

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

George A. Zimmerman

CME Consulting/CME Consulting/ADI, APL  
Group, Aquantia, BMW, Cisco, Commscope  
Berlin, Germany

10 July 2017

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

## Project information

---

### 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>

Note: The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights

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

---

## Met during the May 2017 interim meeting series

### Major items discussed, decisions made and actions

Adopted timeline

Adopted modulation and PMA elements of baseline proposal for 1000m PHY

Adopted new profiles for plug-and-play and engineered powering

Refined understanding of expanded (non-industrial or automotive) use cases and possible multidrop topologies.

### Current status

Hearing presentations to adopt baseline proposals including:

- Short reach PHY (pt-to-pt and possibly multidrop)
- Short reach link segment
- Refinements on powering and 1000m PHY PCS/PMA

Preparing for draft 0.1

Continuing Architecture Ad hoc calls

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

---

✓ **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

---

### Goals for the meeting

- Continue to work on selection of a set of baseline proposals

  - Hear proposals to refine 1000m PHY specifications

  - Progress short/intermediate reach PHY and use case discussion, including multidrop

  - Hear proposals to refine powering specifications

- Hear and respond if necessary to TR42 liaison on single pair cabling standards

### Big ticket items

  - Clarify short reach PHY and use cases to prepare for baselines in September

  - Finalize objectives (e.g., multidrop?, intermediate reach use cases?)

  - Begin construction of draft

Questions?

Thank you!