
**Information technology — Gesture-
based interfaces across devices and
methods —**

Part 11:
**Single-point gestures for common
system actions**

*Technologies de l'information — Interfaces gestuelles entre dispositifs
et méthodes —*

Partie 11: Gestes à point unique pour actions courantes du système





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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. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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A list of all parts in the ISO/IEC 30113 series can be found on the ISO website.

Introduction

A single-point gesture is generated by a user with a pointer [which includes an input device (e.g. a mouse, a stylus, etc.) or a body part (e.g. a fingertip, a hand, etc.)] providing gesture actions using a single point of interest (POI). The gesture can be recognized and interpreted as a command which is understood by platforms, systems or applications running information and communications technology (ICT) systems. If the user feels that the gesture is natural and it is convenient and comfortable to generate, he/she can easily utilize the gesture for the applications on the ICT systems without spending an excessive amount of time learning and practising how to use the gesture.

A single-point gesture is used in several commercially-available ICT systems including personal computers, smart televisions, smart phones and video game consoles. There is a need for an International Standard to define the single-point gesture so that a user does not get confused if a gesture is associated with a different command for another application. Potential variety and inconsistency among single-point gestures might cause a serious usability problem in using applications on ICT systems.

This document presents descriptions of single-point gestures and their corresponding gesture commands for system level functions and common functions across applications on ICT systems. The system level functions include functions for selecting, initiating, terminating, resuming and restarting applications which are handled by operating systems or platforms. The common functions across applications are also identified. These functions include navigating menus, opening and closing objects, “help”, “undo”, “redo”, and so on.

The single-point gestures will harmonize with other gestures of multiple POIs. It is expected that users can execute applications more easily and without confusion by utilizing the single-point gestures. The gestures are to be performed by the users regardless of a specific recognition technique, a certain interaction method or a device. The focus of this document is on the users and their cognitive aspects.

Information technology — Gesture-based interfaces across devices and methods —

Part 11:

Single-point gestures for common system actions

1 Scope

This document defines single-point gestures for common system actions used in information and communication technology (ICT) systems. It specifies movements for clear and classified gestures recognized by the systems and applications. The single-point gestures are performed using an input device (e.g. a mouse, a stylus, etc.) or a body part (e.g. a fingertip, a hand, etc.). These single-point gestures are intended to operate in a consistent manner regardless of the system, platform, application or device.

NOTE ICT systems include, but are not limited to, digital televisions, set-top boxes, video game consoles, communication devices, Internet devices, entertainment devices and personal computers.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 30113-1:2015, *Information technology — User interface — Gesture-based interfaces across devices and methods — Part 1: Framework*