

IEEE Standard for Media Management Systems (MMS) Session Security, Authentication, Initialization Protocol (SSAIP)

Sponsor

**Storage Standards Committee
of the
IEEE Computer Society**

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IEEE-SA Standards Board

Abstract: The syntax and semantics of the protocol messages that pass between the MMS client or MMS module and the MM are described. Since this protocol is only used in the context of the MMS, this standard cannot be understood without a thorough understanding of its architecture as described in IEEE Std 1244.1-2000.

Keywords: application independent, architecture, authentication, automated tape library, certificates, content neutral, cryptography, data model, device manager, distributed, drive manager, fully scalable, heterogeneous environment, information access, integrity, interoperability, interoperable, language neutral, library management, library manager, media management, media neutral, middleware, MIME, opensource, operating system independent, platform-independent, privacy, protocol based, removable media, robotic tape library, secure, secure hash, secure socket layer, security, session, session initiation, SHA-1, software, SSL, storage, storage management, storage system, system architecture, X.509

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Introduction

[This introduction is not part of the IEEE Std 1244.2-2000, IEEE Standard for Media Management System (MMS) Session Security, Authentication, Initialization Protocol (SSAIP).]

This is one of five MMS standards balloted together under IEEE Project 1244 for Storage System Design:

IEEE Std 1244.1-2000—IEEE Standard for Media Management System (MMS) Architecture

IEEE Std 1244.2-2000—IEEE Standard for Media Management System (MMS) Session Security, Authentication, Initialization Protocol (SSAIP)

IEEE Std 1244.3-2000—IEEE Standard for Media Management System (MMS) Media Management Protocol (MMP)

IEEE Std 1244.4-2000—IEEE Standard for Media Management System (MMS) Drive Management Protocol (DMP)

IEEE Std 1244.5-2000—IEEE Standard for Media Management System (MMS) Library Management Protocol (LMP)

This MMS Architecture standard (IEEE Std 1244.1-2000) is best understood in the context of the others by reading the first sections of the Architecture. These five standards are the first in a suite of ten approved projects for the IEEE MMS, and all ten might well have been a single standard. However, their separation was maintained to make conformance easier and individual evolution possible.

By permission of SGI™ this standard is based on the SGI™ OpenVault™ product, which SGI™ has released to the open source community. However, the IEEE Media Management System, developed by the IEEE Storage System Standards Working Group (SSSWG), is a significant refinement and extension of OpenVault™. The IEEE Mass Storage System Reference Model (MSSRM) influenced OpenVault™ design before work began on the MMS, and the present OpenVault™ reflects strong influence in its development by the IEEE SSSWG.

At the time this standard was completed, the Storage System Standards Working Group (SSSWG) had the following members:

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Joel N. Williams*

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Technical editors of these five standards are as follows:

IEEE Std 1244.1-2000—IEEE Standard for Media Management System (MMS) Architecture

—Geoffrey G. Peck (Primary Editor for Architecture)

—Curtis Anderson

—Murali Sathyanarayana (Primary Editor for the Data Model)

—Curtis Anderson, Joel N. Williams, T. Dixon Hutchinson, Alan Rollow

More information on OpenVault™ is available at <http://www.sswg.org>.

IEEE Std 1244.2-2000—IEEE Standard for Media Management System (MMS) Session Security, Authentication, Initialization Protocol (SSAIP)

—Bruce K. Haddon (Primary Editor, 2000–present)

—Jan Klier (Primary Editor, 1998-2000)

—Curtis Anderson, Joel N. Williams

IEEE STD 1244.3-2000—IEEE Standard for Media Management System (MMS) Media Management Protocol (MMP)

—Murali Sathyanarayana (Primary Editor)

—Curtis Anderson, Joel N. Williams, Dixon Hutchinson, Alan Rollow

IEEE Std 1244.4-2000—IEEE Standard for Media Management System (MMS) Drive Management Protocol (DMP)

—Joel N. Williams (Primary Editor)

—Murali Sathyanarayana

IEEE Std 1244.5-2000—IEEE Standard for Media Management System (MMS) Library Management Protocol (LMP)

—Joel N. Williams (Primary Editor)

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