

IEEE 802.3 Working Group November 2018 Plenary Week

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Web site: www.ieee802.org/3

IEEE 802.3 Maintenance

Maintenance closing report

http://www.ieee802.org/3/minutes/nov18/1118_maint_close_report.pdf

Activities

Review of outstanding Maintenance Requests

Considered MEF liaison letter on MEF 63 and Operator L1 Service Attributes

Next meeting is an January 2019 interim meeting series

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

Web page

<http://www.ieee802.org/3/maint/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/nov18/1118_ca_close_report.pdf

Progress

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

Completed responses to 277 comments

Review of IEEE P802.3ca PAR modification request and extension

Next steps

Progress IEEE P802.3ca PAR modification request and extension

Conduct Task Force review on IEEE P802.3ca D1.4

Continue work towards technically complete draft for working group ballot

Next meeting at January 2019 interim meeting series

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

Web page:

<http://www.ieee802.org/3/ca/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/nov18/1118_cf_close_report.pdf

Progress

IEEE P802.3.2 (IEEE 802.3cf) D3.0 Initial Sponsor ballot comment resolution

Completed responses to 246 comments

Consider ITU-T SG15 on Coordination of Ethernet information and data modelling work

Next steps

Conduct IEEE P802.3.2 (IEEE 802.3cf) D3.1 first Sponsor recirculation ballot

Next meeting at January 2019 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 Pair Ethernet Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov18/1118_cg_close_report.pdf

Progress

IEEE P802.3cg D2.1 first Working Group recirculation ballot comment resolution

Completed responses to 503 comments

Major issues were scope and how PLCA relates to the defined CSDs of the project

Next steps

Conduct IEEE P802.3cg D2.2 second Working Group recirculation ballot

Next meeting at January 2019 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/nov18/1118_ch_close_report.pdf

Progress

Technical decisions

Adopted updated link segment specifications for 2.5,5 and 10 Gb/s links, EEE LPI parameters baseline, transmit PSD mask for all rates, PHY control state diagrams, FEC interleaving combinations, Clause 45 registers and text, PoDL baseline and text, “the item formerly known as OAM” extensions, 33-bit data and training scrambler baseline, and Test Mode 3

IEEE P802.3ch D0.6 second Task Force review comment resolution

Completed responses to 43 comments

Next steps

Conduct IEEE P802.3ch D1.0 third Task Force review

Next meeting at January 2019 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/nov18/1118_ck_close_report.pdf

Progress

Heard 28 Presentations and held 13 Straw Polls

Key Technical Progress

C2M: Strongest interest is RX heavy equalization

C2C: In use-case discussion

Backplane: Channels coming in, discussions underway around reference equalization and chip package assumptions – much more to come!

Copper Cable: Measurements and realities of tolerances being addressed

General consensus is that the budget is very tight

Next steps

Continue baseline selection to satisfy the project objectives

Next meeting at January 2019 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/nov18/1118_cm_close_report.pdf

Progress

Heard 3 presentation

IEEE P802.3cm D1.0 first Task Force review comment resolution

Completed responses to 50 comments

Placeholder “clause 200” in D1.0 becomes clause 150 in D1.1 for 400GBASE-SR4.2

Next steps

Conduct IEEE P802.3cm D1.1 second Task Force review

Next meeting at January 2019 interim meeting series

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

Web page:

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

IEEE P802.3cn 50 Gb/s, 100 Gb/s, 200 Gb/s, and 400 Gb/s over Single-Mode Fiber and DWDM Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov18/1118_cn_close_report.pdf

Progress

Heard 14 technical presentations

Agreed nomenclature

50GBASE-ER	50 Gb/s operation over at least 40 km of SMF
200GBASE-ER4	200 Gb/s operation over four wavelengths capable of at least 40 km of SMF
400GBASE-ER8	400 Gb/s operation over eight wavelengths capable of at least 40 km of SMF
100GBASE-ZR	100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system
400GBASE-ZR	400 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system

Agreed to divide project into two projects

IEEE P802.3cn PAR modification request: Standard for Ethernet Amendment: Physical Layers and Management Parameters for 50 Gb/s, 200 Gb/s, and 400 Gb/s Operation over Single-Mode Fiber

New IEEE P802.3ct PAR: Standard for Ethernet Amendment: Physical Layers and Management Parameters for 100 Gb/s and 400 Gb/s Operation over DWDM (dense wavelength division multiplexing) systems

Next steps

Progress approval of IEEE P802.3cn PAR modification request and IEEE P802.3ct PAR

Develop draft based on adopted baselines for 40 km related objectives

Next meeting at January 2019 interim meeting series

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

Web page:

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

IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force

Task Force closing report

http://www.ieee802.org/3/minutes/nov18/1118_cq_close_report.pdf

Progress

Heard 2 presentations

IEEE P802.3cq D1.0 first Task Force review comment resolution

Completed responses to 18 comments

Next steps

Conduct IEEE P802.3cq D1.1 second Task Force review

Next meeting during March 2019 plenary meeting

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

Web page:

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

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

Task Force closing report

http://www.ieee802.org/3/minutes/nov18/1118_cr_close_report.pdf

Progress

Reviewed Isolation Ad Hoc recommendations

Reviewed potential timelines

Chartered ad hoc to speed progress

Next steps

Progress development of initial draft

Next meeting at January 2019 interim meeting series

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

Web page:

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

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

Study Group closing report

http://www.ieee802.org/3/minutes/nov18/1118_bidi_close_report.pdf

Progress

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

IEEE P802.3cp PAR on December 2018 NesCom agenda

Study Group re-chartered until next plenary

Backup if PAR not approved by IEEE-SA Standards Board

Work of Study Group complete

Assuming PAR approval by IEEE-SA Standards Board

If not Study Group will meet again in January 2019

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

Web page:

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

IEEE 802.3 Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Study Group.

Study Group closing report

http://www.ieee802.org/3/minutes/nov18/1118_spon_close_report.pdf

Progress

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

IEEE P802.3cs PAR on December 2018 NesCom agenda

Study Group re-chartered until next plenary

Backup if PAR not approved by IEEE-SA Standards Board

Work of Study Group complete

Assuming PAR approval by IEEE-SA Standards Board

If not Study Group will meet again in January 2019

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

Web page:

http://www.ieee802.org/3/SUPER_PON/index.html

IEEE 802.3 Industry Connections New Ethernet Applications (NEA) Ad Hoc

Closing report

http://www.ieee802.org/3/minutes/nov18/1118_NEA_close_report.pdf

Progress

Current activities

Switching Latency: Effort moving back into IEEE 802.1

Automotive Optical Multigig: Targeting CFI in July 2019

Ethernet Bandwidth Assessment: Broadband Development Status and Trend in China presentation

New activities

25GBASE-T over minimum 50m

IEEE 802.3 NEA ICAID (renewal) approved by IEEE 802 Executive Committee

IEEE 802.3 NEA ICAID on December 2018 NesCom agenda

Next steps

Progress IEEE 802.3 NEA ICAID approval by IEEE-SA Standards Board

Next meeting at January 2019 interim meeting series, assuming IEEE 802.3 NEA ICAID approval

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

Web page:

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

IEEE 802.3 100 Gb/s Lambda call for interest

100 Gb/s Lambda call for interest closing report

http://www.ieee802.org/3/minutes/nov18/1118_100G_lambda_close_report.pdf

Study Group formation approved

IEEE 802.3 100 Gb/s Lambda Study Group

The scope of the Study Group is to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for 100 Gb/s per lane optical PHYs for 2 km and 10 km for 100 Gb/s Ethernet and 400 Gb/s Ethernet

First Study Group meeting at January 2019 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 P802.3ca 25 Gb/s, 50 Gb/s, and 100 Gb/s EPON: Curtis Knittle <c.knittle@cablelabs.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 P802.3cn 50Gb/s, 100Gb/s, 200Gb/s, and 400Gb/s over SMF and DWDM Task Force: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3cq Power over Ethernet over 2 Pairs (Maintenance #13) Task Force: Chad Jones <cmjones@cisco.com>

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

IEEE 802.3 Study Group chairs

IEEE 802.3 Bidirectional 10 Gb/s, 25 Gb/s and 50 Gb/s Optical Access PHYs: Frank Effenberger <frank.effenberger@huawei.com>

IEEE 802.3 Ethernet Access PMDs for Central Office Consolidation (Super-PON): Claudio DeSanti <cdssdc@google.com>

IEEE 100 Gb/s Lambda: Mark Nowell (acting) <mnowell@cisco.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 802.3 Interim meeting series

14th through 18th January 2019, Long Beach, CA, USA

IEEE P802.3cg interim meeting

19th and 20th February 2019, either San Jose, CA, USA, or in the Southwestern USA

IEEE 802 plenary meeting series

11th through 14th March 2019, Vancouver, BC, Canada