COM Commit Requests: 4p6_1, 4p6_2, 4p6_3

Rich Mellitz, Samtec

August 13, 2024, COM ad hoc

Commit Requests for COM 4.7

❑ [4p6_1] Change MLSE_U1_c_178A code module to align with shakiba_3dj_01_2407
- Submitter: Rich Mellitz

❑ [4p6_2] Change MLSE_U1_c_178A code module to align with healey_3dj_01a_2407
- Submitter: Rich Mellitz

❑ [4p6_3] Change read_ParamConfigFile code module to align clean up package syntax in configuration spreadsheet to no longer require dummy Zp and Zc entries
- Submitter: Rich Mellitz

❑ Adjust support files
- adjust read_ParamConfigFile for new commands
- Add to comments to file zzz_list_of_changes.m

Commit request 4p6_1

❑ Added parameter.

- N_tc is trunc in shakiba_3dj_01_2407 slide 6 ff representing sequence truncation. Units are number of symbols considered for MLSE
  - Truncation will be not be used unless N_tc is specified in the configuration spreadsheet

N_tc	18		MLSE truncatIon

❑ If delta COM computes to less than 0, the message ''MLSE truncation failed. Try increasing N_tc' is reported and delta COM of zero will be used.

Commit request 4p6_2

❑ Added parameter.

- Q_budget_adj is regular expression of a 2 element row vector for the coefficients of the equation on slide 6 of healey_3dj_01a_2407 defining $Q(COM_{DFE})$

Q_budget_adj	[0.57 0.1]		0 to disable

- Where $Q(COM_{DFE})$ = Q_budget_adj(1) - Q_budget_adj(2) * COM_{DFE}
- Q is 0 if Q_budget_adj is not specified in the configuration spreadsheet

IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet Task Force

Commit request 4p6_3

❑ Remove the requirement of dummy package specifications in the configuration spreadsheet. (grey colored cells no longer required)

COM 4.6

COM 4.7beta1

IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet Task Force

5

COMPARISON REPORTS

❑ MLSE_U1_c_178A 4.7beta1 comparisonReport.html

❑ read_ParamConfigFile 4.7beta1 comparisonReport.html

❑ zzz_list_of_changes 4.7beta1 comparisonReport.html

Thank You!