

# **Common Mode 3<sup>nd</sup> Proposal 103,104,105**

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# IEEE 802.3 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force January 12, 2022, ad-hoc meeting

- ❑ Reference: mellitz\_3ck\_adhoc\_01\_011222
- ❑ Summary: Unresolved proposal. Much discussion but ran out of time during consensus building.

# Proposal 3a: Replace CMS RMS with $V_{\text{CMPP}}$

Comments: # I-103, # I-104, and # I-105

- ❑  $V_{\text{CMPP}} = 233 \text{ mV}$  (table 162-10, #I-103)
- ❑  $V_{\text{CMPP}} = 213 \text{ mV}$  (table 120G-1, #I-104 and table 120G-3, #I-105)
- ❑ Note LF/HF was not included in these comments
  - LF/HF and correlated vs. uncorrelated adjustments could be addressed when more data is available.

Proposal 3b: Replace CMS RMS with  $V_{\text{CMPP}}$   
and separate LF/HF

Comments: # I-103, # I-104, and # I-105

- ❑ **Separate CM measurements into low and high frequency**
- ❑ **Low frequency CM measurements / uncorrelated**
  - $V_{\text{CMPP\_LF}} < 40 \text{ mV}$  (table 162-10, #I-103, table 120G-1, #I-104 and table 120G-3, #I-105)
- ❑ **High Frequency CM measurements /correlated**
  - $V_{\text{CMPP\_HF}} < 80 \text{ mV}$  (table 162-10, #I-103, table 120G-1, #I-104 and table 120G-3, #I-105)

Suggestion from Feedback from Adeo Ran

**Thank You!**