



Technical Specification

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Information technology — User interface component accessibility —

Part 40: Augmentative and alternative communication (AAC)

*Technologies de l'information — Accessibilité du composant
interface utilisateur —*

Partie 40: Communication alternative et améliorée (CAA)

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Conventions	3
5 Introduction to AAC	4
5.1 AAC.....	4
5.2 The range of users of AAC.....	4
5.2.1 Introduction to users and their needs.....	4
5.2.2 Non-verbal users.....	4
5.2.3 Users not served by translators.....	5
5.2.4 Users communicating with non-verbal users and users not served by translators.....	6
5.2.5 All users.....	7
5.2.6 Collected major needs for AAC.....	8
5.3 Implementations.....	9
5.3.1 General.....	9
5.3.2 Text-to-speech systems.....	9
5.3.3 On-Screen keyboards.....	9
5.3.4 Automatic translators.....	10
5.3.5 Communication support boards.....	10
6 Basic guidance related to AAC	10
6.1 General.....	10
6.2 Focus.....	11
6.2.1 User needs rather than technologies.....	11
6.2.2 Serving those with communication difficulties.....	11
6.2.3 Serving all ages.....	11
6.2.4 Communicating.....	11
6.2.5 Graphic communications.....	11
6.2.6 Simple interactions.....	11
6.3 Basic functionality.....	11
6.3.1 Clearly distinguishable functionality.....	11
6.3.2 Intuitiveness.....	11
6.3.3 Availability without personalization.....	12
6.3.4 Personalization by users.....	12
6.3.5 Automatic support for different platforms.....	12
6.3.6 Minimal reliance on the Internet.....	12
7 Further guidance related to AAC	12
7.1 Design and use of pictograms, photos, and icons in AAC.....	12
7.2 A core set of pictograms for use in AAC.....	12
7.3 The use of various forms (written, auditory, and tactile) of text information in AAC.....	13
7.4 Translating AAC utterances to natural languages.....	13
7.5 Face-to-face AAC messaging.....	13
7.6 Incorporating remote messaging into AAC.....	13
7.7 Accessible narratives using AAC.....	14
7.8 Accessible creation of accessible narratives.....	14
7.9 Other AAC applications.....	14
Bibliography	15

Foreword

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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 20071 series can be found on the ISO and IEC websites.

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 and www.iec.ch/national-committees.

Introduction

Face-to-face communication (e.g. vocal speech and sign language) is the most basic and oldest means of communication between humans. Speech communication only works when the various persons involved share a common natural language. Today, there are over 7 000 natural languages in the world. Speech between two persons not sharing a common language only works if they have one or more translators to assist them.

Pictures are the oldest form of recording communications for other humans to receive at a later point in time. While some pictures can be challenging to understand, simple pictures that clearly represent what is being communicated are a good way of communicating between humans who can see the pictures.

Written text arrived later as a means of recording speech communications. However, there are over 3 000 natural languages that do not have a written form. Thus, written text only works for human-to-human communications where both humans share the ability to use the same written language. Text has recently taken a much more critical role in communications due to the printing of books and the use of text by computer systems. Some people who communicate face-to-face via text find it easier to communicate face-to-face with pictograms.

Pictograms, like early forms of writing in some natural languages, use simple pictures to communicate with persons who cannot speak or use the written form of some natural language.

Augmentative and alternative communication (AAC) makes use of pictograms and other alternate forms of communication to serve a variety of users not able to fully use the available spoken or written language.

NOTE While the most common use of AAC is to facilitate communication or at least one person with language difficulties, some AAC are also used for vocalization from text or pictograms by people with speech difficulties.

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Information technology — User interface component accessibility —

Part 40: Augmentative and alternative communication (AAC)

1 Scope

This document provides an introduction to and basic guidance on augmentative and alternative communication (AAC) in the information and communication technology (ICT) domain. It also provides common definitions and a framework for the development of further, more detailed guidance relating to aspects of these AACs.

This document recognizes that AAC can be delivered on various ICT devices and the importance of consistency for users across devices. It applies to AAC software and not the devices on which the software is used.

This document recognizes that AAC provides many users with a unique form of communication that is not necessarily based on any specific natural language.

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 terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 augmentative and alternative communication

AAC

assistive technology (3.2) that helps a person to communicate

Note 1 to entry: AAC can be used for face-to-face or remote communications between individuals or to provide communications with information technology (IT) applications.

Note 2 to entry: AAC can be used to express thoughts, needs, wants, questions, commands, and ideas.

Note 3 to entry: The AAC that this document deals with are computer-based.

3.2 assistive technology

AT

equipment, product system, hardware, software or service that is used to increase, maintain or improve capabilities of individuals

Note 1 to entry: Assistive technology is an umbrella term that is broader than assistive products.