IEEE 802.3 motions for consent agenda

IEEE 802 LMSC
Friday 17 November 2023
X.xxx ME*: IEEE P802.3-2022/Cor 1
(IEEE 802.3dn) Multi-Gigabit Automotive
MDI return loss PAR to NesCom (48-hour rule)
IEEE P802.3-2022/Cor 1 (IEEE 802.3dn) Multi-Gigabit Automotive MDI return loss PAR to NesCom (48-hour rule)

Title
Corrigendum 1: Multi-Gigabit Automotive MDI return loss

Type of Project
Corrigendum to IEEE Standard 802.3-2022

Scope of proposed changes
Corrections to MDI return loss equations 149–27 and 165–42 and to figure 165–38 ‘MDI return loss calculated limit in Equation (165–42).

Need
There are sign errors in MDI return loss Equations (149–27) and (165–42) and in Figure 165–38 ‘MDI return loss calculated limit in Equation (165–42)’ that need to be corrected.
IEEE P802.3-2022/Cor 1 (IEEE 802.3dn) Multi-Gigabit Automotive MDI return loss PAR to NesCom (48-hour rule)

Motion:
Approve forwarding IEEE P802.3-2022/Cor 1 (IEEE 802.3dn) PAR documentation in https://mentor.ieee.org/802-ec/dcn/23/ec-23-0210-00-00EC-ieee-p802-3-2022-cor-1-draft-par.pdf to NesCom

M: Law S: D'Ambrosia
Y: ??, N: ??, A: ??

Working Group vote
Y: ??, N: ??, A: ??
X.XXX ME*: IEEE P802.3cw to Standards Association ballot (conditional)
IEEE P802.3cw to Standards Association ballot (conditional)

Date the ballot closed
5\textsuperscript{th} Working Group recirculation ballot on IEEE P802.3cw 400 Gb/s over DWDM Systems draft D2.5 closed 16 October 2023 at 23:59 AOE (23:59 UTC -12)

Vote tally

<table>
<thead>
<tr>
<th></th>
<th>Initial Draft D2.0</th>
<th>1\textsuperscript{st} Recirculation Draft D2.1</th>
<th>2\textsuperscript{nd} Recirculation Draft D2.2</th>
<th>3\textsuperscript{rd} Recirculation Draft D2.3</th>
<th>4\textsuperscript{th} Recirculation Draft D2.4</th>
<th>5\textsuperscript{th} Recirculation Draft D2.5</th>
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<td>17 10 PASS</td>
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<td>115</td>
<td>89 PASS</td>
<td>130 91 PASS</td>
<td>141 95 PASS</td>
<td>145 96 PASS</td>
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<td>159 70 PASS</td>
<td>166 74 PASS</td>
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<td>25 - -</td>
<td>38 - -</td>
<td>14 - -</td>
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</table>

* Increase from 224 to 225 due to an ex-officio member casting a vote (subclause 4.2 'Voting Membership' of IEEE 802 LMSC Working Group Policies and Procedures says ‘Ex-officio members are allowed to vote on any Working Group motion or ballot, but are not counted towards quorum requirements or ballot return requirements if they don't vote.’).
Comments that support the remaining disapprove votes and WG responses

A total of 38 unsatisfied TR comments from 1 disapprove voter

See: https://mentor.ieee.org/802-ec/dcn/23/ec-23-0220-00-00EC-ieee-p802-3cw-unsatisfied-comments.pdf

Summary of Unsatisfied Comments:

Clause 116 (200/400 Introduction): use of “400ZR” 2
Clause 155 (PCS/PMA): codeword/test vector examples 5
Clause 155 (PCS/PMA): project cancellation 2
Clause 155 (PCS/PMA): generic operation of hamming encoder 3
Clause 156 (optical): laser frequency noise 14
Clause 156 (optical): EVM calculation 4
Clause 156 (optical): optical parameters 3
Clause 156 (optical): I-Q parameters 3
Clause 156 (optical): reference receiver 1
Clause 156 (optical): transmit spectrum 1

Clause 12 ‘Procedure for conditional approval to forward a draft standard’ of IEEE 802 LMSC Operations Manual includes the text ‘Where a voter has accepted some comment resolutions and rejected others, only the comments of which the voter has not accepted resolution should be presented.’.
IEEE P802.3cw to Standards Association ballot (conditional)

CSD updates

[1] Distinct Identity updated based on ITU-T SG15 liaison letter to IEEE 802.3 informing us that they had remove the “G.698.2 addition of 200G and 400G” work item from their programme

While there are no other IEEE standards or projects with a similar scope, the IEEE 802.3 Working Group has received a liaison from two organizations indicating that the respective groups have completed related efforts underway. ITU-T Study Group 15 has communicated that it is working on a future revision of Recommendation ITU-T G.698.2 to include 400G application codes for multi-vendor interoperable 400 Gb/s single-channel optical interfaces that operate over a DWDM system for approximately 80 km distances. The Optical Internetworking Forum (OIF) has communicated that it is developed the 400ZR Implementation Agreement (IA), which is targeted at (passive) single channel and (amplified) short-reach DWDM (dense wavelength division multiplexing) / DCI (data center interconnect) pluggable modules with distances supported from 80-120 km. The effort will support 400 Gb/s Ethernet via the 400GAI-8 interface that is defined by IEEE 802.3.
IEEE P802.3cw to Standards Association ballot (conditional)

CSD updates (continued)

[2] Broad Market Potential updated to reflect approval of the IEEE Std 802.3ct-2021 100 Gb/s over DWDM systems. This means that IEEE P802.3cw will now provide an upgrade path from 100 over DWDM systems instead of 10 Gb/s.

- This project will provide upgrade paths for existing application areas that need greater bandwidth at the reaches specified. Applications over 80 km over DWDM systems migrating from 100 Gb/s do not have an upgrade path.
# IEEE P802.3cw to Standards Association ballot (conditional)

## Recirculation ballot and resolution meeting schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>6th Working Group recirculation ballot day one</td>
<td>8 November 2023</td>
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<tr>
<td>6th Working Group recirculation ballot close date</td>
<td>29 November 2023</td>
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<tr>
<td>IEEE P802.3cw comment resolution meeting</td>
<td>11 December 2023</td>
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<tr>
<td>7th Working Group recirculation ballot day one</td>
<td>18 December 2023</td>
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<td>7th Working Group recirculation ballot close date</td>
<td>3 January 2024</td>
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<tr>
<td>IEEE P802.3cw comment resolution meeting</td>
<td>8 January 2024</td>
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**Note 1:** 6th Working Group recirculation ballot already underway  
**Note 2:** 7th Working Group recirculation ballot only if required
IEEE P802.3cw to Standards Association ballot (conditional)

Motion:
Conditionally approve sending IEEE P802.3cw 400 Gb/s over DWDM Systems to Standards Association ballot
Confirm the updated CSD for IEEE P802.3cw in https://mentor.ieee.org/802-ec/dcn/23/ec-23-0211-00-00EC-ieee-p802-3cw-modified-csd.pdf

M: Law S: D'Ambrosia
Y: ??, N: ??, A: ??

Working Group vote

Y: ??, N: ??, A: ??
X.XXX ME*: IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet to RevCom (conditional)
IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet to RevCom (conditional)

Date ballot closed

The 1st Standards Association recirculation ballot on IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet draft D3.1 closed on 28 October 2023 at 23:59 UTC-12

Vote tally

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<tr>
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<th>Initial Draft D3.0</th>
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<tr>
<td>Abstain</td>
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IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet to RevCom (conditional)

Comments that support the remaining disapprove votes and WG responses

A total of 1 unsatisfied TR from 1 disapprove voter

See: https://mentor.ieee.org/802-ec/dcn/23/ec-23-0221-00-00EC-ieee-p802-3df-unsatisfied-comments.pdf

Summary of Unsatisfied Comment:

Annex 172A: “Mux and 10-bit symbol distribution” pattern examples

Clause 12 ‘Procedure for conditional approval to forward a draft standard’ of IEEE 802 LMSC Operations Manual includes the text ‘Where a voter has accepted some comment resolutions and rejected others, only the comments of which the voter has not accepted resolution should be presented.’.
IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet to RevCom (conditional)

### Recirculation ballot and resolution meeting schedule

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<th>Event</th>
<th>Date</th>
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<td>IEEE P802.3df comment resolution meeting</td>
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<tr>
<td>RevCom submittal deadline</td>
<td>19 February 2024</td>
</tr>
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**Note 1:** If there are minimal 2<sup>nd</sup> Standards Association recirculation ballot comments, with no anticipated substantive changes, this meeting will be held on 18 December 2023. If there are comments with anticipated substantive changes, this meeting will be held 9-11 January 2024.

**Note 2:** 3<sup>rd</sup> Standards Association recirculation ballot only if required.
IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet to RevCom (conditional)

Motion
Conditionally approve sending IEEE P802.3df to RevCom
Confirm the CSD for IEEE P802.3df in https://mentor.ieee.org/802-ec/dcn/21/ec-21-0306-01-ACSD-p802-3df.pdf

M: Law  S: D'Ambrosia
Y: ??, N: ??, A: ??

Working Group vote

Y: XX, N: XX, A: XX
X.XXX MI*: IEEE 802.3 Ethernet for Automotive Imaging Sensors Study Group (first rechartering)
IEEE 802.3 Ethernet for Automotive Imaging Sensors Study Group (first rechartering)

Motion

Grant the 1st rechartering of IEEE 802.3 Ethernet for Automotive Imaging Sensors Study Group

M: Law S: D'Ambrosia
Y: ??, N: ??, A: ??

Working Group vote

Y: XX, N: XX, A: XX
X.XXX ME*: Request for Category C liaison with IEC TC 64 MT 2 current carrying capacity of conductors and related overcurrent protection
Request for Category C liaison with IEC TC 64 MT 2

The IEC Application form for international organizations wishing to create a liaison with an IEC technical committee can be accessed at https://mentor.ieee.org/802-ec/dcn/23/ec-23-0219-00-00EC-request-for-category-c-liaison-with-iec-tc-64-mt-2.pdf.
Request for Category C liaison with IEC TC 64 MT 2

Motion
Approve IEEE 802.3 requesting a Category C Liaison with IEC TC 64 MT 2 Current carrying capacity of conductors and related overcurrent protection
Confirm the appointment of David Law as an IEEE 802.3 liaison officer to serve as the IEEE 802.3 Category C Liaison representative to IEC TC 64 MT 2

M: Zimmerman S: D'Ambrosia
Y: ??, N: ??, A: ??

Working Group vote
Y: XX, N: XX, A: XX
X.XXX ME*: Appointment of liaison officer from IEEE 802.3 to ITU-T SG15
Appointment of liaison officer from IEEE 802.3 to ITU-T SG15

Motion

Confirm the appointment of Tom Huber as the IEEE 802.3 liaison officer to ITU-T SG15

M: Law S: D'Ambrosia
Y: ??, N: ??, A: ??

Working Group vote

Y: XX, N: XX, A: XX
X.XXX II*: IEEE 802.3 updates to ITU-T SG15 standardisation overview and work plans liaison letters
IEEE 802.3 updates to ITU-T SG15 standardisation overview and work plans liaison letters


Working Group vote to approve letters

Y: ??, N: ??, A: ??
X.XXX II*: Liaison reply to ITU-T SG15 regarding G.652 fiber link property
Liaison reply to ITU-T SG15 regarding G.652 fiber link property

The IEEE 802.3 liaison reply to ITU-T SG15 regarding G.652 fiber link property can be accessed at https://mentor.ieee.org/802-ec/dcn/23/ec-23-0216-00-00EC-liaison-reply-to-itu-t-sg15-regarding-g-652-fiber-link-property.pdf

Working Group vote to approve letter

Y: ??, N: ??, A: ??
X.XXX II*: Liaison to ITU-T SG15 regarding IEEE P802.3df status update
The IEEE 802.3 liaison letter regarding IEEE P802.3df status update can be accessed at https://mentor.ieee.org/802-ec/dcn/23/ec-23-0217-00-00EC-liaison-to-itu-t-sg15-regarding-ieee-p802-3df-status-update.pdf

Working Group vote to approve letter

Y: ??, N: ??, A: ??