

P802.3dj COM Parameter Value Proposal – KR/CR

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Reference EQ Focus Points

- Setting reference EQ parameter values is important to determine many aspects of the specification
- A wide range of COM parameter values were used for analysis
- We propose to focus on several key COM parameters first:
 - # of pre/post RXFFE taps and type (fixed vs. floating)
 - Eta_0
- Other COM parameters and values can be determined later

Parameter Values in Recent Contributions

Contribution	RXFFE (pre/pst)	Eta_0
Lit_3dj_01a_2405	Pre: 6 Pst: (A) 60 fixed, MLSE = 0 (B) 24 fixed + 2x4 floating, MLSE = 0 (C) 16 fixed, MLSE = 1 (penalty TBD)	6E-9
Lim_3dj_01_2405	Pre: 6 Pst: 24 fixed + 4x5 floating, MLSE = 1 (penalty TBD)	5E-9

Proposal – CR/KR

- For 200G/lane CR/KR PHYs, set:
 - $\text{Eta}_0 = \text{TBD}$
 - # RXFFE taps
 - Number of pre-cursor taps (d_w) = TBD
 - Number of fixed-position taps (N_{fix}) = TBD
 - Number of floating tap groups (N_g) = TBD
 - Number of taps per floating tap group (N_f) = TBD
 - Highest allowed tap index (N_{max}) = TBD

Summary

- Setting reference EQ parameter values is important to determine many aspects of the specification
- These values are a BIG initial step to the closing of hundreds of TBDs in the electrical portions of the specification
- More work to do!

Backup