

IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

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Subject: Liaison reply to TR42

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Dear Mr. Sandels,

Thank you very much for your letter.

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.

IEEE 802.3 Ethernet specifications are interoperability specifications and do not specify the electromagnetic performance of the attached 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.

When designing systems to meet their application requirements for electromagnetic capability, a vendor is responsible for using the noise tolerance performance of the included PHY component(s) along with the common mode rejection and insertion loss characteristics of the cabling and the MDI.

The absolute common mode voltage range varies by application, and as such is outside the scope of IEEE 802.3 standards.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group