



DPC: 24/30458446 DC

BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

Date: 20 November 2024

Origin: International

Latest date for receipt of comments: 13 January 2025

Project No. 2022/01522

Responsible committee: ICT/2 ICT Accessibility

Interested committees:

Title: Draft BS ISO/IEC 22121-1 Information technology - Virtual keyboards user interfaces. Part 1: General guidelines and recommendations.

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E-mail: admin.start@bsigroup.com

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/IEC DIS 22121-1

Information technology — Virtual keyboards user interfaces —

Part 1: General guidelines and recommendations

ICS: 35.180

ISO/IEC JTC 1/SC 35

Secretariat: **AFNOR**

Voting begins on:
2024-11-20

Voting terminates on:
2025-02-12

This document is circulated as received from the committee secretariat.

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Reference number
ISO/IEC DIS 22121-1:2024(en)

Full document details: 24/30458446 DC

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) and IEC (the 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 through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 35, *User interfaces*.

A list of all parts in the ISO/IEC 22121 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Virtual keyboards are spreading exponentially; with the rise of tactile mobile phones and devices, most users in the world will have to use such interfaces for communication, work or leisure.

Virtual keyboards are mainly designed for text input but can offer various additional functionalities such as navigation, text prediction or gaming.

Due to their virtual nature, they offer unlimited possibilities to interact through different ways. This generates sometimes some trouble on the user side because from one device to another, and even in the same device, user can be faced with different practices. But it is also a great opportunity for disabled users to get an adapted keyboard to their specific needs, and also for standard users in a specific situation to find adapted keyboard that fit well their situation.

ISO/IEC 22121 consists of the following parts, under the general title Information technology — Virtual keyboards user interfaces:

- ISO/IEC 22121-1, General guidelines and recommendations provides an overview of what virtual keyboards are. It describes virtual keyboards such as audio keyboards, visual on-screen keyboards and tactile keyboards.
- ISO/IEC 22121-2, On-screen keyboards with direct touch interface, provides guidelines on the design of standard on-screen tactile keyboards that are mainly focused on visualization: they are visually displayed, and keys shall be pointed at.
- ISO/IEC 22121-3, Virtual keyboards interactions, provides guidelines on the design of specific keyboards dedicated to specific interaction modes that don't constrain user to point at keys and that can offer a wide range of displays.

A list of all parts in the ISO 22121 series can be found on the ISO website.