



MEDIATEK

ERL Related Comments in 802.3ck D1p2

Mau-Lin Wu, MediaTek

IEEE 802.3ck Task Force



Outline

- Removal of Duplicated Information for ERL
- Other COM parameter values for C2M

Removal of Duplicated Information for ERL

- In C163, 120F, & 120G, the ERL (min.) values are duplicated
 - One is in the row of “Effective return loss (ERL) (min.)” in the tables of “Summary of transmitter (or receiver) specifications”
 - Another one is in the description of the paragraphs to cover ERL, which are titled as “Transmitter (or Receiver) ERL”
- Proposal
 - For the paragraph including ERL description, we don’t need to duplicate the same ERL (min.) value here. We could refer to the value in the tables of “Summary of transmitter (or receiver) specifications”
- For example (C613) – TX ERL
 - Original: (C163.9.1.1, L45 at Page 178)
 - “Transmitter ERL at TP0a shall be greater than or equal to TBD dB.”
 - Proposal
 - “Transmitter ERL at TP0a shall be greater than or equal to the ERL (min.) value specified in Table 163-5.”
- We can do the same to other related clauses
 - C163.9.2.1, 120F.3.1.1, 120F.3.2.1, 120G.3.1.3, 120G.3.2.2, 120G.3.3.1, 120G.3.4.2

Other COM parameter values for C2M

- We need to confirm the referenced COM parameter tables for ERL calculation for C2M
 - 120G.3.1.3 Host output ERL
 - “ERL of the host output at TP1a is computed using the procedure in 93A.5 with the values in Table 120G-2. Parameters that do not appear in Table 120G-2 take values from Table **TBD**.”
- Table 120G-9 had been used for eye opening calculation
 - Table 120G-9 – Eye opening reference receiver parameter values
- Proposal
 - Adopt 120G-9 for ERL calculation
 - The same for module output, host input, & module input as well



everyday genius