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

Part 62: Multi-point gestures for screen readers

Technologies de l'information — Interface fondée sur les gestes sur divers appareils et utilisant différentes méthodes —

Partie 62: Gestes multipoints pour les lecteurs d'écran

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Foreword

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Introduction

Screen readers are regarded as a default method of accessing ICT devices for people with visual impairments who are unable to see and understand the screens of these devices. The content on the screens, such as letters, words, numbers, punctuation, elements and so on, are spoken out loud by screen readers. Speakers or headphones connected to the ICT device become the main output components.

Multi-point gestures are used for screen readers of several commercially available ICT devices including smart phones, personal computers and so on. Potential variety and inconsistency among the multi-point gestures can cause serious accessibility problems for people with visually impairments. There is a strong need for international standards to define the multi-point gestures so that users with visual impairments do not get confused while they use ICT devices.

When gesture controls are used, the functions of screen readers include reading the item under the user's finger, pausing or resuming speech output, and announcing the location of the user's fingers on the screen, such as page numbers or rows. This document presents descriptions of multi-point gestures and the corresponding functions of the screen readers.

The document's multi-point gestures can harmonize with single-point gestures for the screen readers. It is expected that users can use the screen readers easily and without confusion by executing the multi-point gestures. The gestures are performed by the users regardless of a specific recognition technique, a certain interaction method or a device.

In Annex A, specific instances of multi-point gestures used in various screen readers are provided for comparison.

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

Part 62:
Multi-point gestures for screen readers

1 Scope

This document defines multi-point gestures for screen readers.

It specifies movements for clear and classified multi-point gestures recognized by the screen readers.

It describes multi-point gestures performed by multiple point of interest (POI) for the screen readers.

NOTE Multiple POI can be manipulated by using multiple objects such as fingertips, etc.

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 30113-12:2019, *Information technology — User interfaces — Gesture-based interfaces across devices and methods — Part 12: Multi-point gestures for common system actions*

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2) Withdrawn.