

Editor's opening report

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Introduction

The IEEE P802.3bm 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables Task Force has adopted objectives to:

Define re-timed 4-lane 100G PMA to PMA electrical interfaces for chip to chip and chip to module applications

Define a 40 Gb/s PHY for operation over at least 40 km of SMF

Define a 100 Gb/s PHY for operation up to at least 500 m of SMF

Define a 100 Gb/s PHY for operation up to at least 100 m of MMF

Define a 100 Gb/s PHY for operation up to at least 20 m of MMF

It is now the job of the Task Force to work towards adopting baseline proposals that satisfy the remaining objectives.

Amended clauses

Clause	Change	
1	Add new references, definitions, abbreviations	
30	Add new management objects / attributes	
45	Add new registers / bits	
78	Add new EEE PHYs	
79	Changes to LLDP needed for EEE	
80	Add new PHYs	
86	Minor changes for EEE option	
87	Add 40GBASE-ER4 and changes for EEE option	Baseline adopted
88	Add CAUI-4 option and changes for EEE option	
89	Minor changes for EEE option	
91	Add new PHYs that use RS-FEC	
92 to 94	Add CAUI-4 option	
Annex A	Add any new bibliography entries	

New clauses

Clause	Content	
95	100GBASE-SR4 and 20 m over MMF	Baseline adopted Need baseline
96?	100GBASE-?R4 500 m over SMF	Need baseline
83D	CAUI-4 chip to chip	Baseline adopted
83E	CAUI-4 chip to module	Baseline adopted

CAUI naming

Motion #4 from the Orlando meeting changed the CAUI naming to be:

- Rename all instances of “CAUI” that are specific to the ten-lane variant to “CAUI-10”
- Use “CAUI” to mean either CAUI-10 or CAUI-4

This means a change to CAUI-10 in Clauses 1, 69, 78, 80, 83, 85, 86, 88, 92, 93, 94, and Annexes 83A, 83B, and 83C.

During the discussion of this motion, concerns were raised that changing the meaning of the term “CAUI” from the ten-lane interface to a more generic term meaning either CAUI-10 or CAUI-4 could cause confusion.

This therefore raises the question as to whether the Task Force should change all instances of “CAUI” that mean either CAUI-10 or CAUI-4 to something else such as CAUI-n.

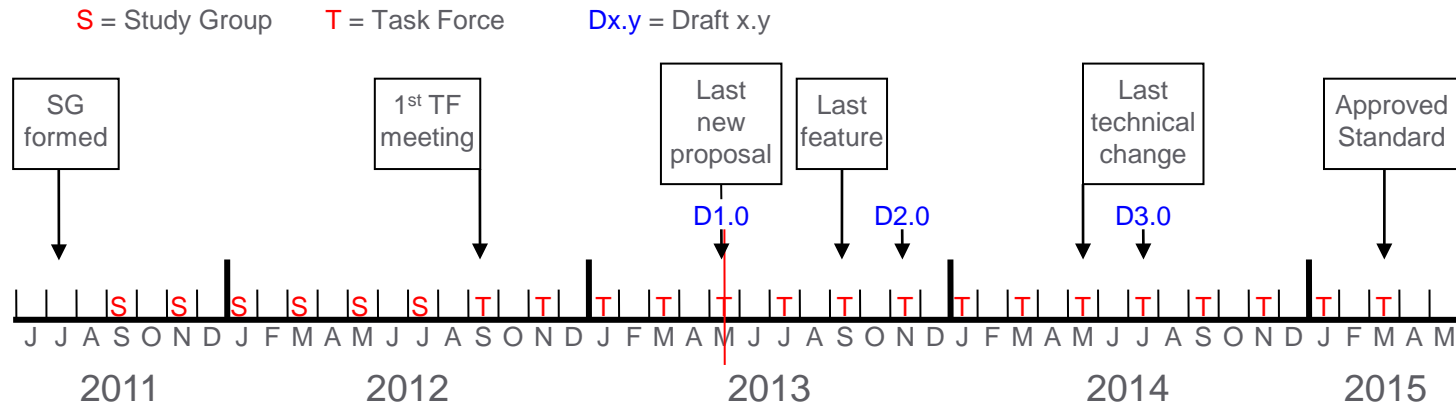
This would mean changes in Clauses 1, 74, 80, 81, 82, 83, 85, 86, 92, 93, 94, and Annex 83C (77 instances)

What's next

Adopt remaining baseline proposals or agree that objective is met with existing baselines

Adopt Draft 1.0

Commence Task Force Review process



Adopted timeline

Thanks!