P802.3ch Draft 0.4.1

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July 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 0.4 Chief Editor's Notes

- Draft 0.4 was loaded to our website on July 3, 2018
- Draft 0.4 has been updated to include the following from the May 2018 meeting:
  - Transmit output voltage level of 1 Vpp to Clause 149
  - Reed-Solomon FEC for 2.5GBASE-T1
  - Reed-Solomon FEC for 5GBASE-T1 and 10GBASE-T1
  - Coupling Attenuation Reference Test limit and associated Annex
  - Changed link segment name to "shielded balanced pair of conductors" based on discussion during meeting
- Editorial updates and editorial instruction updates based on feedback from Pete Anslow and George Zimmerman
- Common content based on existing Clauses

Draft 0.4.1 Chief Editor's Notes

- Draft 0.4.1 was loaded to our website on July 9, 2018
- Draft 0.4.1 has been updated to include the following from the May 2018 meeting:
  - Transmit output voltage level of 1 Vpp to Clause 150
  - Added omitted "()" to RL

P802.3ch Draft 0.4.1 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
  - Annex 149A Coupling attenuation test methodology

Clause Status: 1, 30, and 45

- Clause 1
  - Changed "single shielded twisted-pair copper cabling" to "single shielded balanced pair of conductors" (and throughout document)
- Clause 30
  - Minor wording changes
- Clause 45
  - Minor wording changes
  - Modified editing instructions

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

- Clause 44
  - Standard content has been added
  - Standard figures and tables have been added and updated
- Clause 45
  - Standard content has been added
  - Contributions are required for this section
- Clause 78
  - Standard content placeholders have been added
- Clause 98 and 104 have no content
- Annex 98B has been updated in cooperation with P802.3cg
- Clause 125
  - Standard content has been added
  - Standard figures and tables have been added and updated

Clause Status: 149, 150 and 149A

- Subsections have been added and or rearranged to match current practice
- 149.5 and 150.5 subsections have been added
- 149.5.3.5 and 150.5.3.5 Transmitter peak differential output was added per May meeting
- 149.7.1.3 and 150.7.1.3 Coupling attenuation was added per May meeting
- 149A has been added with content

Task Force Review

- Start task force review on D0.5 created out of this meeting
  - All approved content required by Monday, July 23
  - D0.5 available by Friday, August 3
  - Comments due on Monday, September 3

How to Comment

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THANK YOU