

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

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From: David Law Chair, IEEE 802.3 Ethernet Working Group
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Subject: Liaison letter to IEEE 802.1 regarding IEEE 802.1AS and multi-drop Ethernet

Approval: Agreed to at IEEE 802.3 Interim Meeting, Charlotte, NC, USA, 14th September 2017

Dear Glenn, Janos and Jessey

We would like to inform you that the IEEE 802.3 Ethernet Working Group has an active Task Force chartered to develop 10 Mb/s single pair Ethernet for use cases including automobiles, building automation and industrial automation. The webpage for the Task Force may be found at <<http://www.ieee802.org/3/cg/index.html>>.

The Task Force is investigating developing a half-duplex multi-drop PHY based on CSMA/CD to serve some of our use cases (see <http://www.ieee802.org/3/cg/public/Sept2017/kaindl_matheus_3cg_01c_09_2017.pdf>).

We intend to support IEEE 802.1AS and other TSN standards with this PHY. We would like your opinion and advice on any issues that might arise supporting IEEE 802.1AS on a multi-drop media, see <http://www.ieee802.org/3/cg/public/Sept2017/gunther_3cg_01a_0917.pdf> for some thoughts on this topic.

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.

As this effort in the IEEE 802.3 Working Group continues, we look forward to continuing close cooperation with the IEEE 802.1 Working Group. Information regarding future IEEE 802.3 meetings may be found at <<http://www.ieee802.org/3/interims/index.html>>.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group