Informal Minutes

Dec 2019 teleconference

Frank Effenberger

Administrative

- Meeting was called to order 10:00, 19 Dec 2019
- Attendees included:
  - Frank Effenberger, Futurewei
  - Craig Pasek, Cisco
  - Yuanqiu Luo, Futurewei
  - Antonio Tartaglia, Ericsson
  - Micheline Lambert, Exfo
  - Lemon Geng, ?
  - Ruoxu Wang, ?
  - Fabio Bottoni, ?
  - Raymond Nering, Cisco
  - Geoff Thomson, self
  - Kent McCammon, AT&T
  - Rick Pimpanella, ?
  - Vince Ferretti, Corning
  - Helen Xu, Huawei
  - Xinyuan Wang, Huawei
  - Shan Wey, ZTE
  - (If you attended and are not listed above or your entry is imcomplete, please contact me)
- The various IEEE 802 policies were read
- There were no patent declarations made at the meeting

Optical level spreadsheet

- This reviewed an excel spreadsheet that contains all our optical tables
  - The purpose of this is to put all the values on a single page, so they can be checked, and (eventually) the mathematical relationships between them can be checked
- One major suggestion was to merge the downstream and upstream tables into a unified set of tables
  - This is reasonable, since (except for the wavelength) all the values are the same
  - The current draft has these pairs of tables, and they already have diverged (inadvertently) from being the same
  - It is always good practice to specify a certain value once. This was agreeable on the call. A comment will be submitted to request this reorganization
- The source of the 10G BR40 Rx levels are not clear
  - Indeed, they were developed as part of a contribution to D1.0 to meet the BR40 budget with the BR10 transmitter

Status of ITU-T G.9806 10G optical specs

- This presented the 10G optical tables found in the ITU counterpart recommendation
- The good news is that most of the values are close (within a dB or so)
- It is noticed that there are these small differences
  - The ITU scheme of specification uses OPP, while the IEEE scheme uses TDP
- An action was taken to reconcile these two sets of values
  - Shan Wey will work this issue with interested parties

Shorter distance proposal

- This presentation observed that in current 4G wireless deployments
  - A large portion (57%) is less than 100 meters
  - The next big breakpoint (41%) is 400 meters
  - Virtually all links are less than 2 km
- This suggests that the 10 km pmd might be overkill for many applications
- In some non-standard 2 km products, the following design is used
  - The fiber loss budget is perhaps 4 dB, but the Tx-Rx power budget stays at 6.3dB
  - The extra power margin allows the use of cheaper Tx (FP instead of DFB, or overclocking of optics)
- It was observed that our PAR scope contains “of at least 10 km”
  - Thus, the adoption of a shorter reach optic will require a PAR change
- The chair will approach David Law about this issue, and see if it should turn into a CFI, or if it can be folded into 802.3cp