

# **Editorial Considerations**

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P802.3ck Task Force  
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# Introduction

- Review potential P802.3ck draft structure.
  - For discussion only at this time.
- Review potential set of baseline proposals
- Introduce P802.3ck editorial team

# 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
    - short-reach C2C (based on C2M)
    - long-reach C2C (based on KR)
- New C2M AUI
- First new clause number is 300
  - We will be provided with an official starting clause number when we are ready to create our first draft for task force review.

# Potential New Clauses and Annexes

#	Clause/Annex Subject	Potential Source
120F <sup>1,2</sup>	100G/200G/400G C2C-long AUI	Annex 120D (base)
120G <sup>1,2</sup>	100G/200G/400G C2C-short AUI	Annex 120D (base)
120H <sup>1</sup>	100G/200G/400G C2M AUI	Annex 120E (base)
300 <sup>3</sup>	New 100G FEC	Clause 91 (base)
301	100G/200G/400G CR PMD	Clause 136 (3cd)
301A	100G/200G/400G CR test points, budget, etc.	Annex 136A (3cd)
301B	100G/200G/400G CR test fixtures	Annex 136B (3cd)
301C	100G/200G/400G CR MDIs	Annex 136C (3cd)
301D	100G/200G/400G CR CA form factors	Annex 136D (3cd)
302	100G/200G/400G KR PMD	Clause 137 (3cd)

**Notes:**

1. It is not obvious with which Clause to associate the AUI Annexes since a new PMA Clause is not being proposed, previous 100G AUIs are associated with Clause 135, and previous 200G/400G AUIs are associated with Clause 120.
2. There is potential that we may be specifying a long-reach C2C based on KR and short-reach C2C based on C2M.
3. There is potential that a new 100G FEC based on Clause 91 may be required for 100GBASE-CR1/KR1, and potential long-reach C2C.

# Potentially 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
TBD <sup>1</sup>	Inverse FEC sublayer	Consideration for KR/CR

Notes:

1. This clause is expected to be specified as part of P802.3bt.

# Baseline Proposals

- Potential
  - Potential new 100G FEC
  - COM/ERL methodology
  - 100G/200G/400G CR PMD, including
    - test fixtures (relates to C2M AUI)
    - cable form factors
  - 100G/200G/400G KR PMD
  - 100G/200G/400G C2C AUI
    - Potential Long-reach C2C
    - Potential Short-reach C2C
  - 100G/200G/400G C2M AUI
- Adopted
  - Auto-negotiation for KR and CR
  - CR MDI types

# 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
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
Mark Gustlin	New 100G FEC (if adopted)

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