

IEEE 802.3 Ethernet for Automotive Imaging Sensors (ISAAC) Study Group Update Report

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25 January 2024

IEEE 802.3 ISAAC Study Group

Study Group information

Study Group Organization

Jon Lewis, Chair

George Zimmerman, Recording Secretary

Natalie Wienckowski, Chief Editor

Study Group charter

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 an electrical physical layer specification and related functionality of a client optimized for automotive end-node cameras

Study Group web and reflector information

Reflector information: <https://www.ieee802.org/3/ISAAC/reflector.html>

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

IEEE 802.3 ISAAC Study Group Activities this week

Met Monday 13h00-18h00 and Tuesday 08h00-12h49

Big Ticket items/Goals for the meeting:

- Gain consensus on the PAR and CSDs.

Key Motions to progress the Study Group

Final 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 camera links for operation up to 10 Gb/s in one direction and with a lower data rate in the other direction.

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

Key Motions to progress the Study Group

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

IEEE 802.3 ISAAC Study Group Extension

- IEEE 802 LMSC Policies and Procedures subclause 5.5.5 'Other rules for PAR Study Groups'
 - A Study Group is chartered plenary session to plenary session
 - Rechartering of the IEEE 802.3 ISAAC Study Group requested at each plenary
- IEEE SA Standards Board Operations Manual subclause 5.2 'Project authorization'
 - Study Group may meet for a maximum of six months from the date of its first meeting
 - A single extension of six months may be provided by the Standards Committee
 - Standards Committee must include a rationale for granting the extension in its minutes
- The IEEE 802.3 ISAAC Study Group first met on 16 August 2023
 - Would not be able to meet after 16 February 2024 without an extension request
 - Request an extension at the 6 February 2024 IEEE 802 LMSC teleconference meeting

Rationale for the extension

The IEEE 802.3 ISAAC Study Group has completed drafting of an IEEE P802.3dm PAR and supporting CSD. The PAR and CSD have been submitted to the IEEE 802 LMSC for consideration at the March 2024 plenary session, and the PAR has been pre-submitted to NesCom for consideration at the March 2024 IEEE SA Standards Board series. This request for an extension is to allow the IEEE 802.3 ISAAC Study Group to address any items raised during these approval processes, such as comments received during the March 2024 IEEE 802 LMSC plenary session PAR and CSD review process or during the NesCom PAR review process.

WG Motion #?

Move that the Working Group approve the extension of the IEEE 802.3 Ethernet for Automotive Imaging Sensors (ISAAC) Study Group.

M: Jon Lewis

S: Peter Jones

Technical > 75%

Y: N: A:

Questions?

Thank you!