## P802.3 D3.1 clauses 136 and 137 ERL-related comment consensus proposal

## In clause 136:

- 1. Completely remove differential RL specifications for transmitters and receivers. Consensus to make ERL normative and remove differential RL specifications Retain common mode RL specifications.
- 2. Remove / make informative / keep RL specifications for Cable Assembly.

Straw Poll. ET-1. I support the following (Chicago rules).

- A ERL normative no RL spec
- B ERL normative RL informative
- C ERL normative RL normative
- D ERL informative RL normative (Draft 3.1)
- E ERL deleted. RL normative. (Draft 3.0).

A 15 B 21 C 0 D 8 E 0

Add an editor's note that the need for retaining the informative RL specification is under review.

Straw poll Have editor's note Yes 9 No 10

Based on this straw poll and the straw poll ET-1 Consensus is that ERL is to be normative and differential RL informative with no editor's note. Common mode RL remains normative.

3. Remove / change (to TBD) SNR\_ISI specification.

Replace SNR\_ISI with ERL.

Change SNR ISI pass/fail limit No support for this option.

Consensus. SNR\_ISI is to be deleted.

- 4. For Host Rx and Host Tx consensus for rho x=0.44
- 5. For Host Rx Consensus for ERL minimum = 14.5dB with an editor's note that the ERL value is to be confirmed.
- 6. For Host Tx.
  - a. Fixed value. Consensus to go with "b".
  - b. Value adjusted by Pmax/Vf. Consensus to use an adjusted value with editor's note that values of equation to be confirmed. Equation to be as on slide 14 of Dudek\_3cd\_01\_0318
- 7. Consensus to make ERL for cable assemblies minimum 11 dB and rho\_x=0.44. Add Editor's note that the value of 11dB is to be confirmed.
- 8. Change N to 100/300 (choose one) for Tx/Rx ERL calculation. Consensus for N=300.
- 9. Define N as 1000 for cable assembly ERL calculation delay of cable is 5ns per meter. 3 meter =15ns. We want 30ns is equivalent to approx 1000UI Consensus to use N= 1,000

## In clause 137:

- 1. Consensus is to completely remove differential RL specifications for transmitters and receivers making ERL normative. Add an exception "There are no requirements for differential return loss" to the list on page 251
- 2. Remove / make informative / keep differential RL specifications for channels
  - a. Make ERL normative remove differential RL specification

b. Make ERL normative make differential RL specification informative.

Straw Poll. ET-3 Chicago rules I would support option a 21 option b 10 Based on this straw poll adopt a.

- 3. Replace SNR\_ISI specification with ERL. Consensus to remove SNR\_ISI
- 4. for Tx and Rx ERL rho\_x=0.44 Consensus rho\_x=0.44
- 5. Consensus: ERL normative for Tx with minimum 16.1 dB Add editor's note that the value is to be confirmed
- 6. Consensus: ERL normative for Rx, with minimum 16.1 dB. Add editor's note that the value is to be confirmed
- 7. Consensus: Make ERL normative for channel, rho\_x=0.44. Add editor's note that rho\_x value is to be confirmed.
- 8. Consensus: Make ERL minimum 10dB for channel. Add editor's note that the value is to be confirmed
- 9. Consensus Change N to 100 for Tx/Rx ERL calculation
- 10. Consensus Change N to 300 for channel ERL calculation.