

First edition
2015-05-01

Information technology — User interface guidelines on menu navigation —

Part 2: Navigation with 4-direction devices

Technologies de l'information — Directives sur la navigation dans les menus d'interfaces utilisateurs —

Partie 2: Navigation avec des commandes quadridirectionnelles

Reference number
ISO/IEC 17549-2:2015(E)



© ISO/IEC 2015



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2015

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

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

This is a preview of "ISO/IEC 17549-2:2015". Click [here](#) to purchase the full version from the ANSI store.

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Conformity	1
4 Terms and definitions	1
5 Basic considerations	2
5.1 Common and general ergonomic aspects.....	2
5.2 Designing rendering (display screen, audio display, tactile display).....	3
5.2.1 Visual design of ladder menu.....	3
5.2.2 Visual designing of tile menu.....	3
6 Recommended practice on structure of and operation of ladder menus	4
6.1 Ladder structure.....	4
6.2 Recommended types of operation of the ladder menus for the hierarchy.....	5
7 Recommended practices on structure of and operation of tile menus	8
7.1 Structure of tile menus.....	8
7.2 Navigation for selecting tile menus.....	8
7.3 Recommended types of operation of the tile menus for the hierarchy.....	9
Annex A (informative) Advantages and disadvantages depending on navigation types	12
Annex B (normative) Recommendations according to typical cases	14
Bibliography	16

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.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

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

ISO/IEC 17549 consists of the following parts, under the general title *Information technology — User interface guidelines on menu navigation*:

— *Part 2: Navigation with 4-direction devices*

The following part is planned:

— *Part 1: Framework and convergence matters*

This is a preview of "ISO/IEC 17549-2:2015". [Click here to purchase the full version from the ANSI store.](#)

Introduction

Contemporary information equipment on which the display area is associated with 4-direction devices includes sophisticated and complex functionalities within one piece of such equipment.

The equipment needs to be operated in terms of changing default settings and to be customised for individual user. In such scenario, a 4-direction device is used to navigate menu shown in the display area, where the menu are normally structured.

This part of ISO/IEC 17549 intends to provide guidelines for design and use of menu structures, as well as recommended types of navigation with the 4-direction devices.

Note that each figure in this document, although it is not always “image”, includes the alternative text(s) in accordance with ISO/IEC/TS 20071-11. The alternative text(s) are information only.