

IEEE 802.3 Ethernet Working Group
EC REVIEW DRAFT Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Glenn Parsons Chair, ITU-T SG15
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CC: Alpesh Shah Secretary, IEEE-SA Standards Board
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From: David Law Chair, IEEE 802.3 Ethernet Working Group

Subject: Liaison reply to SG15-LS88, "LS on B400G work and EVM"

Approval: Agreed at IEEE 802.3 interim meeting, St. Petersburg, FL, USA, 25 January 2024

Dear Mr Parsons and members of ITU-T SG15 Q6/15,

Thank you for your liaison, regarding the announcement of Q6's work item to add 800G DWDM application codes to Rec. ITU-T G.698.2.

Regarding the question posed in your liaison related to EVM script contributions, at this time the IEEE 802.3 Working group has not received any scripts contributions related to EVM for any of its coherent signalling projects.

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.

Please note the following, stated on the IEEE 802.3 home page at <https://www.ieee802.org/3/>, regarding contributions to IEEE Standards Projects:

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The IEEE P802.3cw Task Force has been exploring confirmation of the use of EVM for the 400GBASE-ZR PHY, which is based on DP-16QAM signaling. To date, the IEEE P802.3cw Task Force has received the following submissions addressing this topic.

- “ROSNR and EVM Correlation Study for 400G ZR Modules,” see: https://www.ieee802.org/3/cw/public/adhoc/22_0223/rahn_3cw_01a_220223.pdf
- “400GBASE-ZR Performance versus Tx EVM,” see: https://www.ieee802.org/3/cw/public/22_03/maniloff_3cw_01_220314.pdf
- “400GBASE-ZR EVM Characterization,” see: https://www.ieee802.org/3/cw/public/22_0516/williams_3cw_01_220516.pdf

Additionally, the IEEE P802.3cw Task Force has reviewed the following OIF White Paper:

- “400ZR Interoperability White Paper OFC 2023 Plugfest,” see: https://www.oiforum.com/wp-content/uploads/OIF_400ZR_OFC2023_Interop_WhitePaper_Plugfest.pdf

Please be aware that the initial IEEE Standards Association Ballot of IEEE P802.3cw draft D3.0 completed on 18 January 2024. Comments submitted during the ballot will be considered at an electronic IEEE P802.3cw interim meeting to be held on 12-15 February 2024 (see <https://www.ieee802.org/3/ct/email/msg01167.html>).

IEEE P802.3cw draft D3.0 has been attached for your reference.

We look forward to the continued collaboration between our two groups.

Sincerely,
David Law
Chair, IEEE 802.3 Ethernet Working Group