

# IEEE 802.3 motions for consent agenda

IEEE 802 LMSC

Friday 17 November 2023

5.041 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)

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## 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)

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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: 98, N: 0, A: 4

**5.042 ME\*: IEEE P802.3cw  
to Standards Association ballot (conditional)**

# IEEE P802.3cw to Standards Association ballot (conditional)

## Date the ballot closed

5<sup>th</sup> 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

	Initial Draft D2.0			1 <sup>st</sup> Recirculation Draft D2.1			2 <sup>nd</sup> Recirculation Draft D2.2			3 <sup>rd</sup> Recirculation Draft D2.3			4 <sup>th</sup> Recirculation Draft D2.4			5 <sup>th</sup> Recirculation Draft D2.5			Req %
	#	%	Status	#	%	Status	#	%	Status	#	%	Status	#	%	Status	#	%	Status	
Abstain	13	9	PASS	17	10	PASS	18	10	PASS	19	11	PASS	24	13	PASS	20	11	PASS	< 30
Dis with comment	13	-	-	12	-	-	7	-	-	5	-	-	3	-	-	1	-	-	-
Dis w/o comment	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-	-
Approve	115	89	PASS	130	91	PASS	141	95	PASS	145	96	PASS	148	98	PASS	156	99	PASS	≥ 75
Ballots returned	141	62	PASS	159	70	PASS	166	74	PASS	169	75	PASS	175	78	PASS	177	78	PASS	> 50
Voters	224	-	-	224	-	-	224	-	-	224	-	-	224	-	-	225*	-	-	-
Comments	582	-	-	290	-	-	25	-	-	38	-	-	14	-	-	39	-	-	-

\* 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.')

# IEEE P802.3cw to Standards Association ballot (conditional)

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 liaisons from ~~two~~ one organizations indicating that ~~it~~ the respective groups ~~hasve~~ completed a 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~~ s 400 Gb/s Ethernet via the 400GAUI-8 interface that is defined by IEEE 802.3.



# IEEE P802.3cw to Standards Association ballot (conditional)

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## 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)

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## Recirculation ballot and resolution meeting schedule

6th Working Group recirculation ballot day one	8 November 2023
6th Working Group recirculation ballot close date	29 November 2023
IEEE P802.3cw comment resolution meeting	11 December 2023
7th Working Group recirculation ballot day one	18 December 2023
7th Working Group recirculation ballot close date	3 January 2024
IEEE P802.3cw comment resolution meeting	8 January 2024

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)

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## 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: 88, N: 3, A: 25

**5.043 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 1<sup>st</sup> 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

	Initial Draft D3.0			1 <sup>st</sup> Recirculation Draft D3.1			Req %
	#	%	Status	#	%	Status	
Abstain	2	2	PASS	2	2	PASS	< 30
Dis with comment	7	-	-	2	-	-	-
Dis w/o comment	0	-	-	0	-	-	-
Approve	88	92	PASS	95	97	PASS	≥ 75
Ballots returned	95	77	PASS	99	79	PASS	≥ 75
Voters	125	-	-	125	-	-	-
Comments	145	-	-	40	-	-	-
Public comments	0	-	-				

# IEEE P802.3df 400 Gb/s and 800 Gb/s Ethernet to RevCom (conditional)

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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)

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## Recirculation ballot and resolution meeting schedule

2 <sup>nd</sup> Standards Association recirculation ballot day one	30 November 2023
2 <sup>nd</sup> Standards Association recirculation ballot close date	14 December 2023
IEEE P802.3df comment resolution meeting	See note 1
RevCom submittal deadline	19 December 2023
3 <sup>rd</sup> Standards Association recirculation ballot day one	13 January 2024
3 <sup>rd</sup> Standards Association recirculation ballot close date	27 January 2024
IEEE P802.3df comment resolution meeting	31 January 2024
RevCom submittal deadline	19 February 2024

Note 1: If there are minimal 2<sup>nd</sup> Standards Association recirculation ballot comments, with no anticipated substantiative changes, this meeting will be held on 18 December 2023. If there are comments with anticipated substantiative 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)

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## 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: 84, N: 0, A: 5



# 6.011 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)

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## 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: 75, N: 0, A: 2

7.051 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

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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

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## 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: 70, N: 0, A: 0

## 7.052 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

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## 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: 88, N: 0, A: 2

# 7.053 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

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The IEEE 802.3 liaison letter to ITU T SG15 providing updates to the Access Network Transport (ANT) standardisation overview and work plan can be accessed at <https://mentor.ieee.org/802-ec/dcn/23/ec-23-0215-00-00EC-liaison-reply-to-itu-t-sg15-on-ant-workplan.pdf>, the IEEE 802.3 liaison letter to ITU T SG15 providing updates to the Home Network Transport (HNT) standardisation overview and work plan can be accessed at <https://mentor.ieee.org/802-ec/dcn/23/ec-23-0214-00-00EC-liaison-reply-to-itu-t-sg15-on-hnt-workplan.pdf>, and the IEEE 802.3 liaison letter to ITU T SG15 providing updates to the Optical Transport Networks & Technologies (OTNT) standardisation overview and work plans can be accessed at <https://mentor.ieee.org/802-ec/dcn/23/ec-23-0213-00-00EC-liaison-reply-to-itu-t-sg15-on-otnt-workplan.pdf>.

Working Group vote to approve letters

Y: 96, N: 0, A: 2

## 7.054 II\*: Liaison to ITU-T SG15 regarding IEEE P802.3df status update

# Liaison to ITU-T SG15 regarding IEEE P802.3df status update

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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: 103, N: 0, A: 1