

IEEE 802.3 Ethernet Working Group  
Liaison Communication

Source: IEEE 802.3 Working Group<sup>1</sup>

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Subject: Liaison to ISO TC 22 SC 32 on Automotive Ethernet standard activity  
Approval: Agreed to at IEEE 802.3 interim teleconference meeting, 21<sup>st</sup> January 2021

Dear Mr Masahiro Goto,

This correspondence is to inform you of work being done within IEEE 802.3 on higher speeds of Ethernet operation for Automotive Ethernet application.

The IEEE 802.3 Working Group has two current projects in this area:

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet, and  
IEEE P802.3cz Multi-Gigabit Optical Automotive Ethernet.

Each project is being developed by a corresponding IEEE 802.3 Task Force. The links for these Task Forces may be found on our IEEE 802.3 Working Group home page: [www.ieee802.org/3](http://www.ieee802.org/3).

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<sup>1</sup> 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.

These projects, as their names imply, will add to previously approved Automotive Ethernet specifications. IEEE Std 802.3-2018 includes specifications for operation over plastic optical fiber at 1 Gb/s and electrical media at data rates of 100 Mb/s and 1 Gb/s. An amendment IEEE Std 802.3ch-2020 added operation over electrical media at 2.5 Gb/s, 5 Gb/s and 10 Gb/s.

Both Task Forces are in the process of developing draft amendments to IEEE Std 802.3. The objectives for P802.3cz target operation over optical fiber at 2.5 Gb/s, 5 Gb/s, 10 Gb/s, 25 Gb/s, and 50 Gb/s. The objectives for P802.3cy target operation over electrical media at 25 Gb/s, 50 Gb/s and 100 Gb/s.

We look forward to working together in the future to accelerate the adoption of Ethernet into road vehicles.

Sincerely,  
David Law  
Chair, IEEE 802.3 Ethernet Working Group