

# IEEE 802.3 Working Group July 2020 Plenary Week

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Web site: [www.ieee802.org/3](http://www.ieee802.org/3)

# Current IEEE 802.3 activities

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## 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 P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force

IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force

## IEEE 802.3 Ad Hoc

IEEE 802.3 New Ethernet Applications Ad Hoc

IEEE 802.3 SCC18 Ad Hoc

# IEEE 802.3 Maintenance

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## Plan

Consider new maintenance requests

Review status of outstanding maintenance requests

Consider any other maintenance business

Plenary session teleconference planned for 14h00 UTC Monday 20<sup>th</sup> July 2020

## Web page

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

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

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## 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

Draft D1.2 sent out for 3<sup>rd</sup> Task Force review

## Plan

Consideration of comments received against draft D1.2

Continue work towards technically complete draft for working group ballot

First plenary session teleconference planned for 14h00 UTC Wednesday 15<sup>th</sup> July 2020

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

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## 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

Draft D2.0 sent out for Initial Working Group ballot

## Plan

Consideration of comments received against draft D2.0

First plenary session teleconference planned for 13h00 UTC Wednesday 15<sup>th</sup> July 2020

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

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## 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

Draft D3.0 sent out for Initial Standards Association ballot

## Plan

Consideration of comments received against draft D3.0

Plenary session teleconference planned for 14h00 UTC Thursday 16<sup>th</sup> July 2020

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

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## 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

Baseline proposal selection to satisfy objectives and draft development

Draft D1.0 sent out for 7<sup>th</sup> Task Force review

## Plan

Continue to work on selection of a set of baseline proposals

Consideration of comments received against draft D1.0

First plenary session teleconference planned for 17h00 UTC Thursday 16<sup>th</sup> July 2020

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

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## 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

Draft D2.0 sent out for Initial Working Group ballot

## Plan

Consideration of comments received against draft D2.0

Plenary session teleconference planned for 14h00 UTC Thursday 16<sup>th</sup> July 2020



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

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## 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

Draft D2.2 sent out for 2<sup>nd</sup> Working Group recirculation ballot

Ballot closed on 30<sup>th</sup> June 2020 with no new negatives and no comments to consider

Approval granted by IEEE 802 Executive Committee to proceed to Standards Association ballot

Draft D3.0 sent out for initial Standards Association ballot

## Plan

Task Force will not be meeting during July 2020 plenary session

Initial Standards Association ballot underway

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

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## 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

Draft D2.0 sent out for Initial Working Group ballot

## Plan

Consideration of comments received against draft D2.0

First plenary session teleconference planned for 14h00 UTC Tuesday 21<sup>th</sup> July 2020

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

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## 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

Selecting set of baseline proposals to satisfy project objectives

## Plan

Selecting set of baseline proposals to satisfy project objectives

Plenary session teleconference planned for 14h00 UTC Thursday 16<sup>th</sup> July 2020

# IEEE P802.3cx Improved PTP timestamping accuracy Task Force

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## 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

Selecting set of baseline proposals to satisfy project objectives

## Plan

Selecting set of baseline proposals to satisfy project objectives

Plenary session teleconference planned for 14h00 UTC Wednesday 22<sup>nd</sup> July 2020

# IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force

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## Description

Specify additions to and appropriate modifications of IEEE Std 802.3 to add greater than 10 Gb/s electrical Physical Layer specifications for symmetrical and asymmetrical operation and management parameters for media and operating conditions for applications in the automotive environment.

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

## Status

PAR approved 3<sup>rd</sup> June 2020

Selecting set of baseline proposals to satisfy project objectives

## Meeting plan

Continue to work on selection of a set of baseline proposals

First plenary session teleconference planned for 14h00 UTC Wednesday 15<sup>th</sup> July 2020

# IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force

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## Description

Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet for application in the automotive environment.

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

## Status

PAR approved 3<sup>rd</sup> June 2020

Selecting set of baseline proposals to satisfy project objectives

## Meeting plan

Continue to work on selection of a set of baseline proposals

First plenary session teleconference planned for 12h00 UTC Tuesday 14<sup>th</sup> July 2020

# IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force

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## Description

Specify additions and modifications of the Physical Layer (including reconciliation sublayers), management parameters, Ethernet support for time synchronization protocols, and optional power delivery supporting multiple powered devices on the 10 Mb/s mixing segment.

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

## Status

PAR approved 3<sup>rd</sup> June 2020

Selecting set of baseline proposals to satisfy project objectives

## Meeting plan

Continue to work on selection of a set of baseline proposals

First plenary session teleconference planned for 14h00 UTC Tuesday 14<sup>th</sup> July 2020

# IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force

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## Description

Specify additions to and appropriate modifications of IEEE Std 802.3 and adds Physical Layer specifications and management parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s Ethernet optical interfaces for server attachment and other intra-data center applications using 100 Gb/s signaling over optical fiber

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

## Status

PAR approved 3<sup>rd</sup> June 2020

Selecting set of baseline proposals to satisfy project objectives

## Meeting plan

Continue to work on selection of a set of baseline proposals

First plenary session teleconference planned for 14h00 UTC Tuesday 14<sup>th</sup> July 2020



# IEEE 802.3 New Ethernet Applications (NEA) Ad Hoc

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## Description

The goal of this activity is to assess requirements for new Ethernet-based applications, identify gaps not currently addressed by IEEE 802.3 standards, and facilitate building industry consensus towards proposals to initiate new standards development efforts

Web site: [http://ieee802.org/3/ad\\_hoc/ngrates/index.html](http://ieee802.org/3/ad_hoc/ngrates/index.html)

## Status

Progressing NEA Industry Connections Activity Initiation Document (ICAID)

Provide two year extension of NEA to December 31<sup>st</sup> 2022

Development of the Beyond 400 GbE CFI Activity

## Meeting plan

Respond to any comments received on ICAID

Plenary session teleconference planned for 17h00 UTC Tuesday 14<sup>th</sup> July 2020

# IEEE 802.3 SCC18 Ad Hoc

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## Description

Ad Hoc Scope: Build consensus on responses to public input proposals received as part of the NEC 2020 code cycle for consideration at the September 2017 IEEE 802.3 interim meeting and November 2017 IEEE 802.3 plenary; Consider any other IEEE SCC18 related items of interest, such as proposed Tentative Interim Amendments (TIA); and Build consensus on draft input to IEC TC64/PT716, and proposed direction of the IEEE 802.3 Category D liaison expert, for consideration at upcoming IEEE 802.3 interim and plenary meetings, in preparation for the next IEC TC64/PT716 meeting.

Web site: [http://ieee802.org/3/ad\\_hoc/SCC\\_18/index.html](http://ieee802.org/3/ad_hoc/SCC_18/index.html)

## Status

### Changing IEEE relationship with NFPA

Appointment of IEEE's External Representatives to the NFPA [terminating 31<sup>st</sup> August 2020](#)

IEEE SCC18 Coordinating Committee [disbanding 31<sup>st</sup> August 2020](#)

Six individuals nominated as IEEE 802.3 organisational representatives to NFPA 70 code making panels

### New IEC Power over Ethernet related project

[IEC 63315 ED1](#) Audio/Video, Information and Communication Technology Equipment – Safety – DC power transfer between ICT equipment ports using ICT cabling at  $\leq 60$  Vd.c.

### IEC renamed Category D liaisons as Category C liaisons

## Meeting plan

Consider scope update request

Consider request for Category C liaison with IEC PT 63315

First plenary session teleconference planned for 17h00 UTC Wednesday 15<sup>th</sup> July 2020

# IEEE 802.3 Officers, Subgroup Chairs and Vice-Chairs

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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 and 400 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 P802.3cx Improving PTP Timestamping Accuracy on Ethernet Interfaces: Steve Gorshe <steve.gorshe@microchip.com>

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet Task Force: Steve Carlson <scarlson@ieee.org>

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet Task Force: Bob Grow <bob.grow@ieee.org>

IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement Task Force: Chad Jones <cmjones@cisco.com>

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber Task Force: Robert Lingle <rlingle@ofsoptics.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>

# 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 Print Week Month Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	1 Jul	2	3	4
		15:00 802.3ck Telephonic Interims - re: C	15:00 802 Seat 2 - PARs from other WG e	15:00 802 Seat 2 - Joint IEEE P802.3ct /		
5	6	7	8	9	10	11
15:00 802.3ck Telephonic Interims - re: C			15:00 802.3ck Telephonic Interims - re: C 18:00 SCC18 Ad Hoc Weekly	15:00 802 Seat 2 - Joint IEEE P802.3ct / 17:00 IEEE P802.3dB Task Force (potenti		
12	13	14	15	16	17	18
	IEEE 802 July 2020 Plenary - Physical meeting CANCELLED - Virtual Meeting instead - West Montreal, QC, Canada					
	IEEE 802 Virtual Plenary - week 1					
	15:00 IEEE 802.3 July 2020 Opening Plen	13:00 802 Seat 2 - P802.3cz TF (OMEGA) 15:00 P802.3da TF meeting Day 1 <a href="#">+2 more</a>	13:00 802 Seat 2 - P802.3cz TF (OMEGA) 14:00 802.3cp July Meeting Session #1 <a href="#">+5 more</a>	15:00 802 Seat 2 - IEEE P802.3ct / P802. 18:00 802 Seat 2 - P802.3cs July Plenary		
19	20	21	22	23	24	25
	IEEE 802 Virtual Plenary - week 2					
	15:00 IEEE 802.3 Maintenance 15:00 P802.3cu Plenary Teleconference m 15:00 P802.3da TF meeting Day 2	14:00 802.3cp July Meeting Session #3 15:00 802.3ck Telephonic Interims - re: C 15:00 P802.3cv TF meeting Day 1 18:00 802.3cp July Meeting Session #4	14:00 802.3cp July Meeting Session #5 15:00 802.3ck Telephonic Interims - re: C 15:00 IEEE P802.3cy Beyond 10 Gb/s Ele <a href="#">+3 more</a>	15:00 IEEE 802.3 July 2020 Closing Plena		
26	27	28	29	30	31	1 Aug
	15:00 802 Seat 2 - 802.3 NEA Ad hoc - B	15:00 802.3ck Telephonic Interims - re: C	15:00 802.3ck Telephonic Interims - re: C 15:00 802.3da 10SPE Multidrop Segment 18:00 SCC18 Ad Hoc Weekly	15:00 802 Seat 2 - Joint IEEE P802.3ct /		

Events shown in time zone: United Kingdom Time + GoogleCalendar

# 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

### IEEE Std 802.3-2018 amendments

<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 802.3ca-2020 Amendment 9: Physical Layer Specifications and Management Parameters for 25 Gb/s and 50 Gb/s Passive Optical Networks 4-Jun-20/30-Jun-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-20/30-Mar-20*</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>	<p>IEEE Std 802.3ch-2020 Amendment 8: Physical Layer Specifications and Management Parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s Automotive Electrical Ethernet 4-Jun-20/30-Jun-20*</p>	

# State of the standard

## Other IEEE 802.3 standards

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IEEE Std 802.3.1-2013  
IEEE Standard for  
Management Information Base  
(MIB) Definitions for Ethernet  
14-Jun-13/02-Aug-13\*

IEEE Std 802.3.2-2019  
IEEE Standard for Ethernet YANG  
Data Model Definitions  
21-Mar-19/21-Jun-19\*

# State of the standard

## IEEE 802.3 current status overview

Call for interest

Study Group

Task Force

<p>IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber <a href="#">Baseline section</a></p>	<p>IEEE P802.3cx Improved PTP Timestamping Accuracy <a href="#">Baseline section</a></p>	<p>IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) <a href="#">D1.0 Task Force Review</a></p>	<p>IEEE P802.3cp Bidirectional 10 Gb/s, 25 Gb/s, and 50 Gb/s Optical Access PHYs <a href="#">D2.0 Working Group ballot</a></p>
<p>IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement <a href="#">Baseline section</a></p>	<p>IEEE P802.3cw 400 Gb/s over DWDM systems <a href="#">Baseline section</a></p>	<p>IEEE P802.3cv Maintenance #15: Power over Ethernet Task Force <a href="#">D2.0 Working Group ballot</a></p>	<p>IEEE P802.3cu 100 Gb/s and 400 Gb/s over SMF at 100 Gb/s per Wavelength <a href="#">D3.0 Standards Association ballot</a></p>
<p>IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet <a href="#">Baseline section</a></p>	<p>IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces <a href="#">D1.2 Task Force Review</a></p>	<p>IEEE P802.3ct 100 Gb/s over DWDM systems Task Force <a href="#">D2.0 Working Group ballot</a></p>	<p>IEEE P802.3cr Isolation (Maintenance #14) <a href="#">D3.0 Standards Association ballot</a></p>
<p>IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet <a href="#">Baseline section</a></p>			

Progress to standard 