

IEEE 802.3 Ethernet Working Group  
**DRAFT** Liaison Communication

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

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From: David Law                      Chair, IEEE 802.3 Ethernet Working Group  
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Subject: Liaison reply to TR42

Approval: Agreed to at IEEE 802.3 Closing Plenary Teleconference, July 23, 2020

Dear Mr. Sandels,

Thank you very much for your letter.

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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.

IEEE 802.3 Ethernet specifications are interoperability specifications and do not specify the electromagnetic performance of the end devices. Electromagnetic compatibility is outside the scope of 802.3 interface specifications. From IEEE 802.3cg 146.9.2.2: A system integrating the 10BASE-T1L PHY is expected to comply with all applicable local and national codes for electromagnetic compatibility.

A system vendor would use their application requirements for electromagnetic capability along with vendor specific performance for PHY-chip noise tolerance along with the common mode rejection requirements for the cabling and MDI to conceive the appropriate design.

The required absolute common mode voltage range will vary by application and is outside the scope of IEEE 802.3 standards.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group