IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force Closing Report

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IEEE 802.3 Multi-Gig Automotive Ethernet PHY Task Force information

Task Force Organization

Steve Carlson, Task Force Chair

Natalie Wienckowski, Chief Editor

Curtis Donahue, PICS Editor

George Zimmerman, Ad Hoc Chair

Task Force web and reflector information

Reflector information: http://www.ieee802.org/3/NGAUTO/reflector.html

Home page: http://ieee802.org/3/ch/index.html

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Progress this week

- Presentations on objectives:
  - STP cable performance to 7.3 Ghz
  - Automotive high-speed cable and connector systems
  - BCI testing for STP cables
  - OEMS and Tier 1 suppliers preferred cable/connector solutions
    - Individuals from Audi, General Motors, VW, BMW, Daimler, Robert Bosch, Continental, TE Connectivity, Rosenberger and Leoni
  - Possible PHY architectures based on media characteristics reports
  - EEE, wake signals and deep sleep
    - Important topic for the automotive industry
  - Initial timeline discussion
    - Continue timeline discussion on ad hoc calls
    - Discussed future joint P802.3cg and P802.3ch interims

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Straw Poll #1

I support that the 802.3ch Task Force focus PHY development on shielded balanced pair media, with transmission parameters as described in http://www.ieee802.org/3/ch/public/jul17/hopkinson_shariff_3ch_01_0717.pdf, and the STP noise immunity parameters http://www.ieee802.org/3/ch/public/jul17/cohen_shirani_3ch_01_0717.pdf, for the 5 Gb/s and 10 Gb/s rates.

Y: 34

N: 2

A: 21

Coaxial cable has been removed from consideration

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Presentations not related to objectives:

Three presentations on possible 10 Gb/s glass optical fibre PHY objective

Straw Poll #2

I can support the adoption of the objective defined in swanson_3ch_02b_0717.pdf

Yes: 21

No: 26

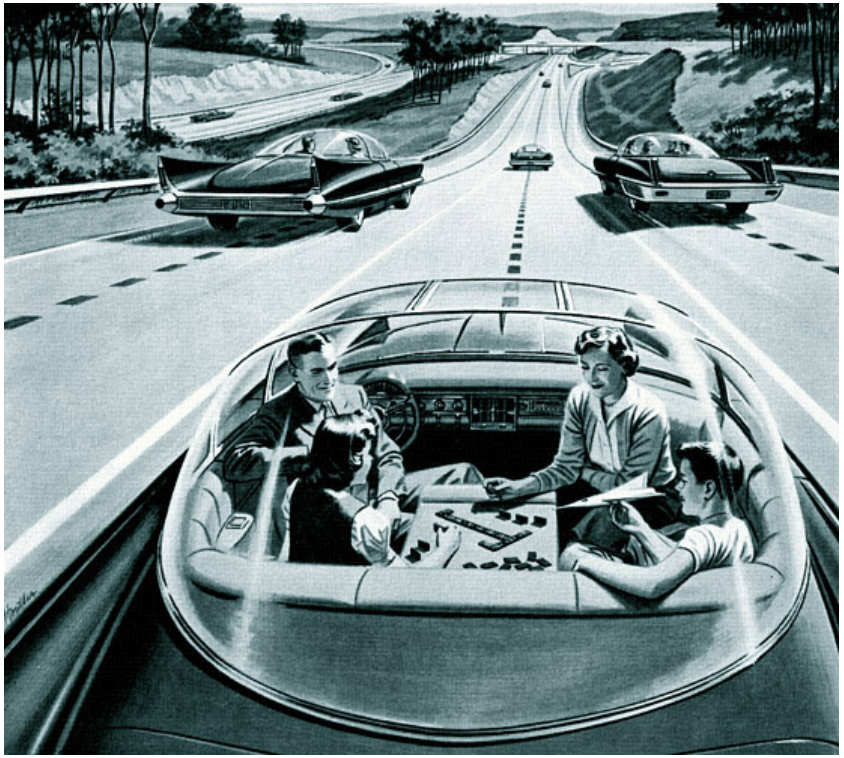
“Define the performance characteristics of an automotive link segment and an optical PHY to support 10 Gb/s point-to-point operation over this link segment supporting up to 4 inline connectors and up to at least 15m on automotive cabling

*abstentions were not counted at the straw poll author's request

Next Steps

- Continue ad hoc conference calls
  - Next call scheduled for July 26
- Continue work on cable/connectors
- Strawman PHY architecture proposals

Questions?



Thank you!