



August 30, 2021

To: David Law and participants of the IEEE 802.3 Ethernet Working Group ([REDACTED])
cc: John D'Ambrosia – IEEE P802.3cw Task Force Chair ([REDACTED])

Subject: 400ZR IA Maintenance Project Update

From: Klaus-Holger Otto, OIF Technical Committee Chair ([REDACTED])

Dear Mr. Law and participants of IEEE 802.3 Working Group,

Thank you for your liaison reply to liaison “400ZR IA Maintenance project”, dated 19th May 2021, and the IEEE P802.3cw D1.1 draft document. The OIF Q3 Technical and MA&E Committees meetings were held virtually from August 2nd through August 6th 2021. As reported in previous liaisons, a key aspect of the Maintenance IA is to address 400ZR transceivers operating on 75GHz channels (appcode 0x03). The Maintenance IA also intends to normalize EVM as a Tx quality metric.

The OIF agreed to a Tx spectral mask, and definitions for the “Black Link” with certain spectral properties (e.g., optical filter parameters at the Mux/Dmux). The EVM definitions were also updated to clarify different interpretations of EVM_{max} , vs. EVM_{rms} .

During this meeting we approved an update to the baseline document - oif2021.301.05 (attached) as the 400ZR IA Maintenance baseline. The 400ZR, 75 GHz DWDM amplified - Application Code (0x03) parameters can be found in Section 13.3. The EVM updates are included in section 14.4 and any new or updated optical parameter definitions can be found in Section 13.4.

We very much appreciate our ability to liaise with IEEE P802.3cw and look forward to any updates from the P802.3cw Task Force on this specific topic.

Sincerely,

Klaus-Holger Otto,
OIF Technical Committee Chair ([REDACTED])

Attachment: oif2020.301.05

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