3.3, added xRef to Cl 49.2
  - Change text in 158.1.1 “PMD sublayer service interface” (similar to 159.2)
  - Renumber 158.1.1 to be 158.2
  - Added 158.1.1 “Bit error ratio” with text modeled after 159.1.1
- Aligned Table 158-4 to match 159-2/3
- Moved 158.4.6 after 158.4.7
- Retitle 158.10 & reorder subsequent clauses (details follow)
- Pg50, ln 5, Cl 158.9.1.2 Change:
  - "These patterns have fundamental frequencies between approximately 452 MHz (10GBASE-W) and 1289 MHz (10GBASE-BxR)." to:
    "The patterns have fundamental frequencies of 1289 MHz.“
- Additional editorial changes (xRef fixes, etc.)

Proposed changes to Cl 158 (not included)

- Replace Table 158-1 with a copy the 10G entries from proposed Table 157-1
- Make 158.4.7 PMD global transmit disable function mandatory
  (see remein_3cp_1_1905)
- 158.4.9 receive fault should be mandatory.
- Remove sections 158.5 “PMD to MDI optical specifications for 10GBASE-S” & 158.7 “PMD to MDI optical specifications for 10GBASE-BER” retaining section 158.6 with all three PMD optical specs in one section per Editor's Note.
- Duplicate Tables 158-12 and 158-13. Label one set for -D PMDs and the other for -U PMDs.
- Reorder 158.9 & sub-clauses (details follow)

158.10

(included in remein_3cp_4_1905)

- From Title:
  Environmental specifications
- Reorder from:
  - 158.10 Environmental specifications
  - 158.10.1 General safety
  - 158.10.2 Laser safety
  - 158.10.3 Installation
  - 158.11 Environment
  - 158.11.1 Electromagnetic emission
  - 158.11.2 Temperature, humidity, and handling
  - 158.12 PMD labeling requirements
- To Title:
  Safety, installation, environment, and labeling
- Reorder to:
  - 158.9 Safety, installation, environment, and labeling
  - 158.9.1 General safety
  - 158.9.2 Laser safety
  - 158.9.3 Installation
  - 158.9.4 Environment
  - 158.9.5 Electromagnetic emission
  - 158.9.6 Temperature, humidity, and handling
  - 158.9.7 PMD labeling requirements

158.9 (NOT included in remein_3cp_4_1905)

- From:
  - 158.9 Optical measurement requirements
  - 158.9.1 Test patterns
  - 158.9.1.1 Test-pattern definition
  - 158.9.1.2 Square wave pattern definition
  - 158.9.2 Center wavelength, spectral width, and side mode suppression ratio (SMSR) measurements
  - 158.9.3 Average optical power measurements
  - 158.9.4 Extinction ratio measurements
  - 158.9.5 Optical modulation amplitude (OMA) test procedure
  - 158.9.6 Relative intensity noise optical modulation amplitude (RINxOMA) measuring procedure
  - 158.9.7 Transmitter optical waveform
  - 158.9.8 Receive sensitivity measurements
  - 158.9.9 Stressed receiver conformance test
  - 158.9.10 Transmitter and dispersion penalty (TDP)
  - 158.9.10.1 Reference transmitter requirements
  - 158.9.10.2 Channel requirements
  - 158.9.10.3 Reference receiver requirements
  - 158.9.10.4 Test procedure
  - 158.9.11 Measurement of the receiver 3 dB electrical upper cutoff frequency
- To:
  - 158.8 Optical measurement requirements
  - 158.8.1 Test patterns
  - 158.8.1.1 Test-pattern definition
  - 158.8.1.2 Square wave pattern definition
  - 158.8.2 Center wavelength, spectral width, and side mode suppression ratio (SMSR) measurements
  - 158.8.3 Average optical power measurements
  - 158.8.4 Optical modulation amplitude (OMA) test procedure
  - 158.8.5 Transmitter and dispersion penalty (TDP)
  - 158.8.5.1 Reference transmitter requirements
  - 158.8.5.2 Channel requirements
  - 158.8.5.3 Reference receiver requirements
  - 158.8.5.4 Test procedure
  - 158.8.6 Extinction ratio measurements
  - 158.8.7 Transmitter optical waveform
  - 158.8.8 Relative intensity noise optical modulation amplitude (RINxOMA) measuring procedure
  - 158.8.9 Receive sensitivity measurements
  - 158.8.10 Stressed receiver conformance test
  - 158.8.11 Measurement of the receiver 3 dB electrical upper cutoff frequency

Thank You

Motion#

Move to accept the changes to Clause 158 included in remein_3ca_4_1905.pdf and the additional proposed changes outlined on slides 3 and 5 of remein_3ca_7_1905.pdf

Moved: Duane Remein

Second:

For: ___ Against: ___ Abstain: ___

Motion Technical (≥ 75%) Motion Passes Fails by voice without opposition