TECHNICAL
REPORT

IEC
TR 62291

**Multimedia data storage –
Application program interface
for UDF based file systems**

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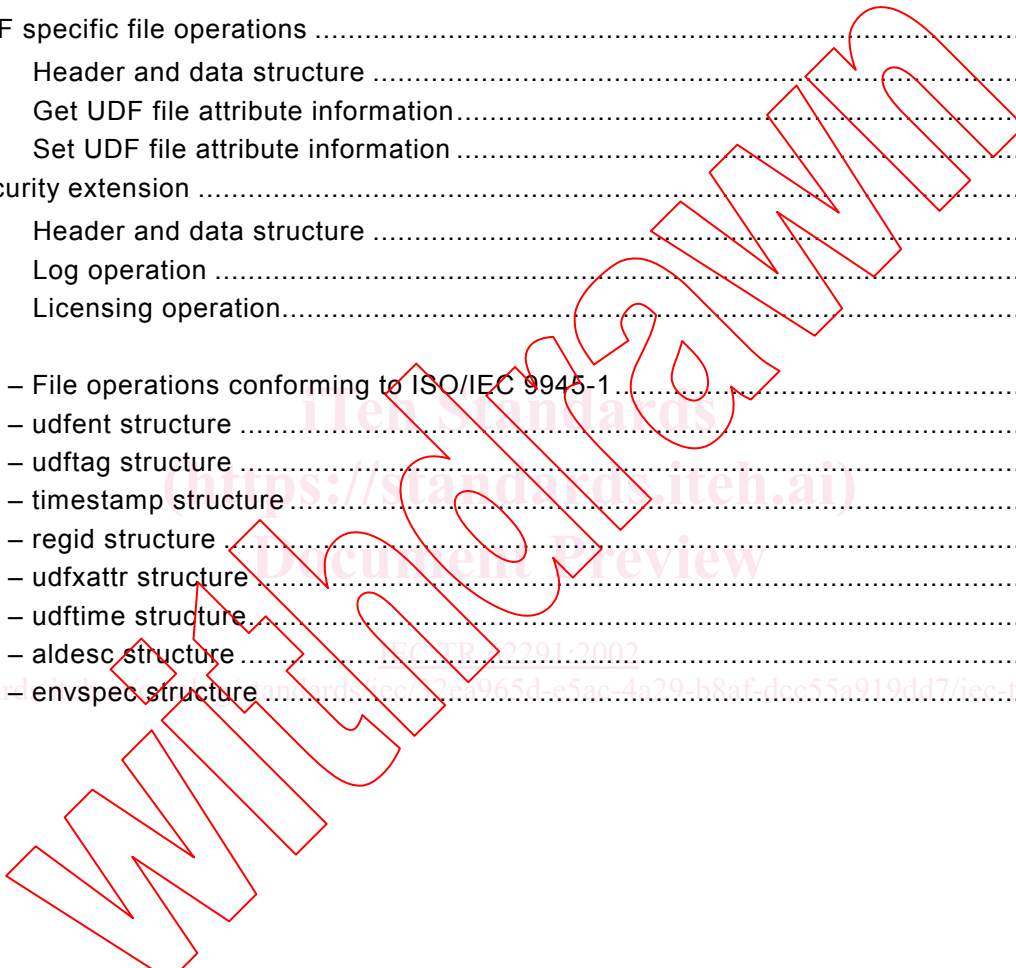Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION
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MULTIMEDIA DATA STORAGE –
APPLICATION PROGRAM INTERFACE
FOR UDF BASED FILE SYSTEMS

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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Technical reports do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful by the maintenance team.

IEC 62291, which is a technical report has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
100/399/CDV	100/455/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

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

This document, which is purely informative, is not to be regarded as an International Standard.

INTRODUCTION

Interchangeable storage media have been widely employed for information interchange; the following extensions to their media format should therefore be standardized:

a) additional facilities including security (access control, originality management, etc.);

b) volume and file structure supporting the facilities;

c) API (Application Program Interfaces) to the volume and file structure.

For a number of disc media, ISO/IEC JTC1/SC15 developed a generic standard of volume and file structure and it was actually used for rewritable, recordable and read-only DVD and recordable CD file systems with some subsetting by OSTA (Optical Storage Technology Association). The subsetting specification is called a UDF (Universal Disk Format).

Additional facilities and an API for the UDF have been discussed in OITDA (Optoelectronic Industry and Technology Development Association). OITDA drafted their specifications and submitted them to JISC (Japanese Industrial Standard Committee). METI (Ministry of Economy, Trade and Industry, Japan) approved them and JSA (Japanese Standards Association) published them in July 2001 as

a) JIS/TR X 0040:2001 Security Extension to Universal Disk Format (UDF);

b) JIS/TR X 0041:2001 Application Program Interface for UDF based File Systems.

IEC/TC100 National Committee of Japan then submitted the English version of JIS/TR X 0041:2001 to IEC/TC100.