

**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)**

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)**



Published by
The Institute of Electrical and Electronics Engineers, Inc.

Abstract: This Local Area Network (LAN) standard, IEEE Std 802.3i-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

© Copyright 1990 by

**The Institute of Electrical and Electronics Engineers, Inc.
345 East 47th Street, New York, NY 10017-2394, USA**

*No part of this publication may be reproduced in any form,
in an electronic retrieval system or otherwise,
without the prior written permission of the publisher.*

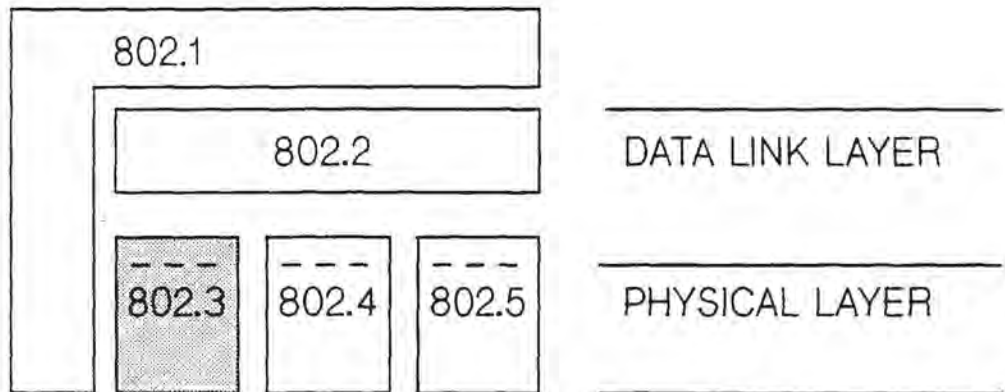
December 31, 1990

SH13763

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:

- (1) 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 token-passing 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.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.