INTERNATIONAL STANDARD

**ISO/IEC 30122-3**

First edition
2017-02

# Information technology — User interfaces — Voice commands —

## Part 3: Translation and localization

*Technologies de l'information — Interfaces utilisateurs — Commandes vocales —*

*Partie 3: Traduction et localisation*

Reference number
ISO/IEC 30122-3:2017(E)

© ISO/IEC 2017



**COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2017, Published in Switzerland

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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

# Contents

Page

**Foreword** ..... **iv**
**Introduction** ..... **v**
**1 Scope** ..... **1**
**2 Normative references** ..... **1**
**3 Terms and definitions** ..... **1**
**4 Conformity** ..... **1**
**5 Requirements and recommendations** ..... **1**
5.1 Localizing a voice command ..... 1
5.1.1 General ..... 1
5.1.2 Compatibility ..... 2
5.2 Deciding on words or phrases for a voice command ..... 2
5.2.1 General ..... 2
5.2.2 Stability of pronunciation ..... 2
5.2.3 Common use ..... 2
5.2.4 Social and cultural acceptability ..... 2
5.2.5 Accuracy of meaning ..... 2
5.2.6 Familiarity ..... 3
5.2.7 Consistency ..... 3
**Bibliography** ..... **4**

© ISO/IEC 2017 – All rights reserved

# 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 ISO documents 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 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 voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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

A list of all parts in the ISO/IEC 30122 series can be found on the ISO website.


© ISO/IEC 2017 – All rights reserved

# Introduction

Voice command is used for controlling ICT devices with the voice and in the language of the user. This technology is based on voice recognition, with some consideration for language tolerance (different accents or speech impairment while using a given language). It is also beneficial to the people who are operating the ICT device when/where they cannot use hands or fingers to operate it.

This document defines the principal standardized voice commands that will be commonly used in various ICT devices.

This document provides the issues concerning multilingualism of voice commands.

© ISO/IEC 2017 – All rights reserved

# Information technology — User interfaces — Voice commands —

# Part 3: Translation and localization

## 1 Scope

This document contains requirements and recommendations concerning multilingual voice commands and internationalization.

This document specifies the linguistic requirements and recommendations for translation and localization of spoken words or phrases for voice commands.

This document also includes how to determine the correct words or phrases for voice commands based on the various linguistic needs.

This document does not include technical issues.

## 2 Normative references

There are no normative references in this document.

## 3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

**3.1**
**local language**
language that is used in that local area or country

## 4 Conformity

The voice command is conformant to this document if it meets all the requirements of Clause 5.

## 5 Requirements and recommendations

### 5.1 Localizing a voice command

#### 5.1.1 General

When a voice command is proposed for the first time, its attributes such as Title or Phrases of voice command are described in ISO/IEC official languages (see ISO/IEC 30122-1). In order to use the voice command in the local areas where ISO/IEC official languages is not their local language, the attributes such as Title or Phrases of voice command are needed to be described in their local language. The local

© ISO/IEC 2017 – All rights reserved