

# Agenda and General Information

IEEE 802.3

MultiGigabit Automotive Ethernet PHY  
Study Group Ad Hoc

George Zimmerman (Acting Chair)

CME Consulting, Inc.

23 November 2016

# MultiGigabit Automotive Ethernet PHY SG Ad Hoc Communications

---

- The web page and reflector are still to be set up
- Until that time, we are using the NG-ECDC reflector

# Attendance

---

- Attendee names and affiliations for these ad hoc meetings will be taken from the Webex participants list.
- Please ensure that your full name and employer/affiliation are indicated correctly.
- If the Webex participants list does not correctly indicate your name and employer/affiliation, please send an e-mail to the SG and/or AdHoc chair.

# Goals for a SG

---

- Develop a set of objectives for the project
- Develop responses for the CSD (Criteria for Standards Development)
- Develop a PAR
- Review presentations substantiating the above
- Lay the ground work for the next meeting

# Ground Rules

---

- Based upon IEEE 802.3 Rules
  - Foundation based upon Robert's Rules of Order
  - Anyone in the room may speak
  - Anyone in the room may vote
- **RESPECT**... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
  - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices

# Guidelines for IEEE-SA Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
- Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
- Don't discuss specific license rates, terms, or conditions.
  - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
    - Technical considerations remain primary focus
- Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
- Don't discuss the status or substance of ongoing or threatened litigation.
- Don't be silent if inappropriate topics are discussed... do formally object.

-----  
If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association’s Antitrust and Competition Policy” for more details.

This slide set is available  
at <https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt>

# The Study Group

---

- Normal function is to draft a complete PAR and Five Criteria
- Provide a plenary week tutorial to the LMSC.
- Gain approval at the IEEE 802.3 WG, IEEE 802 EC, IEEE-SA NesCom and IEEE-SA Standards Board.
- SG only exists for 6 months
  - Extensions can be requested
  - Voted on by IEEE 802.3
  - Ratified by IEEE 802 EC
- Development of Objectives helps set the goals for the Task Force
- Consensus required to move forward
  
- Not a goal – choosing a solution.

# Request for Formation of Study Group (as per November 2016 Plenary Motion)

---

- Move that the IEEE 802.3 Working Group request the formation of a Study Group to develop a Project Authorization Request (PAR) and Criteria for Standards Development (CSD) responses for MultiGig Automotive Ethernet PHY
  
- What do we know?
  - It's a PHY project!
  - It's more than a 1 Gigabit!
  - It's Automotive!



# Crash course on Study Group goals

---

For an overview of Study Group activities, please refer to:

Overview of the Process – Wael Diab

[http://www.ieee802.org/3/400GSG/public/13\\_05/diab\\_400\\_01\\_0513.pdf](http://www.ieee802.org/3/400GSG/public/13_05/diab_400_01_0513.pdf)

Review of the 5 Criteria – Howard Frazier

[http://www.ieee802.org/3/400GSG/public/13\\_05/frazier\\_400\\_01\\_0513.pdf](http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_01_0513.pdf)

Guidelines for Project Objectives – Howard Frazier

[http://www.ieee802.org/3/400GSG/public/13\\_05/frazier\\_400\\_02\\_0513.pdf](http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_02_0513.pdf)

The following slides are adapted from these excellent presentations.  
The originals, while a little dated, remain, in spirit, correct.

(THANKS TO MARK NOWELL and the 25Gbps Study Group)

# What does the Study Group Produce?

---

- PAR
  - Our “contract” with the IEEE-SA and “authorization” to develop a standard
    - Goes all the way up the hierarchy
  - Broadly focuses on what the standard is that group will work on including scope, purpose, broad timeline (not a project plan)
  - High level - to notify anyone interested as to what we’re attempting to do
- 5 Criteria (now called CSDs)
  - Broad Market Potential, Compatibility, Distinct Identity, Technical Feasibility, Economic Feasibility
    - Controlled at the 802 EC level
- Objectives
  - Our “contract” with 802.3 – controlled at the 802.3 level

# Presentations

<b>Title</b>	<b>Presenters(s)</b>	<b>Affiliation(s)</b>	<b>Approx Time</b>
Agenda	George Zimmerman, Acting Chair, Ad Hoc	CME Consulting / Commscope, LTC, & Aquantia	7-7:20
Acting Chair's Comments	Steve Carlson	High Speed Design	7:20-7:30
Study Group Primer	George Zimmerman	CME Consulting	7:30-7:50
Building the Objectives	George Zimmerman	CME Consulting	7:50-8:10
Multi-Gig Ethernet for Automotive Survey Results	Natalie Wienckowski	General Motors	8:10-8:30
Discussion & Next Steps	All		-9AM

# Future Meetings

---

- See:  
<http://www.ieee802.org/3/interims/index.html>
- Ad hoc meetings every 2 weeks, this time slot?
  - (Dec 7, Dec 21, Jan 4)
- First face-to-face Study Group meeting:
  - January 2017 802.3 Interim
    - Huntington Beach, California (Waterfront Beach Hilton)
    - January 9-13, 2017
- March 2017 802 Plenary
  - Vancouver, BC Canada (Hyatt Regency/Fairmont Vancouver)
  - March 12-17, 2017

---

# Thank You!