

IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

Source: IEEE 802.3 Working Group¹

To: Glenn Parsons Chair, ITU-T Study Group 15
Fabio Cavaliere Rapporteur Q6/15

CC: Alpesh Shah Secretary, IEEE-SA Standards Board
Secretary, IEEE-SA Board of Governors
Paul Nikolich Chair, IEEE 802 LMSC
Adam Healey Vice-chair, IEEE 802.3 Ethernet Working Group
Jon Lewis Secretary, IEEE 802.3 Ethernet Working Group
John D'Ambrosia Chair, IEEE P802.3cw / dj Task Forces
Mark Nowell Vice-chair, IEEE P802.3dj Task Force

From: David Law Chair, IEEE 802.3 Ethernet Working Group

Subject: Liaison reply to G15-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.

In regards to 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 related to EVM for any of its coherent signalling projects.

Please note the following, stated on the IEEE 802.3 webpage (see <https://www.ieee802.org/3/>) regarding contributions to IEEE Standards 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.

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

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

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

Sincerely,
David Law
Chair, IEEE 802.3 Ethernet Working Group