PD ISO/IEC TR 20007:2014

BSI Standards Publication

Information technology — Cultural and linguistic interoperability — Definitions and relationship between symbols, icons, animated icons, pictograms, characters and glyphs

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee ICT/-/6, ICT Accessibility Co-ordination.

A list of organizations represented on this committee can be obtained on request to its secretary.

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ISBN 978 0 580 73363 5

ICS 35.180

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 May 2014.

Amendments issued since publication

Date	Text affected

PD ISO/IEC TR 20007:2014

TECHNICAL REPORT

ISO/IEC TR 20007

First edition
2014-05-01

Information technology — Cultural and linguistic interoperability — Definitions and relationship between symbols, icons, animated icons, pictograms, characters and glyphs

Technologies de l'information — Interopérabilité culturelle et linguistique — Définitions et relation entre symboles, icônes, icônes animées, pictogrammes, caractères et glyphes

Reference number
ISO/IEC TR 20007:2014(E)

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

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Foreword

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The committee responsible for this document is ISO/IEC/JTC 1, *Information technology*, Subcommittee SC 35, *User interfaces*.

Introduction

It seems that many people misunderstand the limits of standardizing each of the concepts covered in this Technical Report. As a case in point, ISO 7000 standardizes graphical symbols with precise shapes, where, for example, the proportions are strictly established, while ISO/IEC 10646 sometimes defines a coded character that maps an existing ISO 7000 symbol (which is practical for searching in technical documentation, for example). However, any single coded character can be represented by a variety of different glyphs, thus open to a variety of shapes and proportions, as long as symbols remain recognizable (a glyph is not standardized for a given coded character in this case, the coding element is standardized unambiguously alongside its name only). Some do not recognize that this is possible; nevertheless, both usages are internationally standardized and used with apparently contradicting requirements.

This Technical Report tries to harmonize the apparent limitations of use of the different concepts involved in the ISO and IEC context.

TECHNICAL REPORT **ISO/IEC TR 20007:2014(E)**

Information technology — Cultural and linguistic interoperability — Definitions and relationship between symbols, icons, animated icons, pictograms, characters and glyphs

1 Scope

This Technical Report clearly defines each term related to ISO and IEC symbology in a single document and harmonizes difference of use and possible correspondence between different objects covering these concepts.

2 Terms and definitions

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

2.1
character
member of a set of elements used for the organization, control, or representation of textual data

Note 1 to entry: A character may be represented by a sequence of one or several coded characters

[SOURCE: ISO/IEC 10646:—, 4.5]

2.2
code point
DEPRECATED: code position
value in the Universal Character Set codespace

[SOURCE: ISO/IEC 10646:—, 4.10]

Note 1 to entry: Values of the Universal Character Set (UCS) codespace are integers (numbers) ranging from 0 to 10FFFF (hexadecimal [base 16] numeric representation)

2.3
coded character
association between a character and a code point

[SOURCE: ISO/IEC 10646:—, 4.8]

2.4
font
collection of glyph images having the same basic design, e.g. Courier Bold Oblique

[SOURCE: ISO/IEC 9541-1:1991]

2.5
glyph
recognizable abstract graphic symbol which is independent of any specific design

[SOURCE: ISO/IEC 9541-1:1991]