

# P802.3ch Draft 0.3

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May 2018

IEEE P802.3ch

# P802.3ch Editorial Team

- Natalie Wienckowski, Chief Editor
  - Front matter, Clause 1, Definitions
  - Clause 30 Management
  - Clause 44 Introduction to 10 Gb/s baseband network
  - Clause 45 Management Data Input/Output (MDIO) Interface
  - Clause 78 Energy-Efficient Ethernet (EEE)
  - Clause 98 Auto-Negotiation for single differential-pair media
  - Clause 104 Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet
  - Clause 125 Introduction to 2.5 Gb/s and 5 Gb/s networks
  - Clause 149 Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 2.5GBASE-T1
  - Clause 150 Physical Coding Sublayer (PCS), Physical Medium Attachment (PMA) sublayer and baseband medium, type 5GBASE-T1 and 10GBASE-T1
- Curtis Donahue, Editor
  - PICS

# Draft 0.3 Chief Editor's Notes

- Draft 0.3 was loaded to our website on May 1, 2018
- Draft 0.3 has been updated to include the approved “Environmental Requirements” from the March 2018 meeting.
- Additional “common content” has been added.
- Clauses 44 and 125 have been added. These are the introductory clauses for our three PHY speeds.

# P802.3ch Draft 0.3 Structure

- Typical legacy clause content:
  - Frontmatter with Abstract
  - Clause 1 with definitions
  - Clause 30 with management objects
  - Clause 45 Management Data Input/Output (MDIO) Interface
- Placeholders for existing clauses included, required or mentioned in our objectives:
  - Clause 44 Introduction to 10 Gb/s baseband network
  - Clause 78 Energy-Efficient Ethernet (EEE)
  - Clause 98 Auto-Negotiation for single differential-pair media
  - Clause 104 Power over Data Lines (PoDL) of Single Balanced Twisted-Pair Ethernet
  - Clause 125 Introduction to 2.5 Gb/s and 5 Gb/s networks
- Additional clauses included
  - Clause 149 2.5GBASE-T1
  - Clause 150 5GBASE-T1 and 10GBASE-T1

# Clause Status: 1, 30, and 45

- Clause 1
  - Changed “automotive cabling” to “single shielded twisted-pair copper cabling”
- Clause 30
  - Minor wording changes
- Clause 45
  - Added additional standard registers

# Clause 1 - Cable definition (will also be in Link Segment)

- What should we call the cabling?
  1. “Automotive cabling” as is in the objectives. This was used because we didn’t know what the final cable type would be.
  2. “single shielded twisted-pair copper cabling” which is what the limit lines are based on and what is used in Clauses 96 & 97. This is also used in the definition of BASE-T1 (1.4.151 BASE-T1: PHYs that belong to the set of specific Ethernet PCS/PMA/PMDs that operate on a single twisted-pair copper cable, including 100BASE-T1 and 1000BASE-T1. (See IEEE Std 802.3, Clause 96 and Clause 97.)
  3. “single shielded balanced pair copper cabling” which is more generic and applies to both shielded and parallel pair cable.
  4. P802.3cg is now using “single balanced pair of conductors” to support PCB usage as well. We could use “single shielded balanced pair of conductors”.

# Clause Status: 44, 45, 78, 98, 104 and 125

- Clause 44 was added to the draft as it is 'Introduction to 10 Gb/s baseband network'
  - Standard content has been added
  - Indicates all sections that I think need to be updated/modified. This will be done as the PHYs are defined.
- Clause 45
  - Standard content has been added
  - Contributions are required for this section
- Clauses 78, 98 and 104 have no content
- Annex 98B has been updated in cooperation with P802.3cg
- Clause 125 was added to the draft as it is 'Introduction to 2.5 Gb/s and 5 Gb/s networks'
  - Standard content has been added
  - Indicates all sections that I think need to be updated/modified. This will be done as the PHYs are defined.

# Clause Status: 149 and 150

- Subsections have been added and or rearranged to match current practice
- Common text has been added throughout the Clauses.
- 149.9 and 150.9, Environmental specifications, have been updated to the approved text from March 2018

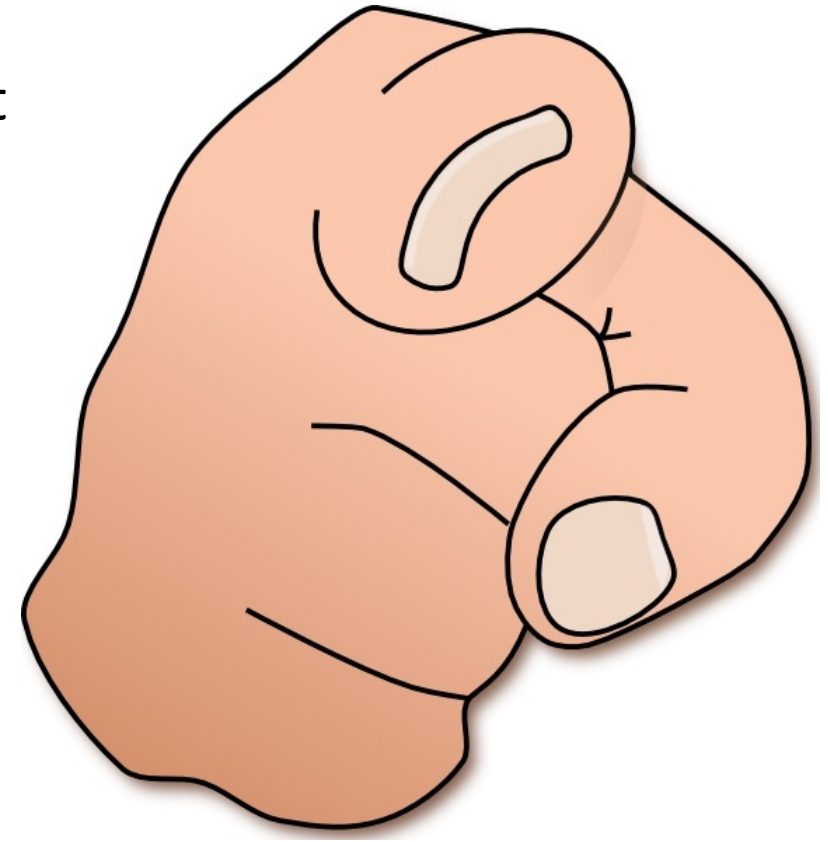


# HELP WANTED

- We have a long way to go to get to working group ballot out of our November meeting.
- Please look at our updated Timeline with the tasks that need to be completed at each meeting and consider making a contribution. You can find this in the meeting minutes of the previous meeting: [March edition](#) May edition to be created at the end of the meeting.
- Please look at our [“ToDo” Spreadsheets](#) available on our home page and consider making a contribution.
- Volunteers are also needed to “own” different spec sections. We will need additional editors or spec writers to help complete technical content.

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- THIS MEANS **YOU!**



THANK YOU