

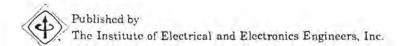


IEEE Standards for Local and Metropolitan Area Networks:

Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications

System Considerations for Multisegment 10 Mb/s Baseband Networks (Section 13)

Twisted-Pair Medium Attachment Unit (MAU) and Baseband Medium, Type 10BASE-T (Section 14)





Abstract: This Local Area Network (LAN) standard, IEEE Std 802.3;-1990 (supplement to ISO/IEC 8802-3;1990 [ANSI/IEEE Std 802.3-1990 Edition]), specifies the Type 10BASE-T Medium Attachment Unit (MAU) and one specific unshielded twisted-pair medium for use with the MAU. This MAU is specified for use in a 10 Mb/s baseband CSMA/CD LAN. Guidelines for its application in a repeatered multisegment heterogeneous CSMA/CD network are included.

ISBN 1-55937-070-X

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December 31, 1990

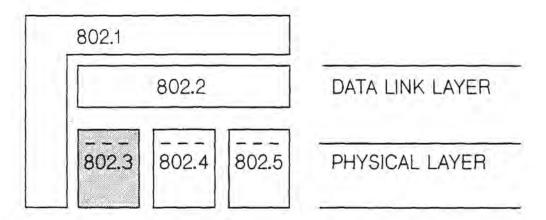
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Foreword

(This Foreword is not a part of IEEE Std 802.3i-1990.)

This supplement is part of a family of standards for Local and Metropolitan Area Networks. The relationship between this standard and other members of the family is shown below. (The numbers in the figure refer to IEEE standard numbers.)



This family of standards deals with the Physical and Data Link Layers as defined by the ISO Open Systems Interconnection Basic Reference Model (ISO 7498:1984). The access standards define three types of medium access technologies and associated physical media, each appropriate for particular applications or system objectives. The standards defining these technologies are as follows:

- ISO/IEC 8802-3 [ANSI/IEEE Std 802.3-1990 Edition], a bus utilizing CSMA/CD as the access method;
- (2) ISO/IEC 8802-4 [ANSI/IEEE Std 802.4-1990], a bus utilizing tokenpassing as the access method;
- (3) ANSI/IEEE Std 802.5-1989, a ring utilizing token-passing as the access method.

Other access methods (for example, metropolitan area networks and integrated voice-data networks) are under investigation.

ISO 8802-2 [ANSI/IEEE Std 802.2-1989], the logical link control (LLC) standard, is used in conjunction with the medium access standards.

IEEE Std 802-1990* describes the relationship among the family of 802 standards and their relationship to the ISO Open Systems Interconnection Basic Reference Model in more detail. IEEE Std 802.1D-1990 deals with media ac-



^{*} The 802 Architecture and Overview Specification, originally known as IEEE Std 802.1A, has been renumbered as IEEE Std 802. This has been done to accommodate recognition of the base standard in a family of standards. References to IEEE Std 802.1A should be considered as references to IEEE Std 802.

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