



Question(s): 6/15

Geneva, 13-24 October 2025

LS

(Ref.: TD149R1/Plen-Annex VIII)

Source: ITU-T Study Group 15

Title: LS on status of discussion at Q6/15 about 800G applications in G.698.2 and new B1T applications.

LIAISON STATEMENT

For action to: -

For information
to: IEEE 802.3 Working Group

Approval: ITU-T SG15 meeting (Geneva, 24 October 2025)

Deadline: -

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Abstract: This is a liaison statement to inform the IEEE 802.3 Working Group about the discussion at Q6/15 on 800G applications in G.698.2 and new B1T applications.

ITU-T Q6/15 would like to thank IEEE 802.3 for the continued cooperation on the development and validation of the Extended Transmitter Constellation Closure (ETCC) as the Transmitter Quality Metric (TQM) for coherent Ethernet PHYs. We acknowledge receipt of your liaison [IEEE 802.3-00154, September 2025] and IEEE P802.3dj draft D2.2 shared via liaison [IEEE 802.3-00155, 4 October 2025], describing the updates to the ETCC reference receiver, including the introduction of a reference post-equalizer following carrier phase recovery.

Q6/15 has verified, via contribution SG15-C0616, presented at the October 2025 SG15 Plenary Meeting, the specification of the reference post-equalizer as defined in IEEE P802.3dj draft D2.2 (Clause 185A.2.3.7 and Table 187–14), confirming the validity of the approach.

Q6/15 appreciates the progress made in the IEEE P802.3dj Task Force in formalizing this specification and confirms that our verification supports its adoption as the reference method for ETCC measurement.

During the October SG15 Plenary Meeting, Q6/15 also updated the optical parameters for 800G applications in Rec. ITU-T G.698.2, generating a new draft, in TD103R1/WP2, here attached for information.

Finally, Q6/15 would like to inform IEEE 802.3 that Q6/15 is evaluating single-carrier and sub-carrier modulation options for B1T OTN long-reach interfaces, but no decision has been made.

We look forward to continuing the cooperation with IEEE 802.3 on further validation and refinement of the ETCC methodology.

Attachment:

- Consideration of Reference Post-Equalizers for ETCC Measurement (C.616)
- Draft revised G.698.2 version 3.0.5 (TD103R1/WP2)