

IEEE Draft P802.3ah™/D1.2

Draft Amendment to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications—

Media Access Control Parameters, Physical Layers and Management Parameters for subscriber access networks

Sponsor

**LAN MAN Standards Committee
of the
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This is the text proposed by the IEEE 802.3ah Ethernet in the First Mile Task Force editors as draft D1.2 of an amendment to IEEE Std 802.3-2002. This draft combines a minimal set of extensions to the IEEE 802.3 Media Access Control (MAC) and MAC Control sublayers with a family of Physical (PHY) Layers. These Physical Layers include optical fiber and voice grade copper cable Physical Medium Dependent sublayers (PMDs) for point to point connections in subscriber access networks. This draft also introduces the concept of Ethernet Passive Optical Networks (EPONs), in which a point to multipoint (P2MP) network topology is implemented with passive optical splitters, along with optical fiber PMDs that support this topology. In addition, a mechanism for network Operations, Administration and Maintenance (OAM) is included to facilitate network operation and troubleshooting. This draft is being distributed for review and comment within the IEEE 802.3ah Ethernet in the First Mile Task Force. It represents an attempt by the Task Force editors to convert the suite of baseline presentations that have been adopted by the Task Force into text, along with the incorporation of changes agreed to at the November, 2002 Task Force meeting in Kauai, HI. The draft has no special status, and ALL OF IT IS SUBJECT TO CHANGE. The formal expiration date of this draft is January 10, 2003.

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