

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  
[REDACTED]

Subject: Single Pair Power over Ethernet (SPoE)

Approval: Agreed to at IEEE 802.3 plenary teleconference meeting, 22<sup>nd</sup> July 2021

Dear Mr Peronnet and members of IEC TC64,

IEEE 802.3 would like to thank IEC TC64 for preparing IEC 60364-7-716 in support of using ISO 11801-1:2017 Classes D, E, E<sub>A</sub>, F, F<sub>A</sub>, I, and II for DC remote powering applications including IEEE 802.3 Power over Ethernet (PoE).

As this time, IEEE 802.3 would like to request guidance from IEC TC64 regarding if further standardization is required in the IEC 60364 series, or other standards, with regard to Single Pair Ethernet such as the Single Pair Power over Ethernet (SPoE) applications defined in

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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.

IEEE Std 802.3cg-2019 and the associated classes, SP-T1A, SP-T1B, and SP-T1C, being developed by our Category C liaison group ISO/IEC JTC1 SC25 WG3.

As the conductor size, maximum current, maximum length, and power architecture of SPoE all deviate from 4-pair PoE, we ask if IEC TC64 can assist in preparing any appropriate standards relating to DC power distribution over Single Pair Information Technology Cable Infrastructure.

Additionally, we would like to make TC64 aware that IEEE 802.3 continues to develop powering specifications related to Ethernet. These include IEEE P802.3dd, maintenance on Clause 104 powering for Single Pair Ethernet, and IEEE P802.3da which is enhancing multidrop functionality introduced in 802.3cg to include, among other things, powering.

For your reference, IEEE Std 802.3cg-2019 can be obtained at no cost through the IEEE GET 802™ program at <<https://ieeexplore.ieee.org/document/8982251>>. We look forward to working with you to address any issues you may highlight.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group