

IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Glenn Parsons Chair, ITU-T SG15
[REDACTED]
Marcos Martinez Rapporteur ITU-T Q3/15
[REDACTED]
Tony Zeng Associate Rapporteur ITU-T Q3/15
[REDACTED]

CC: Alpesh Shah Secretary, IEEE-SA Standards Board
Secretary, IEEE-SA Board of Governors
[REDACTED]
James Gilb Chair, IEEE 802 LMSC
[REDACTED]
Adam Healey Vice-chair, IEEE 802.3 Ethernet Working Group
[REDACTED]
Jon Lewis Secretary, IEEE 802.3 Ethernet Working Group
[REDACTED]
Natalie Wienckowski Chair, IEEE P802.3dm Task Force
[REDACTED]

From: David Law Chair, IEEE 802.3 Ethernet Working Group
[REDACTED]

Subject: Liaison response to SG15-LS104 "LS to inform the start of a study on in-vehicle optical network based on FIP technologies"

Approval: Agreed to at IEEE 802.3 plenary meeting, Montreal, Canada, July 16, 2026

Dear Colleagues,

Thank you for your liaison regarding the start of this project.

In-vehicle networks have been of interest to IEEE 802.3, addressed by multiple amendments including the published IEEE 802.3ch "Multi-Gigabit Automotive Ethernet PHY," and IEEE 802.3cy "Greater than 10 Gb/s Automotive Ethernet Electrical PHYs".

The published amendment IEEE 802.3cz "Multi Gigabit Automotive Optical PHY" (see IEEE 802.3 Clause 166) specifically addresses in-vehicle communications over a segmented multimode fiber harness, which could potentially overlap with the objective of your study due to its scope.

¹ This document solely represents the views of the IEEE 802.3 Working Group and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

In addition, the current IEEE 802.3dm “Asymmetrical Electrical Automotive Ethernet PHYs” specifically addresses the application of connecting cameras and image sensors to an electronic control unit, which could potentially have some application overlap with your study. P802.3dm is currently in Working Group ballot and is expected to be published in the first half of 2027.

Note that passive optical networks (PONs) have also been of interest to IEEE 802.3, which has developed multiple generations of passive optical network standards including symmetric Gbit/s Ethernet PON (EPON) in IEEE 802.3ah, 10 Gbit/s EPON in IEEE 802.3av, and both 25 Gbit and 50 Gbit/s EPON in IEEE 802.3ca.

Consequently, we agree that collaboration between IEEE 802.3 and Q3/15 would be beneficial.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group