

IEEE 802.3 Working Group November 2021 Plenary Session

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Web site: www.ieee802.org/3

Current IEEE 802.3 activities

IEEE 802.3 Task Forces

- IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s Electrical Interfaces Task Force
- IEEE P802.3cs Increased-reach Ethernet optical subscriber access (Super-PON) Task Force
- IEEE P802.3cw 400 Gb/s over DWDM systems Task Force
- IEEE P802.3cx Improved PTP Timestamping Accuracy Task Force
- 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 P802.3 (IEEE 802.3dc) Revision to IEEE Std 802.3-2018 Maintenance #16 Task Force
- IEEE P802.3dd Power over Data Lines of Single Pair Ethernet (Maintenance #17) Task Force
- IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet Task Force

IEEE 802.3 Study Group

- IEEE 802.3 Beyond 400 Gb/s Ethernet Study Group
- IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group

IEEE 802.3 Ad Hoc

- IEEE 802.3 New Ethernet Applications Ad Hoc
- IEEE 802.3 Power Distribution Coordinating Committee (PDCC) Ad Hoc

IEEE 802.3 Maintenance

Plan

Consider new maintenance requests

Review status of outstanding maintenance requests

IEEE P802.3 (IEEE 802.3dc) Ethernet revision (Maintenance #16) project

Progress approval to proceed to Standards Association ballot

Adoption of IEEE 802.3 standards by ISO/IEC SC6

Consider any other maintenance business

First plenary session teleconference planned for 15h00 UTC Tuesday 9 November 2021

Second plenary session teleconference planned for 15h00 UTC Monday 15 November 2021

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

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 D2.3 to be sent out for 3rd Working Group recirculation ballot

Plan

Consideration of comments received against draft D2.3

Progress approval to proceed to Standards Association ballot

Plenary session teleconference planned for 15h00 UTC Wednesday 17 November 2021

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

Draft D2.4 sent out for 4th Working Group recirculation ballot

Plan

Consideration of comments received against draft D2.4

Progress approval to proceed to Standards Association ballot

First plenary session teleconference planned for 20h00 UTC Monday 8 November 2021

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

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

Plan

Consideration of comments received against draft D1.2

Plenary session teleconference planned for 15h00 UTC Monday 15 November 2021

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

Draft D2.0 sent out for Initial Working Group ballot

Meeting plan

Consideration of comments received against draft D2.0

Plenary session teleconference planned for 15h00 UTC Wednesday 10 November 2021

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

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

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 15h00 UTC Tuesday 9 November 2021

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

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

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 13h00 UTC Tuesday 9 November 2021

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

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

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 16h00 UTC Monday 8 November 202

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

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

Draft D2.0 sent out for Initial Working Group ballot

Meeting plan

Consideration of comments received against draft D2.0

First plenary session teleconference planned for 17h00 UTC Monday 8 November 2021

IEEE P802.3dd Power over Data Lines of Single Pair Ethernet (Maintenance #17) Task Force

Description

Implement editorial and technical corrections, refinements, and clarifications to Clause 104, Power over Data Lines (PoDL) of Single-Pair Ethernet, and related portions of the IEEE Std 802.3 Ethernet standard. No new features are added by this project.

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

Status

Draft D2.0 sent out for Initial Working Group ballot

Meeting plan

Consideration of comments received against draft D2.0

Plenary session teleconference planned for 17h00 UTC Tuesday 16 November 2021

IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet Task Force

Description

Specify additions to and appropriate modifications of the IEEE Std 802.3 MAC Merge function and the Time Synchronization Service Interface (TSSI) to support 10 Mb/s Single Pair Ethernet point to point PHYs

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

Status

Completed development of technically complete draft

Draft D1.0 sent out for Working Group preview

Meeting plan

Progress approval to proceed to Working Group ballot

No plenary session teleconference planned

IEEE 802.3 Beyond 400 Gb/s Ethernet Study Group

Description

Develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses:

(1) Beyond 400 Gb/s Ethernet

(2) Physical Layer specifications for existing Ethernet rates based on Physical Layer specifications for beyond 400 Gb/s Ethernet.

Web site: <https://ieee802.org/3/B400G/index.html>

Status

The Study Group completed development of the draft IEEE P802.3df IEEE Standard for Ethernet Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Operation PAR, as well as supporting CSD and objectives

Draft PAR: <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0224-01-00EC-par-ieee-p802-3df.pdf>

Draft CSD: <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0225-00-00EC-csd-ieee-p802-3df.pdf>

Draft objectives: https://ieee802.org/3/B400G/proj_doc/objectives_b400g_210826.pdf

Meeting plan

Progress the necessary draft PAR, CSD and objectives approval

Plenary session teleconference planned for 15h00 UTC Tuesday 16 November 2021

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group

Description

develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for greater than 10 Mb/s long-reach point-to-point Single-Pair Ethernet PHYs and associated powering

Web site: <https://ieee802.org/3/GT10MSPE/index.html>

Status

First meeting held on Wednesday 29 September 2021

Meeting plan

Progress towards developing PAR, CSD responses and objectives

Plenary session teleconference planned for 15h00 UTC Wednesday 10 November 2021

IEEE 802.3 Power Distribution Coordinating Committee (PDCC) Ad Hoc

Description

Review output and build consensus on draft input for liaisons regarding power delivery over cabling cited in IEEE 802.3 standards and projects, e.g.:

- Build consensus on responses to public input proposals received as part of the next edition of NFPA70; and consider any other NFPA related items of interest, such as proposed Tentative Interim Amendments (TIA)

- Build consensus on draft input to IEC TC64/PT716, and proposed direction of the IEEE 802.3 Category C liaison expert

- Build consensus on draft input to IEC TC108/PT63315, and proposed direction of the IEEE 802.3 Category C liaison expert

Web site: https://ieee802.org/3/ad_hoc/PDCC/index.html

Meeting plan

Review of latest IEC TC108/PT63315 draft

First plenary session teleconference planned for 17h00 UTC Wednesday 10 November 2021

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

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

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

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

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

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

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

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

IEEE P802.3 (IEEE 802.3dc) Revision to IEEE Std 802.3-2018 (Maintenance #16): Adam Healey <adam.healey@broadcom.com>

IEEE P802.3dd Power over Data Lines of Single Pair Ethernet (Maintenance #17): George Zimmerman <george@cmephyconsulting.com>

IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet: George Zimmerman <george@cmephyconsulting.com>

IEEE 802.3 Task Force vice-chairs

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

IEEE P802.3cw 400 Gb/s over DWDM systems: Tom Issenhuth <tissenhuth@outlook.com>

IEEE P802.3db 100 Gb/s, 200 Gb/s, and 400 Gb/s Short Reach Fiber: Mabud Choudhury <mchoudhury@ofsoptics.com>

IEEE 802.3 Study Group chair

IEEE 802.3 Beyond 400 Gb/s Ethernet Study Group John D'Ambrosia <jdambrosia@ieee.org>

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet: George Zimmerman <george@cmephyconsulting.com>

IEEE 802.3 Study Group vice-chair

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet: Steve Carlson <scarlson@ieee.org>

Upcoming meetings

Please see <http://www.ieee802.org/3/calendar.html> for latest calendar of meetings

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

Today ◀ ▶ November 2021 ◻ Print Week Month Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1 Nov	2	3	4	5	6
7	8	9	10	11	12	13
IEEE 802.3 November 2021 virtual plenary week 1						
14:00 IEEE 802.3 November 2021 Opening Plenary 16:00 IEEE P802.3 DA Plenary Series Meeting 17:00 IEEE P802.3db TF Plenary Week Meeting 20:00 IEEE P802.3cs TF Plenary meeting						
13:00 IEEE P802.3cz Plenary teleconference 15:00 IEEE 802.3 Maintenance Meeting - 15:00 IEEE P802.3cy plenary series						
13:00 IEEE P802.3cz Plenary teleconference 15:00 IEEE 802.3 Greater than 10 Mb/s L 15:00 IEEE 802.3cx Improving PTP TS Ac 17:00 PDCC Weekly Ad Hoc Plenary Meeting						
14:00 IEEE 802.3 November 2021 Mid-session Plenary 17:00 IEEE P802.3db TF Plenary Week Meeting 19:00 IEEE P802.3cs TF Plenary meeting						
14	15	16	17	18	19	20
IEEE 802.3 November 2021 virtual plenary week 2						
15:00 IEEE 802.3 Maintenance Meeting - 15:00 IEEE P802.3cw Mtg - Nov 2021 Plenary						
13:00 IEEE P802.3cz Plenary teleconference 15:00 IEEE 802.3 B400G Study Group - 15:00 IEEE P802.3da 10Mbps SPMD Plenary Series 15:00 IEEE P802.3cy plenary series 17:00 IEEE P802.3db TF Plenary Week Meeting 17:00 802.3dd Maintenance #17: Clause						
13:00 IEEE P802.3cz Plenary teleconference 15:00 P802.3da 10Mbps SPMD Plenary Series 17:00 IEEE P802.3db TF Interim Series						
18:00 PDCC Weekly Ad Hoc Plenary Meeting						
21	22	23	24	25	26	27
15:00 IEEE P802.3cw Task Force Electronics Meeting 15:00 IEEE P802.3cy Task Force ad hoc meeting 16:00 IEEE P802.3db TF Interim Series						
18:00 PDCC Weekly Ad Hoc						
28	29	30	1 Dec	2	3	4
13:00 IEEE P802.3cz Interim TF teleconference 15:00 IEEE P802.3cw Task Force Meeting 15:00 IEEE P802.3cy Task Force ad hoc meeting						
15:00 P802.3da 10Mbps SPMD interim 18:00 PDCC Weekly Ad Hoc						

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

If the calendar above does not display, please try [the alternate calendar view](#) which will always display in UTC.

To subscribe to this calendar in your personal logged-in Google account calendar, use the "+ Google Calendar" button in the lower right corner of the calendar view above.

To subscribe to this calendar using other calendar applications use this [iCalendar subscription link URL](#).

As an example, for Outlook follow these [instructions](#) using the above iCalendar subscription link URL as the address of the internet calendar to add to Outlook.

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 802.3cr-2021 Amendment 10: Maintenance #14: Isolation 9-Feb-21/24-Feb-21*</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 802.3cu-2021 Amendment 11: Physical Layers and Management Parameters for 100 Gb/s and 400 Gb/s Operation over Single-Mode Fiber at 100 Gb/s per Wavelength 9-Feb-21/26-Feb-21*</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>	<p>IEEE Std 802.3cv-2021 Amendment 12: Maintenance #15: Power over Ethernet 9-May-21/28-May-21*</p>

State of the standard

Current amendments (con't)

IEEE Std 802.3-2018 amendments

IEEE Std 802.3ct-2021

Amendment 13: Physical Layers and
Management Parameters for 100 Gb/s
Operation over DWDM systems

16-Jun-21/9-Jul-21*

IEEE Std 802.3cp-2021

Amendment 14: Bidirectional 10 Gb/s, 25
Gb/s, and 50 Gb/s Optical Access PHYs

16-Jun-21/16-Jul-21*

State of the standard

Other IEEE 802.3 standards

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

IEEE 802.3 Beyond
400 Gb/s Ethernet
Study Group

IEEE 802.3 Greater
than 10 Mb/s Long-
Reach Single Pair
Ethernet Study
Group

IEEE P802.3cw
400 Gb/s over
DWDM systems
[Second Task
Force review](#)

IEEE P802.3da
10 Mb/s Single Pair
Multidrop Segments
Enhancement
[Baseline selection](#)

IEEE P802.3cz
Multi-Gigabit Optical
Automotive Ethernet
[Baseline selection](#)

IEEE P802.3cy
Greater than 10 Gb/s
Electrical Automotive
Ethernet
[Baseline selection](#)

IEEE P802.3de Time
Synchronization for
Point-to-Point Single
Pair Ethernet
[D1.0 Working
Group preview](#)

Task Force

IEEE P802.3cx Improved
PTP Timestamping
Accuracy
[D2.0 Initial Working
Group ballot](#)

IEEE P802.3db
100 Gb/s, 200 Gb/s, and 400
Gb/s Short Reach Fiber
[D2.0 Initial Working
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IEEE P802.3dd
Power over Data Lines of
Single Pair Ethernet
(Maintenance #17)
[D2.0 Initial Working
Group ballot](#)

IEEE P802.3
(IEEE 802.3dc) Ethernet
revision (Maintenance #16)
[D2.1 First Working Group
recirculation ballot](#)

IEEE P802.3cs
Increased-reach Ethernet
optical subscriber
access (Super-PON)
[D2.4 Fourth Working Group
recirculation ballot](#)

IEEE P802.3ck
100 Gb/s, 200 Gb/s, and 400
Gb/s Electrical Interfaces
[D2.3 Third Working Group
recirculation ballot](#)

Progress to standard 