

IEEE 802.3 Ethernet Working Group Liaison Communication

Source: IEEE 802.3 Working Group¹

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Subject: IEEE 802.3cg 10 Mb/s Single Twisted Pair Task Force use cases for in-building applications

Approval: (PROPOSED DRAFT) Agreed to at IEEE 802.3 interim meeting, New Orleans
 LA, 25 May 2017

Dear Ray,

We would like to inform you that IEEE 802.3cg 10SPE is continuing to make progress in the industrial and automotive environments and has adopted a baseline link segment specification for industrial/process control applications as a first step in this broad application space. At the May 2017 interim meeting, the IEEE 802.3cg 10SPE task force discussed several additional commercial building use cases and is working to address these as part the PHY and link segment specifications. These use cases and associated link segment considerations may be of interest to the TIA TR42 formulating sub-committees working on single twisted pair cabling.

¹ 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.

- In building control networks supporting sensing devices, actuator devices, safety devices
- In building security networks including cameras, access control devices, and
- Display networks supporting signage and conference room schedule tablets, emergency management

Additional details of use cases outlined above are available in the URLs shown below;

http://www.ieee802.org/3/cg/public/May2017/moffitt_shariff_3cg_01a_0517.pdf

http://www.ieee802.org/3/cg/public/May2017/herbst_3cg_01_0517.pdf

The objectives of IEEE 802.3cg task force are posted at:

http://www.ieee802.org/3/cg/objectives_10SPE_111016.pdf

To address the 15 m PHY and media use case within the 100 m reach commonly used in commercial buildings, there is a need to locate 10 SPE equipment closer to the edge of the network to support devices described in the above use cases. We request that you consider options for locating such equipment and let us know how the building cabling may accommodate such equipment.

Please let us know if you have any questions and if you need any further information on these activities.

Sincerely,

David Law

Chair, IEEE 802.3 Ethernet Working Group