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TECHNICAL REPORT



Audio, video and multimedia systems and equipment activities and considerations related to accessibility and usability

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT
ACTIVITIES AND CONSIDERATIONS RELATED TO
ACCESSIBILITY AND USABILITY**

FOREWORD

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IEC 62678, 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
100/1688/DTR	100/1737/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.

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

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

With an objective to research, review, and consider accessibility and usability and to start the project, a survey was designed and distributed to the IEC TC100 P-members to obtain information about the related issues, public policies, and activities. In April 2008, the survey results were reported to the AGS (Bangkok, Thailand) and in November, 2008 the first in-person meeting of the Project Team was held in Sao Paulo, Brazil.

Subsequently, four global teleconferences, numerous electronic mail exchanges, and use of the IEC on-line Collaboration Tools located at www.iec.ch occurred. The Project Team also held an in-person meeting in Tel Aviv, Israel in October 2009. As a result of these sessions, the Project Team produced this TR which attempts to explain the possible relevance of accessibility and usability to the IEC TC100 programme of work. Every aspect of this TR may or may not be appropriate for all IEC TC100 projects and / or participants. Likewise, this TR may or may not address considerations for product designers. However, this TR does provide information to assist the IEC TC100 standards experts in their accessibility and usability research, review, and consideration.

Clause 2 (Normative references) includes those documents referenced in the main body of this TR with the exception of Table 2. This document is numbered with other documents of the Project Team, 002-012, dated 03/31/10.

This TR extracts and applies the user needs published in the ISO/IEC TR 29138-1, Information Technology-Accessibility considerations for people with disabilities – Part 1: User needs summary, paraphrased and extracted with permission.

This TR contains four informative annexes:

- a) Annex A on the United Nations (UN) Convention on the Rights of Persons with Disabilities (paraphrased and extracted with permission),
- b) Annex B which comments on some IEC TC100 standards which contain accessibility considerations,
- c) Annex C on research projects in Europe.

Every effort was made to include resources that are publicly accessible.

AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT ACTIVITIES AND CONSIDERATIONS RELATED TO ACCESSIBILITY AND USABILITY

1 Scope

This Technical Report (TR) provides information on accessibility and usability terms, activities, completed and ongoing standards, technical reports, projects, and specifies user needs that may or may not apply to audio, video and multimedia systems and equipment. Comments about demographics and public policies are included. A checklist of accessibility and usability considerations is also included. Industry experts may or may not apply this information when they evaluate opportunities to integrate support for accessibility and usability in their work.

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.

ISO/IEC 25062:2006, *Software product quality requirements and evaluation (SQuaRE) – Common Industry Format (CIF) for usability test reports*

ISO/IEC TR 29138-1:2009, *Information technology – Accessibility considerations for people with disabilities – Part 1: User needs summary*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1

accessibility

degree to which a product (e.g., device, service, and environment) is accessible by as many people as possible

NOTE Accessibility can be viewed as the "ability to access" the functionality, and possible benefit, of some system or entity. Accessibility is often used to focus on people with disabilities and their right of access to entities, often through use of assistive technology. Several definitions of accessibility refer directly to access-based individual rights laws and regulations. Products or services designed to meet these regulations are often termed "Easy Access" or "Accessible". See: www.wikipedia.org

3.1.2

adaptive design

interoperability with assistive technology

NOTE See ISO/IEC Guide 71.

3.1.3

assistive technology

designates assistive, adaptive, and rehabilitative devices designed to enable use by people with disabilities or to enhance usability