

# IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force Opening Report

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# IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force

## Project information

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### Task Force Organization

George Zimmerman, IEEE P802.3cg Task Force Chair

Jon Lewis, IEEE P802.3cg Task Force Secretary

Peter Jones, Architecture Ad Hoc Chair

Valerie Maguire, IEEE P802.3cg Chief Editor

### Task force web and reflector information

Reflector information: <http://www.ieee802.org/3/cg/reflector.html>

Home page: <http://ieee802.org/3/cg/index.html>

PAR: [http://www.ieee802.org/3/cg/IEEE\\_P802\\_3cg\\_PAR\\_071216.pdf](http://www.ieee802.org/3/cg/IEEE_P802_3cg_PAR_071216.pdf)

CSD: <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0216-00-ACSD-802-3cg.pdf>

Objectives: [http://www.ieee802.org/3/cg/objectives\\_10SPE\\_111016.pdf](http://www.ieee802.org/3/cg/objectives_10SPE_111016.pdf)

Approved timeline:

[http://www.ieee802.org/3/cg/adopted\\_802d3cg\\_timeline\\_0517.pdf](http://www.ieee802.org/3/cg/adopted_802d3cg_timeline_0517.pdf)

Private area: <http://ieee802.org/3/cg/private/index.html>

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# IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Task Force Activities since July 2017 plenary

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Met during the September 2017 interim meeting series

Major items discussed, decisions made and actions

- Adopted text for PCS and PMA for 1000m PHY

- Adopted text for optional powering annex

- Adopted link segment specification for short-reach PHY

- Adopted new objective for a half-duplex, multidrop short-reach PHY

- Adopted optional multidrop performance improvement method

- Chartered draft 0.3

- Supported addition of backplane use cases (subject to CFI and Study Group)

Current status

- Hearing presentations to fill out baseline proposals, including:

  - Preparing for draft 1.0

  - Continuing Architecture Ad hoc calls

# Proposed new objective

## Motion #16

- **Move that 802.3cg add the following objective:**
  - **Define a multi-drop PHY using Clause 4 half-duplex operation supporting up to at least 25m of balanced pair cabling in passive linear topologies.**
- **M: Kirsten Matheus    S: David Brandt**
- **Technical ( $\geq 75\%$ )**
- **Y: 33 N:0    A:0**
- **Motion Passes**

# Support Backplane Use Cases

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## Motion #15

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- **Move that the 802.3cg Task Force supports the inclusion of in-system use cases, as described in bains\_lewis\_10spe\_01a\_0910.pdf, subject to a successful CFI and Study Group outcome.**
- **M: P. Jones S:R. Naismith**
- **Procedural > 50%**
- **Y:30 N: 0 A:0**
- **Motion Passes**

# IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Adopted timeline

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- ✓ January 2017 – First Task Force meeting
- ✓ July 2017 – Objectives Finalized, Draft 0.1 (skeleton), **all baselines presented**
- ✓ September 2017 – **Baselines selected**, draft 0.9 for Task Force Review
- November 2017 – Last features selected - Task Force Review D1.0**
  - Nov:D1.0, Jan:D1.1, possible Feb 2018 extra off-cycle interim, D1.2
- March 2018 – Complete Task Force Review(D1.2/1.3)
- May 2018 – Draft 2.0, enter working group ballot** (2 recircs: July:D2.1, Sept:D2.2)
- Nov 2018 – D3.0 – enter Sponsor ballot** (2 recircs Jan'19:D3.1, Mar'19:D3.2)
- June 2019 Standards Board approval**

*[NOTE: only 1 meeting cycle slack spread between WG ballot and Sponsor Ballot]*

# IEEE P802.3cg 10 Mb/s Single Twisted Pair Ethernet Meeting week plan

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## Goals for the meeting:

- Charter draft 1.0

- Respond if necessary to liaisons from: IEC SC65, TIA TR42 and ISO/IEC SC25 WG3 on single pair cabling and components

## Big ticket items

- Adopt baseline for short reach PHY PCS & PMA

- Adopt baseline for associated powering

- Adopt baseline for auto negotiation

Questions?

Thank you!