

IEEE 802.3 Ethernet Working Group  
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 "800ZR/800LR IA Project Update", dated 19 May 2022

Approval: Agreed to at IEEE 802.3 plenary meeting, Montreal, Canada, 14 July 2022

Dear Mr Otto and members of the OIF,

We would like to thank the OIF for providing a status update on the progress of the 800ZR/800LR IA project.

The IEEE P802.3df Task Force has been meeting regularly since our last communication on 17 March 2022. The proceedings of all task force meetings may be found at <https://www.ieee802.org/3/df/public/index.html>. In addition to these meetings, the IEEE P802.3df Task Force formed three ad hocs: 1) Architecture and Logic; 2) Electrical; and 3) Optics. Presentation material from these ad hoc meetings may be found at <https://www.ieee802.org/3/df/public/adhoc/index.html>.

The IEEE P802.3df Task Force has adopted a number of baselines, primarily targeting 100 Gbps/lane PMDs and electrical interfaces targeting 400 Gb/s Ethernet and 800 Gb/s Ethernet. A summary of these decisions and others may be found at [https://www.ieee802.org/3/df/KeyMotions\\_3df\\_220602.pdf](https://www.ieee802.org/3/df/KeyMotions_3df_220602.pdf).

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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.

Presentations related to IMDD and coherent optics targeting 800 Gb/s Ethernet operation over 10 km of single mode fiber have been shared with the Task Force, but no decisions regarding the baseline have been made.

One decision made by the Task Force that may be relevant to the development of the 800LR Interface is the adoption of a logic architecture of the IEEE P802.3df project. This architecture leverages 800GMII extenders. Further details may be found at [https://www.ieee802.org/3/df/public/22\\_05/22\\_0517/gustlin\\_3df\\_01a\\_220517.pdf](https://www.ieee802.org/3/df/public/22_05/22_0517/gustlin_3df_01a_220517.pdf). Please note that specific details of the 800GMII extender have not been determined.

Your last liaison noted that the group is currently working on the optical specifications for 800ZR. Are any details related to the development of the optical specifications for 800LR available that can be shared?

The IEEE P802.3df Task Force is also interested in OIF's CMIS-LT and requests any information that can be shared.

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

Sincerely,  
David Law  
Chair, IEEE 802.3 Ethernet Working Group