

## IEEE 802.3 Ethernet Working Group 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 TR-42 Liaison to IEEE 802.3 Working Group regarding TIA TR-42.7 project entitled "Guidelines for the use of installed cabling to support 2.5GBASE-T and 5GBASE-T"

Approval: Agreed to at IEEE 802.3 Plenary meeting, Berlin, Germany, March 12, 2015

Dear Mr. Emplit,

Thank you for your communication of support for IEEE 802.3 Next Generation Enterprise Access BASE-T PHY Study Group. The study group has responded to an ISO/IEC liaison letter regarding NGEABT with the following information related to cabling attached below for your consideration. We are working on developing specifications and will keep you updated as we progress. We welcome your input.

Q: Class E is specified up to 250 MHz and Class D up to 100 MHz. We would appreciate information on the maximum frequency you expect.

A: The study group call for interest included technical feasibility information illustrating frequencies to 100 MHz for the 2.5 Gb/s PHY and frequencies to 200 MHz for the 5 Gb/s PHY operation.

Q: Alien crosstalk is not specified for either Class D or Class E. Do you foresee a need to qualify that for this installed base?

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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.

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A: The study group expects that alien crosstalk will need to be considered for both 2.5 Gb/s and 5 Gb/s operation

Q: Are there any other parameters that may need to be qualified?

A: The study group currently expects that Cat 5e and Cat6 cabling parameters are sufficient with the inclusion of alien crosstalk.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group