

IEEE 802.3 Working Group 16th March 2020 status

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Web site: www.ieee802.org/3

Current IEEE 802.3 activities

IEEE 802.3 Task Forces

IEEE P802.3ca 25 Gb/s and 50 Gb/s EPON

IEEE P802.3ch Multi-Gig Automotive Ethernet PHY

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces

IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs

IEEE P802.3cr Isolation (Maintenance #14) Task Force

IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON)

IEEE P802.3ct 100 Gb/s over DWDM systems

IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength

IEEE P802.3cv Power over Ethernet (Maintenance #15)

IEEE P802.3cw 400 Gb/s over DWDM systems

IEEE P802.3cx Improved PTP Timestamping Accuracy

IEEE 802.3 Study Group

IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs

IEEE 802.3 Multi Gigabit Automotive Optical PHYs

IEEE 802.3 10SPE Multidrop Enhancements

IEEE 802.3 100 Gb/s Wavelength Short Reach PHYs

IEEE 802.3 Industry Connection activity

IEEE 802.3 New Ethernet Applications Ad Hoc

IEEE 802.3 Maintenance

Plan

Defer consideration of maintenance requests to the May 2020 meeting

Web page

<http://www.ieee802.org/3/maint/index.html>

IEEE P802.3ca 25 Gb/s and 50 Gb/s Passive Optical Networks Task Force

Description

The scope of this project is to amend IEEE Std 802.3 to add physical layer specifications and management parameters for point-to-multipoint passive optical networks supporting MAC data rates of 25 Gb/s or 50 Gb/s in the downstream direction and 10 Gb/s, 25 Gb/s, or 50 Gb/s in the upstream direction, with distance and split ratios consistent with those defined in IEEE Std 802.3. It also extends the operation of Ethernet Passive Optical Networks (EPON) protocols, such as MultiPoint Control Protocol (MPCP) and Operation Administration and Management (OAM)

Web site: <http://www.ieee802.org/3/ca/index.html>

Status

Last met during the 25th February 2020 IEEE P802.3ca teleconference interim

Second Standards Association recirculation ballot closed successfully on 12th March 2020

Exceeded the required 75% for consensus with one comment received

Plan

Consideration of comments received during second Standards Association recirculation ballot

Prepare for request to proceed to RevCom submittal

Teleconference interim planned for 14h00 UTC Wednesday 18th March 2020

IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force

Description

Specify additions to and appropriate modifications of IEEE Std 802.3 to add greater than 1 Gb/s Physical Layer (PHY) specifications and management parameters for media and operating conditions for applications in the automotive environment

Web site: <http://www.ieee802.org/3/ch/index.html>

Status

Last met during the 26th February 2020 IEEE P802.3ch teleconference interim

Second Standards Association recirculation ballot closed successfully on 13th March 2020

Exceeded the required 75% for consensus with one comment received

Plan

Consideration of comments received during second Standards Association recirculation ballot

Prepare for request to proceed to RevCom submittal

Teleconference interim planned for 14h00 UTC Thursday 19th March 2020

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force

Description

This project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signaling

Web site: <http://ieee802.org/3/ck/index.html>

Status

Last met during the January 2020 interim meeting series

Draft D1.1 sent out for 2nd Task Force review

Plan

Consideration of comments received against draft D1.1

Continue work towards technically complete draft for working group ballot

Next teleconference interim planned for 13h00 UTC Wednesday 18th March 2020

IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs Task Force

Description

Define physical layer specifications and management parameters for symmetric bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s operation over single strand of single mode fiber of at least 10 km

Web site: <http://ieee802.org/3/cp/index.html>

Status

Last met during the January 2020 interim meeting series

Draft D1.2 sent out for 4th Task Force review

Plan

Consideration of comments received against draft D1.2

Continue work towards technically complete draft for working group ballot

Next teleconference interim planned for 16h30 UTC Friday 20th March 2020

IEEE P802.3cr Isolation (Maintenance #14) Task Force

Description

Replace references to the IEC 60950 series of standards (including IEC 60950-1 "Information technology equipment - Safety - Part 1: General requirements") with appropriate references to the IEC 62368 "Audio/video, information and communication technology equipment" series and make appropriate changes to the standard corresponding to the new references

Web site: <http://ieee802.org/3/cr/index.html>

Status

Last met during the January 2020 interim meeting series

Draft D2.1 sent out for 1st Working Group recirculation ballot

Plan

Consideration of comments received against draft D2.1

Recirculation ballots as required

Teleconference interim to be announced on Task Force reflector

IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) Task Force

Description

Define physical layer specifications and management parameters for optical subscriber access supporting point-to-multipoint operations using wavelength division multiplexing over an increased-reach (up to at least 50 km) passive optical network (PON)

Web site: <http://ieee802.org/3/cs/index.html>

Status

Last met during the January 2020 interim meeting series

Baseline proposal selection to satisfy objectives and draft development

Draft D0.5 sent out for 5th Task Force review

Plan

Continue to work on selection of a set of baseline proposals

Consideration of comments received against draft D0.5

Teleconference interim planned for 17h00 UTC Thursday 2nd April 2020

IEEE P802.3ct 100Gb/s over DWDM systems Task Force

Description

Define physical layer specifications and management parameters for the transfer of Ethernet format frames at 100 Gb/s at reaches greater than 10 km over DWDM systems

Web site: <http://ieee802.org/3/ct/index.html>

Status

IEEE P802.3ct PAR modification request approved 13th February 2020

This was part of the IEEE P802.3ct 'PAR split' which removed the 400 Gb/s portion of the IEEE P802.3ct project and placed it in the new IEEE P802.3cw amendment project

Last face to face meeting during a January 2020 Task Force interim

Draft D1.2 sent out for 3rd Task Force review

Plan

Consideration of comments received against draft D1.2

Continue work towards technically complete draft for working group ballot

Next teleconference interim planned for 14h00 UTC Thursday 19th March 2020

IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength Task Force

Description

Define additions to and appropriate modifications of IEEE Std 802.3 to add PHY specifications and Management Parameters for 100 Gb/s and 400 Gb/s Ethernet optical interfaces for reaches up to 10 km based on 100 Gb/s per wavelength optical signaling.

Web site: <http://ieee802.org/3/cu/index.html>

Status

Last met during a January 2020 Task Force interim

Draft D2.0 sent out for Initial Working Group ballot

Plan

Consideration of comments received against draft D2.0

Recirculation ballots as required

Next teleconference interim planned for 14h00 UTC Tuesday 17th March 2020

IEEE P802.3cv Maintenance #15: Power over Ethernet Task Force

Description

Editorial and technical corrections, refinements, and clarifications to Clause 145, Power over Ethernet, and related portions of the standard. No new features will be added by this project.

Web site: <http://ieee802.org/3/cv/index.html>

Status

Last met during a January 2020 Task Force interim

Draft D1.2 sent out for 3rd Task Force review

Plan

Consideration of comments received against draft D1.2

Continue work towards technically complete draft for working group ballot

Teleconference interim to be announced on Task Force reflector

IEEE P802.3cw 400 Gb/s over DWDM Systems Task Force

Description

Define physical layer specifications and management parameters for the transfer of Ethernet format frames at 400 Gb/s at reaches greater than 10 km over DWDM systems.

Web site: <http://ieee802.org/3/cw/index.html>

Status

IEEE P802.3cw PAR approved 13th February 2020

This was part of the IEEE P802.3ct 'PAR split' which removed the 400 Gb/s portion of the IEEE P802.3ct project and placed it in this new IEEE P802.3cw amendment project

Plan

Selecting set of baseline proposals to satisfy project objectives

Next teleconference interim planned for 14h00 UTC Thursday 19th March 2020

IEEE P802.3cx Improved PTP timestamping accuracy Task Force

Description

Define optional enhancements to Ethernet support for time synchronization protocols to provide improved timestamp accuracy in support of ITU-T Recommendation G.8273.2 'Class C' and 'Class D' system time error performance requirements.

Web site: <http://ieee802.org/3/cx/index.html>

Status

IEEE P802.3cx PAR approved 13th February 2020

Plan

Selecting set of baseline proposals to satisfy project objectives

Teleconference interim to be announced on Task Force reflector

IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs Study Group

Description

Develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for greater than 10 Gb/s Automotive Ethernet Electrical PHYs

Web site: <http://ieee802.org/3/B10GAUTO/index.html>

Status

The Study Group completed development of the draft IEEE P802.3cy Standard for Ethernet: Amendment: Physical Layer Specifications and Management Parameters for greater than 10 Gb/s Automotive Electrical Ethernet PAR, as well as supporting CSD and objectives

Draft PAR: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0008-01-00EC-ieee-p802-3cy-draft-par-response.pdf>

Draft CSD: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0009-00-00EC-ieee-p802-3cy-draft-csd-response.pdf>

Draft objectives: http://ieee802.org/3/B10GAUTO/B10GAUTO_OBJ_DRAFT_03_1119.pdf

Plan

Progress draft PAR, CSD and objectives approval at July 2020 IEEE 802 plenary meeting

IEEE 802.3 Multi Gigabit Automotive Optical PHYs Study Group

Description

Develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Multi Gigabit Automotive Optical PHYs

Web site: <http://ieee802.org/3/OMEGA/index.html>

Status

The Study Group completed development of the draft IEEE P802.3cz Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for Multi-Gigabit Optical Automotive Ethernet PAR, as well as supporting CSD and objectives

Draft PAR: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0010-01-00EC-ieee-p802-3cz-draft-par-response.pdf>

Draft CSD: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0011-00-00EC-ieee-p802-3cz-draft-csd-response.pdf>

Draft objectives: http://ieee802.org/3/OMEGA/public/jan_2020/objectives_OMEGA_01a_0120.pdf

Plan

Progress draft PAR, CSD and objectives approval at July 2020 IEEE 802 plenary meeting

IEEE 802.3 10Mb/s Single Pair Ethernet (SPE) Multidrop Enhancements Study Group

Description

Develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for 10 Mb/s Single Pair Ethernet Multidrop Enhancements

Web site: <http://ieee802.org/3/SPMD/index.html>

Status

The Study Group completed development of the draft IEEE P802.3da Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 10 Mb/s Operation over Single Balanced Pair Multidrop Enhancements PAR, as well as supporting CSD and objectives

Draft PAR: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0012-01-00EC-ieee-p802-3da-draft-par-response.pdf>

Draft CSD: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0013-00-00EC-ieee-p802-3da-draft-csd-response.pdf>

Draft objectives: http://ieee802.org/3/SPMD/spmd_objectives.pdf

Plan

Progress draft PAR, CSD and objectives approval at July 2020 IEEE 802 plenary meeting

IEEE 802.3 100 Gb/s Wavelength Short Reach PHYs Study Group

Description

Develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Lower cost, short reach, optical PHYs using 100 Gb/s wavelengths

Web site: <http://ieee802.org/3/SPMD/index.html>

Status

The Study Group completed development of the draft IEEE P802.3db Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Operation over Optical Fiber using 100 Gb/s Signaling PAR, as well as supporting CSD and objectives

Draft PAR: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0014-01-00EC-ieee-p802-3db-draft-par-response.pdf>

Draft CSD: <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0015-00-00EC-ieee-p802-3db-draft-csd-response.pdf>

Draft objectives: http://ieee802.org/3/100GSR/Objectives_Approved_by_100GSR_SG_Jan_2020.pdf

Plan

Progress draft PAR, CSD and objectives approval at July 2020 IEEE 802 plenary meeting

Proposals for additional objectives may also be considered

Teleconference interim to be announced on Study Group reflector

IEEE 802.3 Officers, Subgroup Chairs and Vice-Chairs

IEEE 802.3 Chair: David Law <dlaw@hpe.com>

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@broadcom.com>

IEEE 802.3 Secretary: Jon Lewis <jon.lewis@dell.com>

IEEE 802.3 Executive Secretary: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Treasurer: Valerie Maguire <valerie_maguire@siemon.com>

IEEE 802.3 Task Force chairs

IEEE P802.3ca 25 Gb/s and 50 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.com>

IEEE P802.3ch Multi-Gig Automotive Ethernet PHY: Steve Carlson <scarlson@ieee.org>

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Elizabeth Kochuparambil <edonnay@cisco.com>

IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs: Frank Effenberger <frank.effenberger@huawei.com>

IEEE P802.3cr Isolation (Maintenance #14) Task Force: Jon Lewis <jon.lewis@dell.com>

IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON): Claudio DeSanti <cds@ieee.org>

IEEE P802.3ct 100 Gb/s over DWDM systems: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength: Mark Nowell <mnowell@cisco.com>

IEEE P802.3cv Power over Ethernet (Maintenance #15): Chad Jones <cmjones@cisco.com>

IEEE P802.3cw 400 Gb/s over DWDM systems (acting): John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cx Improved PTP Timestamping Accuracy (acting): Steve Gorshe <steve.gorshe@microchip.com>

IEEE 802.3 Task Force vice-chairs

IEEE P802.3ca 25 Gb/s and 50 Gb/s EPON: Glen Kramer <glen.kramer@broadcom.com>

IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces: Kent Lusted <kent.c.lusted@intel.com>

IEEE 802.3 Study Group chairs

IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Multi Gigabit Automotive PHYs Optical Study Group: Bob Grow <bob.grow@ieee.org>

IEEE 802.3 10 Mb/s Single Pair Ethernet Multidrop Enhancements Study Group: Chad Jones <cmjones@cisco.com>

IEEE 802.3 100 Gb/s Wavelength Short Reach PHYs Study Group: Robert Lingle <rlingle@ofsoptics.com>

Upcoming meetings

Please see <http://www.ieee802.org/3/calendar.html>

IEEE 802.3 Call and Meeting Calendar

NOTE: Calendar set to detected computer time zone: Europe/London

Today ▶ ◀ March 2020 Print Week Month Agenda

| Sun | Mon | Tue | Wed | Thu | Fri | Sat | |
|--|---|---|---|---|---|-----|----|
| 1 Mar | 2 | 3 | 4 | 5 15:00 802 Seat 2 - Joint IEEE P802.3ct / | 6 | 7 | |
| 8 | 9 | 10 | 11 14:00 FW: [802.3_100GEL] p802.3ck Ad 14:00 FW: [802.3_SPM] 10SPE Multidro 17:00 SCC18 Ad Hoc Weekly | 12 14:00 802 Seat 2 - IEEE P802.3ct / P802 | 13 | 14 | |
| 15 | IEEE 802 March 2020 Plenary - CANCELLED! - Atlanta, GA, USA | | | | | | 21 |
| 14:00 IEEE 802.3 Working Group Update | 14:00 FW: P802.3cu Interim Teleconferen | 13:00 3ck Telephonic Interim - March 20; 14:00 IEEE P802.3ca 25 Gb/s and 50 Gb/ 17:00 SCC18 Ad Hoc Weekly | 14:00 IEEE P802.3ca 25 Gb/s and 50 Gb/ 17:00 SCC18 Ad Hoc Weekly | 14:00 802 Seat 2 - Joint IEEE P802.3ct / | 16:30 Contingent 802.3cp teleconference | | |
| 22 | 23 14:00 FW: P802.3cu Interim teleconferen | 24 14:00 3ck Telephonic Interim - March 20; 17:00 SCC18 Ad Hoc Weekly | 25 14:00 802 Seat 2 - Joint IEEE P802.3ct / 16:00 802 Seat 2 - 100G Short Reach SG | 26 | 27 | 28 | |
| 29 15:00 3ck Telephonic Interim - March 20; | 30 15:00 FW: P802.3cu Interim teleconferen | 31 15:00 3ck Telephonic Interim - March 20; 18:00 SCC18 Ad Hoc Weekly | 1 Apr 2 15:00 802 Seat 2 - Joint IEEE P802.3ct / 18:00 802 Seat 2 - IEEE P802.3cs Telecon | 3 | 4 | | |

Events shown in time zone: United Kingdom Time + Google Calendar

State of the standard

IEEE Std 802.3-2018 Revision

IEEE Std 802.3-2018 Standard for Ethernet 8 Books (Sections) 14-Jun-18/31-Aug-18*

| Section 1 | Section 2 | Section 3 | Section 4 | Section 5 | Section 6 | Section 7 | Section 8 |
|--|--|--|--|--|--|---|---|
| Clause 1 to 20 Annex A to H, 4A | Clause 21 to 33 Annex 22A to 33E | Clause 34 to 43 Annex 36A to 43C | Clause 44 to 55 Annex 44A to 55B | Clause 56 to 77 Annex 57A to 76A | Clause 78 to 95 Annex 83A to 93C | Clause 96 to 115 Annex 97A to 115A | Clause 116 to 126 Annex 119A to 120E |
| CSMA/CD Overview MAC PLS/AUI 10BASE5 MAU 10BASE2 MAU 10BROAD36 MAU 10BASE-T MAU 10BASE-F MAUs 10 Mb/s Repeater 10 Mb/s Topology 10BASE-Te 1BASE5 DTE & MAU Mgmt Repeater Mgmt | 100 Mb/s Overview MII 100BASE-T2 100BASE-T4 100BASE-TX 100BASE-FX 100Mb/s Repeater 100Mb/s Topology MAC Control Auto-Negotiation (AN) Management DTE Power | 1000 Mb/s Overview GMII 1000BASE-X AN 1000BASE-SX 1000BASE-LX 1000BASE-CX 1000BASE-T 1000 Mb/s Repeater 1000 Mb/s Topology | 10 Gb/s Overview MDC/MDIO XGMII XAUI XSBI 10GBASE-SR 10GBASE-LR 10GBASE-ER 10GBASE-SW 10GBASE-LW 10GBASE-EW 10GBASE-LX4 10GBASE-CX4 10GBASE-T | Subscriber Access Networks (SA) Overview OAM MPMC 100BASE-LX10 100BASE-BX10 1000BASE-LX10 1000BASE-BX10 1000BASE-PX10 1000BASE-PX20 10GBASE-PR 10/1GBASE-PRX 10PASS-TS 2BASE-TL SA Topology 10GBASE-LRM Backplane Overview 1000BASE-KX 10GBASE-KX4 10GBASE-KR Backplane AN BASE-R FEC | EEE LLDP TLVs Time Sync RS-FEC 40/100G Overview 40GBASE-KR4 40GBASE-CR4 40GBASE-SR4 40GBASE-FR 40GBASE-LR4 40GBASE-ER4 100GBASE-CR10 100GBASE-SR10 100GBASE-KR4 100GBASE-KP4 100GBASE-CR4 100GBASE-SR4 100GBASE-LR4 100GBASE-ER4 | 100BASE-T1 1000BASE-T1 Single-Pair AN MAC Merge 10GPASS-XR EPoC PHY Link MPMC for EPoC PoDL 25Gb/s Overview 25GBASE-CR/CR-S 25GBASE-KR/KR-S 25GBASE-SR 25GBASE-LR 25GBASE-ER 25GBASE-T 40GBASE-T 1000BASE-RHA/B/C | 200 Gb/s and 400 Gb/s Overview 200GBASE-DR4 200GBASE-FR4 200GBASE-LR4 400GBASE-SR16 400GBASE-DR4 400GBASE-FR8 400GBASE-LR8 2.5 Gb/s and 5 Gb/s Overview 2.5GBASE-T 5GBASE-T |

State of the standard

Current amendments and other IEEE 802.3 standards

IEEE Std 802.3-2018 amendments

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|---|---|
| <p>IEEE Std 802.3cb-2018 Amendment 1: Physical Layer Specifications and Management Parameters for 2.5 Gb/s and 5 Gb/s Operation over Backplane 27-Sep-18/04-Jan-19*</p> | <p>IEEE Std 802.3cg-2019 Amendment 5: Physical Layers Specifications and Management Parameters for 10 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors 7-Nov-19/5-Feb-20*</p> |
| <p>IEEE Std 802.3bt-2018 Amendment 2: Physical Layer and Management Parameters for Power over Ethernet over 4 pairs 27-Sep-18/31-Jan-18*</p> | <p>IEEE Std 802.3cq-2020 Amendment 6: Maintenance #13: Power over Ethernet over 2 pairs 30-Jan-20/13-Mar-20*</p> |
| <p>IEEE Std 802.3cd-2018 Amendment 3: Media Access Control Parameters for 50 Gb/s and Physical Layers and Management Parameters for 50 Gb/s, 100 Gb/s, and 200 Gb/s Operation 5-Dec-18/15-Feb-19*</p> | <p>IEEE Std 802.3cm-2020 Amendment 7: Physical Layer and Management Parameters for 400 Gb/s over Multimode Fiber 30-Jan-20/TBD*</p> |
| <p>IEEE Std 802.3cn-2019 Amendment 4: Physical Layers and Management Parameters for 50Gb/s, 200Gb/s, and 400Gb/s Operation over Single-Mode Fiber 7-Nov-18/20-Dec-19*</p> | |

Other IEEE 802.3 standards

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| <p>IEEE Std 802.3.1-2013 IEEE Standard for Management Information Base (MIB) Definitions for Ethernet 14-Jun-13/02-Aug-13*</p> |
| <p>IEEE Std 802.3.2-2019 IEEE Standard for Ethernet YANG Data Model Definitions 21-Mar-19/21-Jun-19*</p> |

State of the standard

IEEE 802.3 current status overview

Call for interest

Study Group

- IEEE 802.3 Greater than 10 Gb/s Automotive Ethernet Electrical PHYs
[Developing PAR, CSD and objectives](#)
- IEEE 802.3 Multi Gigabit Automotive Optical PHY
[Developing PAR, CSD and objectives](#)
- IEEE 802.3 Improving PTP Timestamping Accuracy
[Developing PAR, CSD and objectives](#)
- IEEE 802.3 10SPE Multidrop Enhancements
[Developing PAR, CSD and objectives](#)

Task Force

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|---|---|--|---|
| IEEE P802.3cw 400 Gb/s over DWDM systems Baseline section | IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) D0.5 Task Force Review | IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs D1.2 Task Force Review | IEEE P802.3ca 25 and 50 Gb/s Passive Optical Networks D3.1 Standards Association ballot |
| IEEE P802.3cx Improved PTP Timestamping Accuracy Baseline section | IEEE P802.3cv Maintenance #15: Power over Ethernet Task Force D1.2 Task Force Review | IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength D2.0 Working Group ballot | IEEE P802.3ch Multi-Gig Automotive Ethernet D3.2 Standards Association ballot |
| IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces D1.1 Task Force Review | IEEE P802.3ct 100 Gb/s over DWDM systems Task Force D1.2 Task Force Review | IEEE P802.3cr Isolation (Maintenance #14) D2.1 Working Group ballot | |

Progress to standard