IEEE 802.3 motions for consent agenda

IEEE 802 EC

Friday 18 March 2022

5.034 ME*: IEEE P802.3 (IEEE 802.3dc) Standard for Ethernet (Maintenance #16) revision to RevCom (Conditional)

IEEE P802.3 (IEEE 802.3dc) Standard for Ethernet (Maintenance #16) revision to RevCom (Conditional)

Item 1: Date ballot closed:

The 1st Standards Association recirculation ballot on IEEE P802.3 (IEEE 802.3dc) Standard for Ethernet (Maintenance #16) revision draft D3.1 closed on 2 March 2022 at 23:59 UTC-12

Item 2: Vote tally

	Initial Draft D3.0			1st Recirculation Draft D3.1			Req %
	#	%	Status	#	%	Status	
Abstain	3	2	PASS	3	2	PASS	< 30
Dis with comment	10	-	-	4	-	-	-
Dis w/o comment	0	-	-	0	-	-	-
Approve	92	90	PASS	108	96	PASS	≥ 75
Ballots returned	105	77	PASS	115	84	PASS	≥ 75
Voters	136	-	-	136	-	-	-
Comments	110	-	-	20	-	-	-
Public comments	0	-	-				

IEEE P802.3 (IEEE 802.3dc) Standard for Ethernet (Maintenance #16) revision to RevCom (Conditional)

Comments that support the remaining disapprove votes and responses

4 unsatisfied TR comments, 3 unsatisfied ER and 2 unsatisfied GR comments from 3 disapprove voters

See <https://ieee802.org/3/dc/comments/P8023_D3p1_D3p0_comments_unsatisfied.pdf>

Summary:

I-42: Inconsistent capitalization of "register". Accept in Principle, capitalization convention adopted and applied consistently throughout the draft.

I-52: Inconsistent management attribute enumeration sort order. Accept in Principle, sort order convention adopted and applied consistently throughout the draft.

I-62: Protective Extra Low Voltage (PELV) is mentioned, but not explained. Accept in Principle, delete only instance of PELV.

I-65: Isolating transformer test voltage. Rejected, insufficient information to implement a remedy and specification applies to the port, not a single component of the Ethernet port (e.g., a transformer).

I-66: Multiport equipment testing. Accept in Principle, added note to implementers to consider termination of other ports when testing multi-port devices.

I-69: Suggestion to ask IEC TC 64 for an interpretation regarding isolation requirements. Rejected, comment did not propose change to draft.

I-74: Change reference to Safety Extra Low Voltage (SELV) to Safety Extra Low Voltage (SELV) or Protective Extra Low Voltage (PELV). Accept in Principle, changed to SELV (Safety Extra Low Voltage) power, as defined by IEC 60950-1.

I-75: Delete note related to EtherType based frames and add main body text regarding invalid MAC frames. Accepted.

I-89: Issues related to reference to IEC 60364-7-716. Accept in Principle, reference to IEC 60364-7-716 removed.

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 P802.3 (IEEE 802.3dc) Standard for Ethernet (Maintenance #16) revision to RevCom (Conditional)

Item 4: meeting schedule

2nd Standards Association recirculation ballot day one	16 March 2022
RevCom submittal deadline	17 March 2022
2nd Standards Association recirculation ballot close	30 March 2022
IEEE P802.3 (IEEE 802.3dc) comment resolution meeting	4 April 2022
3rd Standards Association recirculation ballot day one	16 April 2022
RevCom teleconference meeting	27 April 2022
3rd Standards Association recirculation ballot close	30 April 2022
IEEE P802.3 (IEEE 802.3dc) comment resolution meeting	Week of 2 May 2022
RevCom submittal deadline	6 May 2022
RevCom teleconference meeting	15 June 2022
IEEE-SA Standards Board teleconference meeting	16 June 2022

Note: 3rd Standards Association recirculation ballot only if required

IEEE P802.3 (IEEE 802.3dc) Standard for Ethernet (Maintenance #16) revision to RevCom (Conditional)

Motion:

Conditionally approve sending IEEE P802.3 (IEEE 802.3dc) to RevCom

M: Law S: D'Ambrosia

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

Working Group vote

Y: 107, N: 0, A: 5

5.032 ME*: IEEE P802.3cx Improved PTP timestamping accuracy to Standards Association ballot (Conditional)

IEEE P802.3cx Improved PTP timestamping accuracy to Standards Association ballot (Conditional)

Date the ballot closed

The second Working Group recirculation ballot on IEEE P802.3cx draft D2.2 closed on 19 February 2022 at 23:59 UTC-12

Vote tally

	Initial Draft D2.0			1st Recirculation Draft D2.1			2nd Recirculation Draft D2.2			Req %
	#	%	Status	#	%	Status	#	%	Status	
Abstain	22	16	PASS	24	15	PASS	26	16	PASS	< 30
Dis with comment	8	-	-	5	-	-	3	-	-	-
Dis w/o comment	0	-	-	0	-	-	0	-	-	-
Approve	105	92	PASS	125	96	PASS	132	97	PASS	≥ 75
Ballots returned	135	60	PASS	154	68	PASS	161	71	PASS	>50
Voters	225	-	-	225	-	-	225	-	-	-
Comments	143	-	-	181	-	-	44	-	-	-

IEEE P802.3cx Improved PTP timestamping accuracy to Standards Association ballot (Conditional)

Comments that support the remaining disapprove votes and responses

5 unsatisfied TR comments from 2 disapprove voters

See <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0063-01-00EC-ieee-p802-3cx-unresolved-comments.pdf>

Summary:

#179: Make TX_num_unit_change definition more explicit. Rejected based on consensus to keep definition as generic as possible to avoid the need for future revisions.

#167: TS_SFD_Detect_TX function definition changes were proposed.

#170: New feature request: Add a method (e.g, via Link Layer Discovery Protocol) to pass the state of the Message TimeStamp Point (register 3.1813.13) to the far end. No consensus to work on such feature.

#175: Add a note talking about how a Physical Coding Sublayer (PCS) separated by an Extender Sublayer (XS) from the Reconciliation Sublayer (RS) needs to not modify the Alignment Marker/Codeword Marker (CWM) locations or do any rate compensation to minimize any time accuracy error. No specific text was provided at the time.

#235: Updates to informative table in Annex 90A were made per consensus.

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 P802.3cx Improved PTP timestamping accuracy to Standards Association ballot (Conditional)

Schedule

3rd Working Group recirculation ballot (underway) day one	25 March 2022
3rd Working Group recirculation ballot close	1 April 2022
IEEE P802.3cx comment resolution meeting	20 April 2022
4th Working Group recirculation ballot day one	29 April 2022
4th Working Group recirculation ballot close	13 May 2022
IEEE P802.3cx comment resolution meeting	25 June 2022

Note: 4th Working Group recirculation ballot only if required

IEEE P802.3cx Improved PTP timestamping accuracy to Standards Association ballot (Conditional)

Motion:

Conditionally approve sending IEEE P802.3cx Improved PTP timestamping accuracy to Standards Association ballot

Confirm the CSD for IEEE P802.3cx in <https://mentor.ieee.org/802-ec/dcn/19/ec-19-0220-01-ACSD-p802-3cx.pdf>

M: Law S: D'Ambrosia

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

Working Group vote

Y: 109, N: 1, A: 0

5.033 ME*: IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet to Standards Association ballot

IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet to Standards Association ballot

Date the ballot closed

The fourth Working Group recirculation ballot on IEEE P802.3de draft D2.2 closed on 3 March 2022 at 23:59 UTC-12

Vote tally

	Initial Draft D2.0			1st Recirculation Draft D2.1			2nd Recirculation Draft D2.2			Req %
	#	%	Status	#	%	Status	#	%	Status	
Abstain	27	16	PASS	30	17	PASS	28	15	PASS	< 30
Dis with comment	3	-	-	2	-	-	0	-	-	-
Dis w/o comment	0	-	-	0	-	-	0	-	-	-
Approve	135	97	PASS	141	98	PASS	155	100	PASS	≥ 75
Ballots returned	165	66	PASS	173	69	PASS	183	73	PASS	>50
Voters	248	-	-	248	-	-	248	-	-	-
Comments	64	-	-	9	-	-	2	-	-	-

IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet to Standards Association ballot

- Comments that support the remaining disapprove votes and responses
  - None, the draft has 100% approval
- Changes to draft prior to Standards Association Ballot
  - Change the draft number to 3.0
  - Change the front matter to reference that the draft is for Standards Association ballot
  - Correct frontmatter typo '… to specifies …' to read ' … specifies …'

IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet to Standards Association ballot

Motion

Approve sending IEEE P802.3de Time Synchronization for Point-to-Point Single Pair Ethernet to Standards Association ballot

Confirm the CSD for IEEE P802.3de in <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0197-00-ACSD-p802-3de.pdf>

M: Law S: D'Ambrosia

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

Working Group vote

Y: 85, N: 0, A: 5

5.031 ME*: IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet PAR split (division of existing work item)

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet PAR split (division of existing work item)

Rationale

It became apparent to the IEEE 802.3 Working Group that the state of technology for graded-index glass and plastic fibre is different, and that a faster timeline for a graded-index glass fibre only project is achievable. As a result, graded-index plastic fibre will be removed from the scope of IEEE P802.3cz PAR, which will be limited to graded-index glass fibre, and graded-index plastic fibre will be the scope of the new IEEE P802.3dh amendment PAR.

Title

IEEE P802.3cz PAR modification request

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Automotive Ethernet using graded-index glass optical fiber for application in the automotive environment

IEEE P802.3dh PAR

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet PAR split (division of existing work item)

Scope

IEEE P802.3cz PAR modification request

Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet using graded-index glass optical fiber for application in the automotive environment.

IEEE P802.3dh PAR

Specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and management parameters for multi-gigabit optical Ethernet using graded-index plastic optical fiber for application in the automotive environment.

IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet PAR split (division of existing work item)

Motion

Approve forwarding IEEE P802.3cz PAR modification documentation in <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0039-01-00EC-draft-ieee-p802-3cz-par-modification.pdf> to NesCom

Approve IEEE P802.3cz CSD modification documentation in <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0038-00-00EC-draft-ieee-p802-3cz-csd-modification.pdf>

Approve forwarding IEEE P802.3dh PAR documentation in <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0037-01-00EC-draft-ieee-p802-3dh-par.pdf> to NesCom

Approve IEEE P802.3dh CSD documentation in <https://mentor.ieee.org/802-ec/dcn/22/ec-22-0036-00-00EC-draft-ieee-p802-3dh-csd.pdf>

M: Law S: D'Ambrosia

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

Working Group vote

IEEE P802.3cz PAR modification: Y: 114 N: 2 A: 6
IEEE P802.3cz CSD modification: Y: 105 N: 1 A: 12

IEEE P802.3dh PAR: Y: 88 N: 4 A: 21
IEEE P802.3dh CSD: Y: 94 N: 5 A:16

6.071 MI*: IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group (Second rechartering and first extension)

IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet Study Group (Second rechartering and first extension)

Motion

Grant the second rechartering and six-month extension of the IEEE 802.3 Greater than 10 Mb/s Long-Reach Single Pair Ethernet study group.

M: Law S: D'Ambrosia

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

Working Group vote

Y: 78, N: 0, A: 2

Rationale for the extension request: Approval has been sought to forward the IEEE P802.3dg PAR to NesCom which was developed by this Study Group. This request for extension is only to address any issues during the approval process for the IEEE P802.3dg PAR.