

IEEE 802.3 Working Group July 2018 Plenary Week Report

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IEEE 802.3 Maintenance

Maintenance closing report

http://www.ieee802.org/3/minutes/jul18/0718_maint_close_report.pdf

Activities

Review of outstanding Maintenance Requests

Presentation Clause 90 data delay measurements

Concerns in respect to PHYs that insert alignment markers

Developed Clause 33 maintenance PAR

IEEE P802.3cq Maintenance #13: Power over Ethernet over 2 pairs

Developed Isolation maintenance PAR

IEEE P802.3cr Maintenance #14: Isolation

IEEE P802.3cq and IEEE P802.3cr PAR Status

Approved by IEEE 802 Executive Committee

Submitted to September 2018 NesCom agenda

Next meeting is an September 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/jul18/0718_bt_close_report.pdf

Progress

6th Sponsor recirculation ballot comment resolution

Responded to the 2 comments received

Progressed to 7th Sponsor recirculation ballot

Obtained conditional approval to submit to RevCom

Next steps

Conduct 7th Sponsor recirculation ballot of draft IEEE P802.3bt/D3.7

Progress IEEE-SA Standards Board approval of IEEE P802.3bt

Next meeting is an August 2018 contingent interim teleconference

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 and 50 Gb/s Ethernet Passive Optical Networks Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/jul18/0718_ca_close_report.pdf

Progress

IEEE P802.3ca D1.1 Task Force review comment resolution

Completed responses to 243 comments

Agreed modified IEEE P802.3ca PAR and objectives

Removed 100 Gb/s Operation from scope and objectives

Agreed IEEE P802.3ca PAR extension request

Next steps

Progress PAR modification request and extension

Continue work towards technically complete draft for working group ballot

Next meeting at September 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/jul18/0718_cb_close_report.pdf

Progress

5th Sponsor recirculation ballot closed with no comments

Obtained approval to submit to RevCom

Next steps

Progress IEEE-SA Standards Board approval of IEEE P802.3cb

No further meetings expected

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/jul18/0718_cd_close_report.pdf

Progress

Heard 12 technical contributions

3rd Sponsor recirculation ballot comment resolution

Completed responses to 46 comments

Big Ticket Item progress

TDECQ –Changes adopted to methodology and values

Next steps

Conduct 4th Sponsor recirculation ballot of draft IEEE P802.3cb/D3.4

Next meeting at September 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/jul18/0718_cf_close_report.pdf

Progress

2nd Working Group recirculation ballot comment resolution

Completed responses to 19 comments

Obtained conditional approval to proceed to Sponsor Ballot

Next steps

Conduct 3rd Working Group recirculation ballot of draft IEEE 802.3cf/D2.2

Progress moving to Sponsor Ballot

Next meeting is an August 2018 contingent interim teleconference

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 Pair Ethernet Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/jul18/0718_cg_close_report.pdf

Progress

IEEE P802.3cg D1.3 Task Force review comment resolution

Completed responses to 147 comments

Approval obtained to proceed to Working Group ballot

Next steps

Conduct initial Working Group ballot IEEE P802.3cg/D2.0

Next meeting at September 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/jul18/0718_ch_close_report.pdf

Progress

Technical decisions

- Added OAM channel

- Updated link segment specifications

- Adopted: PAM-4 for 2.5, 5 and 10 Gb/s; Reed-Solomon with 10-bit RS symbol, plus interleaving if needed; 5.625 GBaud for 10 Gb/s; 5 Gb/s is $\frac{1}{2}$ this rate; 2.5 Gb/s is $\frac{1}{4}$ this rate; “Link Synchronization” from 1000BASE-T1; differential characteristic impedance text

Next steps

Editor to produce D0.5 for first Task Force review

Next meeting at September 2018 interim meeting series

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

Web page:

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

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

Task Force closing report

http://www.ieee802.org/3/minutes/jul18/0718_ck_close_report.pdf

Progress

Heard 11 technical contributions

Next steps

Continue baseline selection to satisfy the project objectives

Next meeting at September 2018 interim meeting series

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

Web page:

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

IEEE P802.3cm 400 Gb/s over Multimode Fiber Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/jul18/0718_cm_close_report.pdf

Progress

Heard 2 technical contributions

Adopted a baseline proposal for the 4-pair objective

Next steps

Continue baseline selection to satisfy the project objectives

Next meeting at September 2018 interim meeting series

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

Web page:

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

IEEE 802.3 Beyond 10 km Optical PHYs Study Group

Study Group closing report

http://www.ieee802.org/3/minutes/jul18/0718_b10k_close_report.pdf

Progress

IEEE P802.3cn PAR and CSD approved by IEEE 802 Executive Committee

IEEE P802.3cn PAR on September 2018 NesCom agenda

Study Group extended and re-chartered until next plenary

Study Group will meet during September 2018 interim meeting series

IEEE-SA Standards Board will not consider approval of PAR until after
September interim

Next steps

Continue consensus building

Next meeting at September 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 Bidirectional 10 Gb/s and 25 Gb/s Optical Access PHYs Study Group

Study Group closing report

http://www.ieee802.org/3/minutes/jul18/0718_bidi_close_report.pdf

Progress

Support for modifying scope to include 50Gb/s

Formation of a new IEEE 802.3 Study Group for Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs

See Bidirectional 50Gb/s optical access PHYs call for interest report below

Next steps

New IEEE 802.3 Study Group for Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs Study Group will meet for first time during September 2018 interim meeting series

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

Web page:

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

IEEE 802.3 New Ethernet Applications (NEA) Ad Hoc

Closing report

http://www.ieee802.org/3/minutes/jul18/0718_NEA_close_report.pdf

New Efforts Requested during week

Ethernet Bandwidth Assessment

Revisiting the 2012 Ethernet Bandwidth Assessment and expansion to include other application spaces

Overview of 802.11 Ethernet Cabling Requirements Work

WAP Support / BASE-T / PoE

Potential additional applications for WDM

Next meeting at September 2018 interim meeting series

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

Bidirectional 50Gb/s optical access PHYs call for interest

Bidirectional 50Gb/s optical access PHYs CFI closing report

http://www.ieee802.org/3/minutes/jul18/0718_bidi_50_close_report.pdf

IEEE 802.3 Bidirectional 10 Gb/s and 25 Gb/s Optical Access PHYs Study Group supported modifying scope to include 50Gb/s

Study Group formation approved

IEEE 802.3 Study Group for Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs Study Group

The scope of the Study Group is to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Bidirectional 10 Gb/s, 25 Gb/s and 50Gb/s Optical Access PHYs Study Group

First Study Group meeting at September 2018 interim meeting series

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

Ethernet Access PMDs for Central Office Consolidation (Super-PON) call for interest

Ethernet Access PMDs for Central Office Consolidation CFI closing report

http://www.ieee802.org/3/minutes/jul18/0718_spon_close_report.pdf

Study Group formation approved

Ethernet Access PMDs for Central Office Consolidation (Super-PON) Study Group

The scope of the Study Group is to develop a Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Ethernet Physical Layer specifications for optical subscriber access supporting point-to-multipoint operations using wavelength division multiplexing over an increased-reach passive optical network (PON)

First Study Group meeting at September 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 P802.3bt 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 P802.3cd 50 Gb/s, 100 Gb/s, and 200 Gb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE P802.3.2 (IEEE 802.3cf) YANG Data Model: Yan Zhuang <zhuangyan.zhuang@huawei.com>

IEEE P802.3cg 10 Mb/s Single Pair Ethernet: George Zimmerman <george@cmephyconsulting.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 P802.3cm 400 Gb/s over Multimode Fiber: Robert Lingle <rlingle@ofsoptics.com>

IEEE 802.3 Study Group chairs

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

IEEE 802.3 Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs (acting):

Frank Effenberger <frank.effenberger@huawei.com>

IEEE 802.3 Ethernet Access PMDs for Central Office Consolidation (Super-PON) (acting):

Claudio DeSanti <cdssdc@google.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 P802.3bt contingent teleconference interim meeting

13th August 2018

IEEE P802.3.2 (802.3cf) contingent teleconference interim meeting

14th August 2018

IEEE 802.3 Interim meeting series

10th through 15th September 2018, Spokane, WA, USA

IEEE 802 plenary meeting series

12th through 15th November 2018, Bangkok, Thailand