Chief Editor's Report

Matt Brown, Independent, 802.3ck Editor-in-Chief

P802.3ck Editorial Team

P802.3ck Task Force

September 2019

Editorial Team

Editor	Duties
Matt Brown	Chief Editor, C2M/C2C AUI annexes, legacy clauses
Arthur Marris	Clauses 30/45/73 and other legacy clauses
Howard Heck	CR Clause
Chris Diminico	CR Clause cable assembly subclauses/annexes
Phil Sun	KR Clause
Mark Gustlin	New 100G FEC (if adopted)
Jeff Slavick	Advisor and reviewer for logic clauses
Mike Dudek	Advisor and reviewer for CR/KR/AUI clauses
Adee Ran	Advisor and reviewer for CR/KR/AUI clauses

Please keep these guys in the loop as you develop your baseline specifications.

Activities Since July 2019 Meeting

- 10 baseline specification documents have been adopted.
  - http://www.ieee802.org/3/ck/public/baselines/index.html
  - In July, the following baselines were adopted:
    - Removal of microQSFP for CR
    - Mated test fixtures for CR and C2M
    - Backplane (KR)
- Draft 0.3 has been implemented as a preliminary view of the draft.

Draft 0.3

- A copy has been posted on the 802.3ck web site private area.
- There will be no formal review.
- Amendments to most legacy clauses have been implemented.
  - Annex 93A is being updated per CR, KR, C2M, and C2C adopted baselines.
- Status of new clauses and annexes is summarized on Slide 5.
- Updates from Draft 0.2 to 0.3 include:
  - update Annex 93A and Clause 163 per walker_3ck_01d_0719 slides 6 to 12
  - remove microQSFP from Annex 163C
  - update Annex 162B per diminico_3ck_01a slides 24, 26, 27

Draft Structure Assumptions

- Reusing current PCS, FEC, PMA
  - Potential for new 100G FEC for 100GBASE-CR1/KR1
- New CR PHY
- New KR PHY
- New C2C AUI
  - Potentially two versions (but looks like we're heading to one version)
    - short-reach C2C (based on C2M)
    - long-reach C2C (based on KR)
- New C2M AUI
- First new clause number is 161 as provided by Adam Healey

New Clauses and Annexes

#	Clause/Annex Subject	Status
120F[1]	100G/200G/400G C2C-L AUI	No baseline adopted
120G[1]	100G/200G/400G C2C-S AUI	No baseline adopted
120H	100G/200G/400G C2M AUI	Partial baseline adopted, implemented
161[2]	New 100G FEC	No baseline adopted
162	100G/200G/400G CR PMD	No general baseline adopted; training baseline adopted, implemented based on training baseline and editorial discretion
162A	100G/200G/400G CR test points, budget, etc.	No baseline adopted
162B	100G/200G/400G CR test fixtures	Baseline adopted, implemented
162C	100G/200G/400G CR MDIs	Baseline adopted , implemented
162D	100G/200G/400G CR CA form factors	No baseline adopted
163	100G/200G/400G KR PMD	Baseline adopted, implemented

Notes:
1. There is potential that we may be specifying a long-reach C2C based on KR and short-reach C2C based on C2M. However, it looks like we're heading towards a single version now.
2. There is potential that a new 100G FEC based on Clause 91 may be required for 100GBASE-CR1/KR1, and potential long-reach C2C.
3. Currently adopted baselines are listed here: http://www.ieee802.org/3/ck/public/baselines/index.html

Amended Clauses and Annexes

#	Clause/Annex Subject	Potential Amendments
1	Definitions, abbreviations, etc.	New defs., abbrs., etc.
30	Management Objects	New content for 100G/200G/400G
45	MDIO Interface registers	New content for 100G/200G/400G
69	Backplane Introduction	New content for 100G/200G/400G
73	AN	New content for 100G/200G/400G
80	40GE/100GE introduction	Add new 100G PMD/AUI to lists
82	40GE/100GE PCS	New content for CR/KR PHYs, AN PHY list
91	100GE RS-FEC	Add PHYs to list if new 100G FEC is not adopted
93A	Specs. for Electrical Channels (COM/ERL)	Update to support new methods
116	400GE/200GE introduction	Add new 200G/400G PMDs to lists
119	200GE/400GE PCS	New content for CR/KR PHYs, AN PHY list
120	400GE/200GE PMA	Consideration for new 200G/400G PMD/AUI
135	50GBASE-R/100GBASE-P PMA	Consideration for new 100G PMD/AUI
152[1]	Inverse FEC sublayer	Consideration for KR/CR
Notes: 1. This clause is to be specified as part of P802.3ct.		