

IEEE 802.3 Working Group November 2017 Plenary Week Report

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IEEE 802.3 Maintenance

Maintenance closing report

http://www.ieee802.org/3/minutes/nov17/1117_maint_close_report.pdf

Activities

Review of outstanding Maintenance Requests

Adoption of IEEE 802.3 standards by ISO/IEC JTC1 SC6

Responded to China NB comment on IEEE Std 802.3bw-2015 FDIS ballot

IEEE P802.3 (IEEE 802.3cj) Standard for Ethernet Maintenance #12 (revision)

Progressed to Sponsor ballot

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page

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

IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_bt_close_report.pdf

Progress

Heard 16 presentations

1st Sponsor recirculation ballot comment resolution

Responded to 484 comments

Next steps

Conduct 2nd Sponsor recirculation ballot of draft IEEE P802.3bt/D3.2

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s Ethernet Passive Optical Networks Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_ca_close_report.pdf

Progress

Heard 26 presentations,

Major items discussed: FEC; Channel Control Protocol; power budgets;
2x25Gbps versus 1x50Gbps

Passed 7 technical motions

Modification of Task Force Objectives: Delete '100 Gb/s in downstream and less than or equal to 100 Gb/s in upstream' (yet to be approved by Working Group)

Next steps

Continue selection of baseline proposals to satisfy project objectives

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_cb_close_report.pdf

Progress

Completion of 1st Sponsor recirculation ballot comment resolution

Response to IEEE P802.3cb/D3.1 comment r01-10 updated

Next steps

Conduct 2nd Sponsor recirculation ballot of draft IEEE P802.3cb/D3.2

Next meeting at December 2017 teleconference interim meeting

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

IEEE P802.3cd 50 Gb/s, 100 Gb/s and 200 Gb/s Ethernet Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_cd_close_report.pdf

Progress

Heard 6 presentations

2nd Working Group recirculation ballot comment resolution

Completed responses to 31 comments

Unconditional approval granted to proceed to sponsor ballot

Next steps

Conduct initial Sponsor ballot on draft IEEE P802.3cd/D3.0

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model Definitions Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_cf_close_report.pdf

Progress

IEEE P802.3.2 (802.3cf)/D1.2 Task Force review comment resolution

Completed responses to 26 comments

Major items

Adopted revised modules for transition to NMDA style

Review and adopt YANG guidelines for IEEE 802.3

Next steps

Conduct Task Force review on IEEE P802.3.2 (802.3cf)/D1.3

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_cg_close_report.pdf

Progress

Major items discussed, decisions made and actions

Adopted baselines for: Short reach PHY; Single-pair auto negotiation; Clause 104 powering; Optional PHY-level Collision Avoidance in RS

Decided to postpone bringing new multidrop objective to IEEE 802.3 to January
Chartered generation of draft D1.0

Next steps

Begin Task Force review of draft and adopted baselines

Refine and finalize objectives as appropriate

See 10 Mb/s Backplane Ethernet Study Group report below

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

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

Task Force closing report

http://www.ieee802.org/3/minutes/nov17/1117_ch_close_report.pdf

Progress

Major items discussed

SDP screening and coupling attenuation; RF ingress test from automotive ALSE test to 3 GHz, next pass to 5 GHz; BCI tests; EMC environment; IL and RL to 7.5 GHz; possible TX-PSD mask

Next steps

Selection of baseline proposals to satisfy project objectives

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

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

IEEE 802.3 Beyond 10 km Optical PHYs for 50Gb/s, 200 Gb/s, and 400Gb/s Ethernet Study Group

Study Group closing report

http://www.ieee802.org/3/minutes/nov17/1117_b10k_100G_close_report.pdf

Progress

Heard 7 presentations

Support for modifying scope to include 100Gb/s

Formation of a new IEEE 802.3 study group for beyond 10 km Optical PHYs for 50Gb/s, 100 Gb/s, 200 Gb/s, and 400Gb/s Ethernet approved

See Beyond 10km Optical 100 Gb/s PHYs call for interest report below

Next steps

New IEEE 802.3 Beyond 10 km Optical PHYs for 50Gb/s, 100 Gb/s, 200 Gb/s, and 400Gb/s Ethernet Study Group will meet for first time during January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Web page:

<http://www.ieee802.org/3/B10K/index.html>

IEEE 802.3 New Ethernet Applications (NEA) Ad Hoc

Closing report

http://www.ieee802.org/3/minutes/nov17/1117_NEA_close_report.pdf

New Efforts Requested during week

Switch Latency in Industrial Networks

Higher rate P2P Ethernets for optical access, including the features of single-fiber working, silent start, power saving, and management

Super-PON technologies: methods to scale fully passive optical access networks to longer reaches and to significantly higher numbers of subscribers

EPON 50G serial rate for 50Gb/s (1x50G) and 100Gb/s (2x50G) full duplex, symmetric, service rates

Next meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

10 Mb/s Backplane Ethernet call for interest

10 Mb/s Backplane Ethernet CFI closing report

http://www.ieee802.org/3/minutes/nov17/1117_10M_BP_close_report.pdf

Study Group formation approved

IEEE 802.3 10Mb/s Backplane Ethernet Study Group

The scope of the Study Group is to develop Project Authorization Request (PAR) and Criteria for Standards Development (CSD) modifications to the IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet PAR and CSD to add 10 Mb/s Backplane Ethernet to the project

First Study Group meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Beyond 10km Optical 100 Gb/s PHYs call for interest

Beyond 10km Optical 100 Gb/s PHYs CFI closing report

http://www.ieee802.org/3/minutes/nov17/1117_b10k_100G_close_report.pdf

IEEE 802.3 Beyond 10 km Optical PHYs for 50Gb/s, 200 Gb/s, and 400Gb/s Ethernet Study Group supported modifying scope to include 100Gb/s

Study Group formation approved

IEEE 802.3 Beyond 10 km Optical PHYs for 50Gb/s, 100 Gb/s, 200 Gb/s, and 400Gb/s Ethernet Study Group

The scope of the Study Group is to develop Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for beyond 10 km Optical PHYs for 50Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s Ethernet

First Study Group meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

100 Gb/s per Lane for Electrical Interfaces and PHYs call for interest

100 Gb/s per Lane for Electrical Interfaces and PHYs CFI closing report

http://www.ieee802.org/3/minutes/nov17/1117_100G_elec_close_report.pdf

Study Group formation approved

IEEE 802.3 100 Gb/s per Lane for Electrical Interfaces and Electrical PHYs
Study Group

The scope of the Study Group is to develop Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for 100 Gb/s per Lane for Electrical Interfaces and Electrical PHYs

First Study Group meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

Next-generation 200 Gb/s and 400 Gb/s MMF PHYs call for interest

Next-generation 200 Gb/s and 400 Gb/s MMF PHYs CFI closing report

http://www.ieee802.org/3/minutes/nov17/1117_NG_MMF_close_report.pdf

Study Group formation approved

IEEE 802.3 Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Study Group

The scope of the Study Group is to develop Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for next-generation 200 Gb/s and 400 Gb/s PHYs over fewer MMF pairs than in existing Ethernet projects and standards

First Study Group meeting at January 2018 interim meeting series

Full details at: <http://www.ieee802.org/3/interims/>

IEEE 802.3 Officers

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

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

IEEE 802.3 Secretary: Pete Anslow <panslow@ciena.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 P802.3bs 200 Gb/s and 400 Gb/s Ethernet: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3bt DTE Power via MDI over 4-Pair: Chad Jones <cmjones@cisco.com>

IEEE P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.com>

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane Cables: Dan Smith <daniel.f.smith@seagate.com>

IEEE P802.3cc 25 Gb/s Ethernet over Single-Mode Fiber: David Lewis <David.Lewis@lumentum.com>

IEEE P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE 802.3.2 (IEEE 802.3cf) YANG Data Model: Yan Zhuang <zhuangyan.zhuang@huawei.com>

IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet: George Zimmerman <george@cmephyconsulting.com>

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

IEEE 802.3 Study Group chairs

IEEE 802.3 10Mb/s Backplane Ethernet (acting): Jon Lewis <jon.lewis@dell.com>

IEEE 802.3 Beyond 10km Optical PHYs (acting): John D'Ambrosia <jdambrosia@ieee.org>

IEEE 802.3 100 Gb/s per Lane for Electrical Interfaces & PHYs (acting): Elizabeth Kochuparambil <edonnay@cisco.com>

IEEE 802.3 Next-generation 200 Gb/s and 400 Gb/s MMF PHYs Robert Lingle (acting): <rlingle@ofsoptics.com>

Working Group information

IEEE 802.3 Web site (presentations, minutes, reflector subscription, etc.)

<http://www.ieee802.org/3>

Interim TF and SG meeting details posted on web site

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

Announced so far, please check above URL for up to date information

IEEE 802.3cb contingent teleconference interim meeting

18th December 2017

IEEE 802.3 Interim meeting series

22nd through 26th January 2018, Geneva, Switzerland

IEEE 802 plenary meeting series

5th through 8th March 2018, Rosemont, IL, USA