# IEEE 802.3 motions

Closing IEEE 802 EC

Friday 9th March 2018

# ME 5.041: New PAR: IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signalling

# IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signalling PAR and CSD responses

## Title

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signaling

## Scope of project

This project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add Physical Layer specifications and Management Parameters for 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signaling

## Need

The continual growth of bandwidth demand has driven evolution of higher Ethernet speeds, most recently with 100 Gb/s, 200 Gb/s and 400 Gb/s Ethernet. To meet this growth, ongoing advancement in SERDES technology to higher rates of operation enables the opportunity to develop higher density or lower cost electrical interfaces using 100 Gb/s signalling

## Draft PAR

https://mentor.ieee.org/802-ec/dcn/18/ec-18-0015-02-00EC-ieee-p802-3ck-draft-par.pdf

## Draft CSD

https://mentor.ieee.org/802-ec/dcn/18/ec-18-0016-02-00EC-ieee-p802-3ck-draft-csd.pdf

# IEEE P802.3ck 100 Gb/s, 200 Gb/s, and 400 Gb/s electrical interfaces based on 100 Gb/s signalling PAR and CSD responses

Motion

Approve forwarding IEEE 802.3ck PAR in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0015-02-00EC-ieee-p802-3ck-draft-par.pdf to NesCom

Approve the IEEE P802.3ck CSD in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0016-02-00EC-ieee-p802-3ck-draft-csd.pdf

M: Law, S: D'Ambrosia

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

Working Group votes:

PAR modification request: Y: 85, N: 0, A:0

Updated CSD responses: Y: 75, N: 0, A:1

# ME 5.042: New PAR: IEEE P802.3cm 400 Gb/s over Multimode Fiber

# IEEE P802.3cm 400 Gb/s over Multimode Fiber PAR and CSD responses

## Title

Standard for Ethernet Amendment Physical Layer and Management Parameters for 400 Gb/s over Multimode Fiber

## Scope of project

Define Physical Layer specifications (PHY) and management parameters for the transfer of Ethernet format frames at 400 Gb/s over fewer than 16 pairs of multimode fiber physical media

## Need

Rapid growth of server, network, and internet traffic is driving the need for higher data rates, higher density, lower cost fiber optic solutions, especially in the data center space. To address these needs, advances in technology now allow the specification of new 400 Gb/s physical layer types operating over fewer multimode pairs than in existing IEEE 802.3 Ethernet projects and standards. This will support both the installed base and new installations of multimode fiber cable

## Draft PAR

https://mentor.ieee.org/802-ec/dcn/18/ec-18-0017-01-00EC-ieee-p802-3cm-draft-par.pdf

## Draft CSD

https://mentor.ieee.org/802-ec/dcn/18/ec-18-0018-02-00EC-ieee-p802-3cm-draft-csd.pdf

# IEEE P802.3cm 400 Gb/s over Multimode Fiber PAR and CSD responses

Motion

Approve forwarding IEEE P802.3cm PAR in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0017-01-00EC-ieee-p802-3cm-draft-par.pdf to NesCom

Approve the IEEE P802.3cm CSD in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0018-02-00EC-ieee-p802-3cm-draft-csd.pdf

M: Law, S: D'Ambrosia

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

Working Group votes:

PAR modification request: Y: 84, N:0, A: 0

Updated CSD responses: Y: 77, N:0, A: 0

# ME 5.043: PAR modification request: IEEE P802.3cg 10 Mb/s Single Balanced Pair Ethernet

# IEEE P802.3cg 10 Mb/s Single Balanced Pair Ethernet PAR modification request

## Modified title

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 10 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors

## Summary of modification request

This modification is to expand the scope of the IEEE P802.3cg PAR to include intra-system control applications by referencing a balanced pairs of conductors rather than to the construction of the media (twisted pairs)

## PAR modification request

https://mentor.ieee.org/802-ec/dcn/18/ec-18-0013-01-00EC-ieee-p802-3cg-draft-par-modification-request.pdf

## Updated CSD responses

https://mentor.ieee.org/802-ec/dcn/18/ec-18-0014-02-00EC-ieee-p802-3cg-draft-csd-modifications.pdf

# IEEE P802.3cg 10 Mb/s Single Balanced Pair Ethernet PAR modification request

Motion

Approve forwarding IEEE P802.3cg PAR modification request in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0013-01-00EC-ieee-p802-3cg-draft-par-modification-request.pdf to NesCom

Approve updated IEEE P802.3cg CSD responses in https://mentor.ieee.org/802-ec/dcn/18/ec-18-0014-02-00EC-ieee-p802-3cg-draft-csd-modifications.pdf

M: Law, S: D'Ambrosia

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

Working Group votes:

PAR modification request: Y: 88, N: 0, A: 0

Updated CSD responses: Y: 95, N: 0, A: 1

# ME 5.044: IEEE P802.3 (IEEE 802.3cj) Maintenance #12 (Revision) to RevCom (conditional)

# IEEE P802.3 (IEEE 802.3cj) Maintenance #12 (Revision) to RevCom (conditional)

## Item 1: Date the ballot closed

The 1st Sponsor recirculation ballot on IEEE P802.3 (IEEE 802.3cj) draft D3.1 closed on 28th February 2018 at 23:59 ET

## Item 2: Vote tally

| | Initial Draft D3.0 | | | 1st Recirculation Draft D3.1 | | | Req % |
|---|---|---|---|---|---|---|---|
| | # | % | Status | # | % | Status | |
| Abstain | 9 | 7 | PASS | 8 | 6 | PASS | < 30 |
| Dis with comment | 6 | - | - | 3 | - | - | - |
| Dis w/o comment | 0 | - | - | 0 | - | - | - |
| Approve | 105 | 94 | PASS | 118 | 97 | PASS | ≥ 75 |
| Ballots returned | 120 | 81 | PASS | 129 | 87 | PASS | ≥ 75 |
| Voters | 147 | - | - | 147 | - | - | - |
| Comments | 125 | - | - | 49 | - | - | - |
| Public comments | 0 | - | - | | | | |

# IEEE P802.3 (IEEE 802.3cj) Maintenance #12 (Revision) to RevCom (conditional)

Item 3: Comments that support the remaining disapprove votes and WG responses

6 unresolved negative comments from 3 commenters

See: https://mentor.ieee.org/802-ec/dcn/18/ec-18-0066-00-00EC-ieee-p802-3-ieee-802-3cj-unresolved-negative-comments.pdf

Item 4: Recirculation ballot and resolution meeting schedule

| | |
|---|---|
| 2nd Sponsor recirculation ballot day one | 14th March 2018 |
| 2nd Sponsor recirculation ballot close date | 28th March 2018 |
| IEEE 802.3cj comment resolution meeting | 6th April 2018 |
| 3rd Sponsor recirculation ballot day one | 10th April 2018 |
| 3rd Sponsor recirculation ballot close date | 24th April 2018 |
| IEEE 802.3cj comment resolution meeting | 26th April 2018 |
| June 2018 RevCom submittal deadline | 4th May 2018 |
| June 2018 SASB meeting series start | 12th June 2018 |

Note: 3rd Sponsor recirculation ballot only if required.

# IEEE P802.3 (IEEE 802.3cj) Maintenance #12 (Revision) to RevCom (conditional)

## Motion

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

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

Working Group vote
Y: 113, N: 0, A: 2

# MI 6.041: IEEE 802.3 Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs Study Group

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

Motion

Approve the formation of IEEE 802.3 Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs study group to consider development of a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for Bidirectional 10Gb/s and 25Gb/s Optical Access PHYs

M: Law, S: D'Ambrosia

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

Working Group vote:

Y: 46 N: 1 A: 9