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Australian Standard®

Information technology—3.81 mm wide magnetic tape cartridge for information interchange—Helical scan recording—DDS format

This Australian Standard was prepared by Committee IT/10, Information Systems—Equipment. It was approved on behalf of the Council of Standards Australia on 31 July 1992 and published on 19 October 1992.

The following interests are represented on Committee IT/10:

Australian Bankers Association
Australian Information Industry Association
Data media manufacturers
Interface developers
La Trobe University

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PREFACE

This Standard was prepared by the Standards Australia Committee on Information Systems—Equipment. It is identical with and has been reproduced from ISO/IEC 10777:1991 *Information technology—3.81 mm wide magnetic tape cartridge for information interchange—Helical scan recording—DDS format*.

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Section 1 - General

1 Scope

This International Standard specifies the physical and magnetic characteristics of such cartridges. It also specifies the quality of the recorded signal, the format and the recording method, thereby allowing data interchange by means of such magnetic tape cartridges.

2 Conformance

2.1 Magnetic tape cartridge

A tape cartridge shall be in conformance with this International Standard if it meets all mandatory requirements specified herein. A recorded tape shall be either a Single Data Space Tape or a Partitioned Tape.

2.2 Generating system

A system generating a magnetic tape cartridge for interchange shall be entitled to claim conformance with this International Standard if all recordings on the tape meet the mandatory requirements of this International Standard, and if either or both methods of appending and overwriting are implemented.

In addition a claim of conformance shall state which of the following optional features are implemented and which are not:

- the performing of a Read-After-Write check and the recording of any necessary repeated frames,
- the recording of multiple representations of the same Basic Group,
- the generation of ECC3 frames.

2.3 Receiving system

A system receiving a magnetic tape cartridge for interchange shall be entitled to claim conformance with this International Standard if it is able to handle any recording made on the tape according to this International Standard. In particular it shall be able:

- to recognize repeated frames and to make available to the user data and separator marks from only one of these frames,
- to recognize multiple representations of the same Basic Group and to make available to the user data and separator marks from only one of these representations,
- to update the System Log(s) if the Write-inhibit Hole state so permits,
- to recognize an ECC3 frame, and ignore it if the option specified below is not implemented.

In addition a claim of conformance shall state whether or not the system is capable of using ECC3 check bytes in a process of error correction.