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INFORMATION TECHNOLOGY – MULTIPATH MANAGEMENT (API)

FOREWORD

1) ISO (International Organization for Standardization) and IEC (International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards. Their preparation is entrusted to technical committees; any ISO and IEC member body interested in the subject dealt with may participate in this preparatory work. International governmental and non-governmental organizations liaising with ISO and IEC also participate in this preparation.

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International Standard ISO/IEC 11002 was prepared by the Information Technology Industry Council and was adopted under the fast track procedure by subcommittee 25: Interconnection of information technology equipment, of ISO/IEC joint technical committee 1: Information technology.

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.

INTRODUCTION

The Multipath Management application programming interface (API) provides management interfaces to standard capabilities defined in ISO/IEC 14776-453 (SPC-3) and common vendor-specific extensions to the standard capabilities. The intended audience is vendors that deliver drivers that provide these capabilities. This standard relates to SCSI multipathing features and excludes multipathing between interconnect devices (such as Fibre Channel switches) and transport specific multipathing (such as iSCSI multiple connections per session).

INFORMATION TECHNOLOGY – MULTIPATH MANAGEMENT API

1 Scope

This International Standard provides management interfaces to standard capabilities defined in ISO/IEC 14776-453 (SPC-3) and common vendor-specific extensions to the standard capabilities. The intended audience is vendors that deliver drivers that provide these capabilities. This standard relates to SCSI multipathing features and excludes multipathing between interconnect devices (such as Fibre Channel switches) and transport specific multipathing (such as iSCSI multiple connections per session).

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 or IEC. In particular, it does not give the referenced specification the status of an International Standard.

ISO/IEC 9899:1999, *Programming languages – C*

ISO/IEC 14165-133, *Information technology – Fibre channel – Part 133: Switch fabric-3 (FC-SW-3)*

ISO/IEC 14165-251, *Information technology – Fibre channel – Part 251: Framing and signalling (FC-FS)*

ISO/IEC 14776-115, *Information technology – Small computer system interface (SCSI) – Part 115: Parallel interface-5 (SPI-5)*

ISO/IEC 14776-150, *Information technology – Small computer system interface (SCSI) – Part 150: Serial attached SCSI (SAS)*

ISO/IEC 14776-413, *Information technology – Small computer system interface (SCSI) – Part 413: Architecture model-3 (SAM-3)*

ISO/IEC 14776-453, *Information technology – Small computer system interface (SCSI) – Part 453: Primary commands-3 (SPC-3)*

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

NOTE Copies of IETF standards such as RFC 3720 may be obtained through the Internet Engineering Task Force (IETF) at http://www.ietf.org.