

IEEE 802.3 Ethernet Working Group  
**DRAFT** 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 "800LR IA Project update", dated 29 August 2022  
Approval: Agreed to at IEEE 802.3 Plenary Meeting, 17 November 2022

Dear Mr. Otto and members of the OIF,

We would like to thank the OIF for its ongoing communications regarding the status of the 800LR IA Project.

As previously communicated, the IEEE P802.3df Task Force has been spending this year in the baseline process selection. A summary of all key decisions made by the Task Force may be found at [https://www.ieee802.org/3/df/KeyMotions\\_3df\\_221005.pdf](https://www.ieee802.org/3/df/KeyMotions_3df_221005.pdf). As it pertains to the objective targeting 800 Gb/s Ethernet operation over 10 km of single mode fiber, presentations related to IMDD and coherent optics have been shared with the Task Force, but no decisions regarding the baseline have been made.

Overall, the IEEE P802.3df Task Force has made rapid progress on the objectives addressing 100 Gb/s/lane PMDs and electrical interfaces targeting 400 GbE and 800 GbE. All baselines related to these objectives have been adopted. Based on this progress, and the perceived schedule differences between efforts targeting 100 Gb/s/lane PMDs and those targeting greater than 100 Gb/s/lane PMDs, the IEEE P802.3df Task Force requested:

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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.

- The scope of the IEEE P802.3df Project Authorization Request (PAR) be modified to address physical layer specifications and interfaces based on 100 Gbps / lane for 400 Gb/s and 800 Gb/s.
- The creation of the IEEE P802.3dj PAR with a scope to address PMD objectives for 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet operation that leverage greater than 100 Gbps/lane signaling

The modified IEEE P802.3df PAR and the new IEEE P802.3dj PAR were approved by the IEEE SA Standards Board on Saturday, 03 December 2022. The approved IEEE P802.3df PAR Modification, related objectives, and adopted timeline may be found at <https://www.ieee802.org/3/df/index.html>. The approved IEEE P802.3dj PAR and objectives may be found at the new IEEE P802.3dj Task Force webpage, <https://www.ieee802.org/3/dj/index.html>.

The Task Force generated IEEE P802.3df D1.0, addressing 100 Gbps/lane PMDs and electrical interfaces targeting 400 GbE and 800 GbE. This draft has already undergone its first Task Force Review, and consideration of the submitted comments will happen at a series of electronic Task Force meetings during the weeks of 05 December 2022 and 12 December 2022.

The first meeting of the IEEE P802.3dj Task Force will be held at the IEEE 802.3 January 2023 Interim that will be held the week of 16 January 2023. Information regarding this interim may be found at <https://www.ieee802.org/3/interims/index.html>. Upon formation, the Task Force will begin the process of determining baseline selections and consider its project timeline.

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

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group