IEEE 802.3 motions

IEEE 802 EC

Friday 18 March 2022

5.035 ME: IEEE P802.3dg 100 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors to NesCom

IEEE P802.3dg 100 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors to NesCom

Title

Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 100 Mb/s Operation and Associated Power Delivery over a Single Balanced Pair of Conductors

Scope of project

This project will specify additions to and appropriate modifications of IEEE Std 802.3 to add 100 Mb/s Physical Layer specifications and management parameters for operation, and associated optional provision of power, using a single balanced pair of conductors.

Need

Applications such as those used in automation and process control industries have begun the transition of legacy networks to Ethernet. A reduced number of conductors and interface components supporting greater than 10 Mb/s Ethernet will provide a basis for an optimized solution in these applications. Growth in traffic and new applications demand greater bandwidth. IEEE Std 802.3 does not currently support greater than 10 Mb/s over a single balanced pair of conductors longer than 40 m.

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Motion

Approve forwarding IEEE P802.3dg PAR documentation in https://mentor.ieee.org/802-ec/dcn/22/ec-22-0017-03-00EC-draft-ieee-p802-3dg-par.pdf to NesCom

Approve CSD documentation in https://mentor.ieee.org/802-ec/dcn/22/ec-22-0018-00-00EC-draft-ieee-p802-3dg-csd.pdf

M: Law, S: D'Ambrosia

Y: ??, N: ?, A: ?

Working Group vote

PAR: Y: 77, N: 0, A: 6
CSD: Y: 73, N: 1, A: 9