

IEEE 802.3 Ethernet Working Group  
**EC REVIEW 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 Liaison SG15-LS311, "LS/r Status of IEEE 802.3ct and 802.3cw projects" dated 23 April 2021.

Approval: Agreed to at IEEE 802.3 plenary teleconference meeting, 22<sup>nd</sup> July 2021

Dear Mr Trowbridge and Members of ITU-T SG15,

Thank you for your interest in the IEEE P802.3ct and IEEE P802.3cw projects.

On June 16 IEEE P802.3ct (D3.4) was formally ratified as a standard by the IEEE SA Standards Board, and was published on July 9, 2021. Copies of a published standard may be requested by an external organization via the "IEEE Standards Permission for Use" form (see <https://standards.ieee.org/ipr/copyright-permissions-form.html>).

Since our last communication, the IEEE P802.3cw Task Force generated its initial draft (D1.0) and conducted its first task force review. During this review the task force adopted an approach to address optical crosstalk that was developed within its Optical Crosstalk Ad hoc,

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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.

see [https://www.ieee802.org/3/cw/public/tf\\_interim/21\\_0429/maniloff\\_3cw\\_01a\\_210429.pdf](https://www.ieee802.org/3/cw/public/tf_interim/21_0429/maniloff_3cw_01a_210429.pdf). This and other changes adopted during the first review were subsequently implemented in the next draft of the IEEE P802.3cw specification, D1.1, which is currently in its first task force review recirculation that is scheduled to be completed on August 6, 2021.

We are happy to provide you with the current copy of IEEE P802.3cw draft D1.1. We request that this be shared only with your membership.

Currently, IEEE P802.3cw D1.1 is intending to leverage EVM as a Tx quality metric, with the understanding that the approach and the appropriate value must be developed for the DP-16QAM modulation used by 400GBASE-ZR.

The Task Force has created the EVM Ad hoc, and chartered it with the following –

- 1) Develop baseline descriptive text
- 2) Evaluate any submitted test data
- 3) Confirm the suitability of EVM as a Tx quality metric
- 4) Recommend values for EVM related parameters

Information regarding the work of the EVM Ad hoc may be found at <https://www.ieee802.org/3/cw/public/adhoc/index.html>.

We would appreciate any input that ITU-T SG15 may have regarding this issue and look forward to future collaboration between our two groups.

Sincerely,  
David Law  
Chair, IEEE 802.3 Ethernet Working Group