

IEEE Std 802.9c-1995

IEEE Std 802.9c-1995
(Supplement to
IEEE Std 802.9-1994)

IEEE Standards for Local and Metropolitan Area Networks:

Supplement to Integrated Services (IS) LAN Interface at the Medium Access Control (MAC) and Physical (PHY) Layers:

Managed Object Conformance Statement (MOCS) Proforma

IEEE Computer Society

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**LAN MAN Standards Committee
of the
IEEE Computer Society**

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Abstract: The Managed Object Conformance Statement (MOCS) proforma for IEEE Std 802.9-1994 is provided. The MOCS specified in this supplement pertains to ISLAN4-T, which uses 4.096 Mbit/s Physical Layer transport and ISLAN20-T, which uses 20.48 Mbit/s Physical Layer transport. Standardization of ISLAN16-T (IEEE Std 802.9a-1995) and ISLANAU-AU, which specifies the AU-to-AU interworking (IEEE P802.9b) is in progress at this time; therefore, the specification of MOCS for ISLAN16-T and ISLANAU-AU is not included in this supplement.

Keywords: hybrid multiplexer (HMUX) sublayer, implementation under test (IUT), integrated services (IS), integrated services digital network (ISDN), local area network (LAN), medium access control (MAC) sublayer, managed object conformance statement (MOCS) proforma, Physical (PHY) Layer, physical medium dependent (PMD) sublayer, physical signalling (PS) sublayer, protocol capabilities, protocol data units, system parameters, system under test (SUT)

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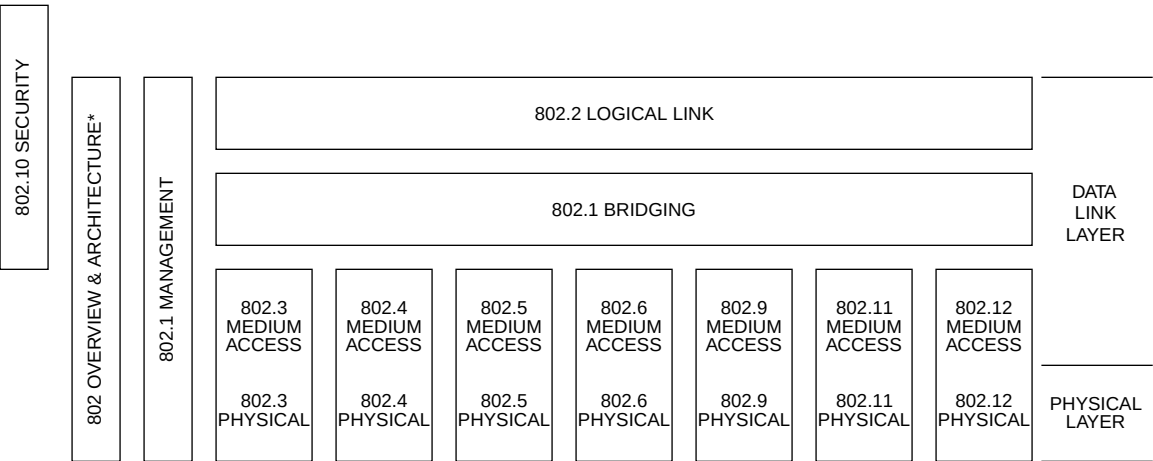
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Introduction

[This introduction is not part of IEEE Std 802.9c-1995, IEEE Standards for Local and Metropolitan Area Networks: Supplement to Integrated Services (IS) LAN Interface at the Medium Access Control (MAC) and Physical (PHY) Layers: Managed Object Conformance Statement (MOCS) Proforma.]

This standard is part of a family of standards for local and metropolitan area networks. The relationship of the members of the family to each other is shown below. (The numbers in the figure refer to IEEE standard numbers.)



* Formerly IEEE Std 802.1A.

This family of standards deals with the Physical and Data Link Layers as defined by the International Organization for Standardization (ISO) Open Systems Interconnection Basic Reference Model (ISO 7498). The access standards define several types of medium access technologies and associated physical media, each appropriate for particular applications or system objectives. Other types are under investigation. The IEEE 802.9 ISLAN Interface Standard specifies both isochronous and packet mode services, and provides access to ISDN and other backbone networks for service provisioning.

The standards defining these technologies are as follows:

- IEEE Std 802¹: Overview and Architecture. This standard provides an overview to the family of IEEE 802 Standards. This document forms part of the 802.1 scope of work.
- ISO/IEC 15802-2 [IEEE Std 802.1B and 802.1k]: LAN/MAN Management. Defines an Open Systems Interconnection (OSI) management-compatible architecture, and services and protocol elements for use in a LAN/MAN environment for performing remote management.
- ISO/IEC 10038 [ANSI/IEEE Std 802.1D]: MAC Bridging. Specifies an architecture and protocol for the interconnection of IEEE 802 LANs below the MAC service boundary.

¹The 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.

- ISO/IEC 15802-4 [ANSI/IEEE Std 802.1E]: System Load Protocol. Specifies a set of services and protocol for those aspects of management concerned with the loading of systems on IEEE 802 LANs.
- ISO/IEC 8802-2 [ANSI/IEEE Std 802.2]: Logical Link Control
- ISO/IEC 8802-3 [ANSI/IEEE Std 802.3]: CSMA/CD Access Method and Physical Layer Specifications
- ISO/IEC 8802-4 [ANSI/IEEE Std 802.4]: Token Bus Access Method and Physical Layer Specifications
- ISO/IEC 8802-5 [ANSI/IEEE Std 802.5]: Token Ring Access Method and Physical Layer Specifications
- ISO/IEC 8802-6 [ANSI/IEEE Std 802.6]: Distributed Queue Dual Bus Access Method and Physical Layer Specifications
- IEEE Std 802.9: Integrated Services (IS) LAN Interface at the Medium Access Control (MAC) and Physical (PHY) Layers
- IEEE Std 802.10: Interoperable LAN/MAN Security
- IEEE Std 802.12: Demand Priority Access Method, Physical Layer and Repeater Specification

In addition to the family of standards, the following is a recommended practice for a common technology:

- IEEE Std 802.7: IEEE Recommended Practice for Broadband Local Area Networks

The following additional working groups have authorized standards projects under development:

- IEEE 802.11: Wireless LAN Medium Access Control (MAC) and Physical Layer Specifications
- IEEE 802.14: Standard Protocol for Cable-TV Based Broadband Communication Network

Conformance test methodology

An additional standards series, identified by the number 1802, has been established to identify the conformance test methodology documents for the 802 family of standards. Thus the conformance test documents for 802.3 are numbered 1802.3, the conformance test documents for 802.5 will be 1802.5, and so on. Similarly, ISO will use 18802 to number conformance test standards for 8802 standards.

IEEE Std 802.9c-1995

This supplement provides the Managed Object Conformance Statement (MOCS) proforma pertaining to ISLAN4-T, which uses 4.096 Mbit/s Physical Layer transport; and ISLAN20-T, which uses 20.48 Mbit/s Physical Layer transport; as specified in IEEE Std 802.9-1994. This proforma provides a set of tables that identifies both mandatory and optional information elements applicable to products that are conformant to IEEE Std 802.9-1994.

Standardization of ISLAN16-T (IEEE Std 802.9a-1995) and ISLANAU-AU, which specifies the AU-to-AU interworking (IEEE P802.9b) is in progress at this time; therefore, the specification of MOCS for ISLAN16-T and ISLANAU-AU is not included in this supplement.

In the 802.9 family, the following standards have been published:

- IEEE Std 802.9-1994: IEEE Standards for Local Area Networks: Integrated Services (IS) LAN Interface at the Medium Access Control (MAC) and Physical (PHY) Layers
- IEEE Std 802.9a-1995: IEEE Standards for Local Area Networks: Supplement to Integrated Services (IS) LAN Interface at the Medium Access Control (MAC) and Physical (PHY) Layers: Specification of ISLAN16-T.
- IEEE Std 802.9d-1995 IEEE Standards for Local Area Networks: Supplement to Integrated Services (IS) LAN Interface at the Medium Access Control (MAC) and Physical (PHY) Layers: Protocol Implementation Conformance Statement (PICS) Proforma.

In addition, work is currently ongoing in the following areas:

- IEEE P802.9b² Functional specification for AU-to-AU interworking
- IEEE P802.9e ATM cell bearer mode for IEEE 802.9 integrated services terminal equipment
- IEEE P802.9f Remote terminal line power for IEEE 802.9 integrated services terminal equipment

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²Numbers preceded by P are IEEE authorized standards projects that were not approved by the IEEE Standards Board at the time this publication went to press. For information about obtaining drafts, contact the IEEE.

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