

## 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: Update on IEEE P802.3cg 10 Mb/s over single balanced twisted-pair Ethernet

Approval: Agreed to at IEEE 802.3 Plenary Meeting, Berlin, Germany, 13<sup>th</sup> July 2017

Dear Mr Oehler,

Further to our liaison to you dated 16<sup>th</sup> March 2017, we are pleased to provide you with an update on recent decisions that may be relevant to your work in supporting single-pair cabling systems.

We have adopted a PAM3 based modulation scheme described in slides 4 and 5 of the following presentation as a baseline specification for the IEEE P802.3cg 1,000m PHY objective: [http://www.ieee802.org/3/cg/public/May2017/Graber\\_3cg\\_08a\\_0517.pdf](http://www.ieee802.org/3/cg/public/May2017/Graber_3cg_08a_0517.pdf).

We have adopted the electromagnetic classifications described in slide 13 of the following presentation as a baseline specification for the IEEE P802.3cg 1,000m PHY objective: [http://www.ieee802.org/3/cg/public/May2017/diminico\\_01\\_0517.pdf](http://www.ieee802.org/3/cg/public/May2017/diminico_01_0517.pdf).

We have also adopted a DC Loop Resistance limit described in slide 19 of the following presentation as a baseline specification for the IEEE P802.3cg 1,000m PHY objective: [http://www.ieee802.org/3/cg/public/May2017/diminico\\_02\\_0517.pdf](http://www.ieee802.org/3/cg/public/May2017/diminico_02_0517.pdf).

We would welcome any questions or comments you may have on this.

Sincerely,  
David Law  
Chair, IEEE 802.3 Ethernet Working Group

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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.