Clause 30 and 45 additions

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Management clauses 30 and 45

- Every new PMD has small additions to clauses 30 and 45

- For the most part, these are to add the new PMD types into the lists of port types, and to update section references

- This contribution lists all the additions that are needed by .3dk

- The approach used is to look at clause 30 and 45 from .3cp, and then do the natural extension to include 100GBase-BRxx

Clause 30.5.1.1.2 aMAUType

Insert the following types into the "APPROPRIATE SYNTAX" section of 30.5.1.1.2 after 100GBASE-ER
as follows:

APPROPRIATE SYNTAX:

...

100GBASE-BR10-D One single-mode fiber OLT PHY supporting a distance of at least 10 km as specified in Clause 168

100GBASE-BR10-U One single-mode fiber ONU PHY supporting a distance of at least 10 km as specified in Clause 168

100GBASE-BR20-D One single-mode fiber OLT PHY supporting a distance of at least 20 km as specified in Clause 168

100GBASE-BR20-U One single-mode fiber ONU PHY supporting a distance of at least 20 km as specified in Clause 168

100GBASE-BR40-D One single-mode fiber OLT PHY supporting a distance of at least 40 km as specified in Clause 168

100GBASE-BR40-U One single-mode fiber ONU PHY supporting a distance of at least 40 km as specified in Clause 168

Clause 45.2.1

- Table 45-3: No change
- PMA/PMD type selection: Need to add 6 codes to a "Control" register
  - CL 45.2.1.27 "PMA/PMD control 3" seems to have space
  - Add the following in the next 6 available codepoints
  - x x x x x x x = 100GBASE-BR40-U PMA/PMD
  - x x x x x x x = 100GBASE-BR20-U PMA/PMD
  - x x x x x x x = 100GBASE-BR10-U PMA/PMD
  - x x x x x x x = 100GBASE-BR40-D PMA/PMD
  - x x x x x x x = 100GBASE-BR20-D PMA/PMD
  - x x x x x x x = 100GBASE-BR10-D PMA/PMD

Clause 45.2.1.7

- In the transmit fault description location table, add row:
  - 100GBASE-BR10, 100GBASE-BR20, 100GBASE-BR40   168.5.8
- In the receive fault description location table, add row:
  - 100GBASE-BR10, 100GBASE-BR20, 100GBASE-BR40   168.5.9
- In both cases, find the most appropriate insertion point

Clause 45.2.1.8

- In the transmit disable description location table, add row:
  - 100GBASE-BR10, 100GBASE-BR20, 100GBASE-BR40   168.5.6
- Find the most appropriate insertion point

Clause 45.2.1.27b

- Insert six lines in the table

- 1.35.11 100GBASE-BR40-U ability   1 = PMA/PMD is able to perform 100GBASE-BR40-U
0 = PMA/PMD is not able to perform 100GBASE-BR40-U   RO

- 1.35.10 100GBASE-BR40-D ability   1 = PMA/PMD is able to perform 100GBASE-BR40-D
0 = PMA/PMD is not able to perform 100GBASE-BR40-D   RO

- 1.35.9   100GBASE-BR20-U ability   1 = PMA/PMD is able to perform 100GBASE-BR20-U
0 = PMA/PMD is not able to perform 100GBASE-BR20-U   RO

- 1.35.8   100GBASE-BR20-D ability   1 = PMA/PMD is able to perform 100GBASE-BR20-D
0 = PMA/PMD is not able to perform 100GBASE-BR20-D   RO

- 1.35.7   100GBASE-BR10-U ability   1 = PMA/PMD is able to perform 100GBASE-BR10-U
0 = PMA/PMD is not able to perform 100GBASE-BR10-U   RO

- 1.35.6   100GBASE-BR10-D ability   1 = PMA/PMD is able to perform 100GBASE-BR10-D
0 = PMA/PMD is not able to perform 100GBASE-BR10-D   RO

- Add subsections 45.2.1.27b.(7-12), with text similar to subsections 1-6, changing 50G to 100G

Proposal

- As proposed in the associated comment, we should add the new material to clauses 30 and 45

- Obviously, the editor should have the discretion to make the additions in the best possible way, also keeping in mind that we need to adapt into the latest version of the 802.3 standard

Thank you

Any questions?