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INTERNATIONAL STANDARD



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Information technology – iSCSI management API
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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland
Email: inmail@iec.ch
Web: www.iec.ch

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INFORMATION TECHNOLOGY –

iSCSI management API

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International Standard ISO/IEC 11989 was prepared by ANSI, was adopted, under the fast track procedure, by joint technical committee 1: Information technology and has been assigned to subcommittee 25: Interconnection of information technology equipment.

This International Standard has been approved by vote of the member bodies, and the voting results may be obtained from the address given on the second title page.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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INFORMATION TECHNOLOGY –

iSCSI management API

1 Scope

This International Standard specifies an Application Programming Interface (API) that provides interfaces to discover and manage iSCSI resources on a system. This International Standard is applicable to vendors who deliver drivers that provide iSCSI resources to a system.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document, including any amendments, applies.

The provisions of the referenced specifications other than ISO/IEC, IEC, ISO and ITU documents, as identified in this clause, are valid within the context of this International Standard. The reference to such a specification within this International Standard does not give it any further status within ISO/IEC. In particular, it does not give the referenced specification the status of an International Standard.

ISO/IEC 14776-453, *Information technology – Small Computer System Interface – Part 453: SCSI Primary Commands-3 (SPC-3)*

ISO/IEC 19501, *Unified Modeling Language (UML)*

ISO/IEC 8802-3:2000, *Information technology – Telecommunications and information exchange between systems – Local and metropolitan area networks – Specific requirements – Part 3: Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications*¹

IETF RFC 1994, *PPP Challenge Handshake Authentication Protocol (CHAP)*

IETF RFC 2945, *The SRP Authentication and Key Exchange System*

IETF RFC 3720, *Internet Small Computer Systems Interface (iSCSI)*

ANSI INCITS 386-2004, *Fibre Channel HBA API (FC-HBA)*

3 Document conventions

Each API's description is divided into seven sections. These sections are described below.

1. Synopsis

This section gives a brief description of what action the API performs.

2. Prototype

¹ IEEE 802.1AX, IEEE Standard for Information technology

This section gives a C prototype of the function. The prototypes show the following.

- The name of the API.
- The return type of the API.

3. Parameters

This section lists each parameter along with an explanation of what the parameter represents.

4. Typical Return Values

This section lists the Typical Return Values of the API with an explanation of why a particular return value would be returned. It is important to note that this list is **not** a comprehensive list of all of the possible return values. There are certain errors, e.g. [IMA_ERROR_INSUFFICIENT_MEMORY](#), that might be returned by any API. Return values such as these are not listed.

5. Remarks

This section contains comments about the API that may be useful to the reader. In particular, this section will contain extra information about the information returned by the API.

6. Support

This section states whether an API is mandatory to be supported, optional to be supported, or mandatory to be supported under certain conditions.

- If an API is mandatory to be supported a client can rely on the API functioning under all circumstances.
- If the API is optional to be supported then a client cannot rely on the API functioning.
- If the API is mandatory to be supported under certain conditions then a client can rely on the API functioning if the specified conditions are met. Otherwise a client should assume that the API is not supported.

7. See Also

This section lists other related APIs or related code examples that the reader might find useful.