IEEE 802.3 Ethernet for Automotive Imaging Sensors (ISAAC) Study Group Agenda and General Information

Motions and Straw Polls

January 22-23 Interim Meeting

St. Petersburg, FL, USA

MOTIONS

Motion #2

- Move to approve the following objectives:
  - Define an electrical PHY to support up to 1 Gbps data rate point-to-point operation in one direction and up to 100 Mbps point-to-point operation in the other direction over the defined balanced-pair link segment.
  - Define an electrical PHY to support up to 1 Gbps data rate point-to-point operation in one direction and up to 100 Mbps point-to-point operation in the other direction over the defined unbalanced coaxial link segment.
- M: Kirsten M. S: Kamal D.
- Y: 33 N: 23 A: 8
- Motion Fails

Motion #3

- Move that the study group adopt the following for the PAR Scope:
  - Specify additions to and appropriate modifications of IEEE Std 802.3 to add:
    - Physical Layer specifications and management parameters for electrical media and operating conditions optimized for automotive end-node cameras for operation for the transfer of Ethernet frames at a rate of up to 15 Gbps in one direction and with a lower data rate in the other direction,
- M: George Zimmerman S: Ramin Shirani
- Y: 34 N: 25 A: 6
- Motion Fails

Motion #4

- Move that the study group adopt the following for the PAR Scope:
  - Physical Layer specifications and management parameters for electrical media and operating conditions optimized for automotive end-node cameras for operation up to 10 Gbps in one direction and with a lower data rate in the other direction,

  and
  - A protocol or sublayer for interfacing a physical layer device with different data rate capabilities in the transmit and receive directions to the existing 802.3 MAC with media independent interfaces at existing 802.3 rates.
- M: Ragnar J. S: George Z.
- Y: N: A:

Motion #5

- Move that the study group amend the text for Motion #4 to:
  - Physical Layer specifications and management parameters for electrical media and operating conditions optimized for automotive end-node camera links for operation up to 10 Gbps in one direction and with a lower data rate in the other direction,

  and
  - A protocol or sublayer for interfacing a physical layer device with different data rate capabilities in the transmit and receive directions to the existing 802.3 MAC with media independent interfaces at existing 802.3 rates.
- M: Ahmad C. S: George Z.
- Y: 49 N: 5 A: 6
- Motion Passes

Motion #4 (as amended)

- Move that the study group adopt the following for the PAR Scope:
  - Physical Layer specifications and management parameters for electrical media and operating conditions optimized for automotive end-node camera links for operation up to 10 Gbps in one direction and with a lower data rate in the other direction,

  and
  - A protocol or sublayer for interfacing a physical layer device with different data rate capabilities in the transmit and receive directions to the existing 802.3 MAC with media independent interfaces at existing 802.3 rates.
- M: Ragnar J. S: George Z.
- Y: 51 N: 4 A: 7
- Motion Passes

Motion #6

- Move that the study group delete the following text from the PAR Scope adopted by the Study Group in Motion #4 (as amended):
  - and
  - A protocol or sublayer for interfacing a physical layer device with different data rate capabilities in the transmit and receive directions to the existing 802.3 MAC with media independent interfaces at existing 802.3 rates.

- M: Peter J. S: George Z.
- Y: 49 N: 1 A: 8
- Motion Passes

Motion #7

- Move to adopt the responses in the PAR form from PAR_ISAAC_01_012324.pdf.
- M: Kamal D.
- S: Ragnar J.
- Y: 51 N: 0 A: 5
- Motion Passes

Motion #8

- Move to adopt the CSDs responses from 802d3_ISAAC_CSD_012324.pdf.
- M: Peter Jones
- S: Rich Boyer
- Y: 41 N: 0 A: 3
- Motion Passes

STRAW POLLS

Straw Poll #1

- I would support an objective asking for “Support of an optional energy saving mechanism” that exploits situations in which less data is sent than the capacity of the PHY allows for.
- Y: 41
- N: 14
- Abstain: 9

Straw Poll #2

- I would support objectives for a 1 Gbps/100 Mbps PHY (over a 15m 4 inline connector link segment).

“Define an electrical PHY to support up to 1 Gbps data rate point-to-point operation in one direction and up to 100 Mbps point-to-point operation in the other direction over the defined balanced-pair link segment”.

“Define an electrical PHY to support up to 1 Gbps data rate point-to-point operation in one direction and up to 100 Mbps point-to-point operation in the other direction over the defined unbalanced coaxial link segment”.

- Y: 33
- N: 19
- Abstain: 12

Straw Poll #3

- Of the following options concerning the PAR, I would support the following (see page 11, select as many as you like):
- a) Limit the PAR to 10 Gbps.
- b) Limit the PAR to 15 Gbps.
- c) Limit the PAR to 25 Gbps.
- d) Make the PAR open (“higher in one direction, lower in the other”).
- e) Abstain
- A) 29
- B) 32
- C) 23
- D) 12
- E) 9