
**Information technology — Accessibility
considerations for people with
disabilities —**

**Part 2:
Standards inventory**

*Technologies de l'information — Considérations d'accessibilité pour les
personnes infirmes —*

Partie 2: Inventaire des normes

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

In exceptional circumstances, the joint technical committee may propose the publication of a Technical Report of one of the following types:

- type 1, when the required support cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development or where for any other reason there is the future but not immediate possibility of an agreement on an International Standard;
- type 3, when the joint technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical Reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical Reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

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.

ISO/IEC TR 29138-2, which is a Technical Report of type 3, was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

ISO/IEC TR 29138 consists of the following parts, under the general title *Information technology — Accessibility considerations for people with disabilities*:

- *Part 1: User needs summary*
- *Part 2: Standards inventory*
- *Part 3: Guidance on user needs mapping*

Introduction

ISO/IEC JTC 1 believes that the work in the area of information communication technology (ICT) standardization for accessibility is a major undertaking, encompassing many global, regional and local interests. Additionally, there are significant standards efforts taking place in ISO, IEC, ITU and the national and regional standards bodies as well as various consortia/fora and user groups.

This Technical Report identifies sources of ICT accessibility guidance to support users with the widest range of capabilities. The number of people using ICT products and services, which combine hardware, software, and network technologies, is increasing, as is the variety of ICT products and services. Our everyday lives are filled with such products and services. Currently available ICT equipment and services, however, are not always accessible. Typically, the people most excluded by poor accessibility of products and services are those with disabilities and those with limitations due to age. However, they are not the only ones who experience difficulty in operating ICT products, such as personal computers (PCs). It is essential to improve ICT accessibility so that people with such special needs can have access to ICT products and services. The improvement of accessibility of products and services benefits all users, not only people with such special needs, leading to an inclusive e-society.

By providing appropriate ICT accessibility standards, the market of accessible ICT products and services will develop more efficiently and effectively. Standardization encourages organizations to address the needs of the people with disabilities and people with limitations due to age and triggers development of ICT products and services with built in accessibility.

Standardization bodies are starting to address disability and age-related issues and will, increasingly, develop and implement policies and programs in their standards development to include the needs of both people with disabilities and people with limitations due to age. Individuals have different access needs because of their different levels of capabilities and disabilities. Particularly people with multiple disabilities have distinct needs. The great variety and distinctiveness of individual differences make it difficult for individual standards to address all the needs which address the widest range of capabilities and disabilities.

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Information technology — Accessibility considerations for people with disabilities —

Part 2: Standards inventory

1 Scope

This part of ISO/IEC TR 29138 identifies a collection of documents (which it refers to as standards even though they encompass more than traditional ISO and ISO/IEC standards) that provides guidance on meeting the needs of people with disabilities. While its primary audience is standards developers, it can also be helpful for developers of information technology products and services, policy makers, procurers and for accessibility advocates to consider.

In addition to identifying user needs, this part of ISO/IEC TR 29138 identifies problems that people with disabilities experience with Information Technologies that lead to these user needs and identifies the relationship of these user needs with the accessibility factors for standards developers to consider found in ISO/IEC Guide 71: *Guidelines to address the needs of older persons and people with disabilities* when developing standards.

2 Terms and definitions

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

2.1

standard

identifiable document that contains some specific guidance

NOTE In the context of this part of ISO/IEC TR 29138, document standards include: all ISO and ISO/IEC standards, technical reports, publicly available specifications and all documents of other organizations that have a similar function to these ISO and ISO/IEC documents.

2.2

user

person who interacts with the product, service or environment

NOTE Adapted from ISO/IEC Guide 71 definition 3.4, which is adapted from ISO 9241-11:1998.

2.3

user accessibility need

user need

requirement of a product or its environment of use that improves accessibility to the system for users whose abilities are reduced through environmental factors, injury, disability, or natural degradation from aging

NOTE 1 Where there are many other types of user needs, this Technical Report only deals with user accessibility needs and thus uses the shorter form "user need" to refer to user accessibility needs.

NOTE 2 It might not be possible to meet all user needs.

3 Standards categories

There are many possible means of organizing the set of standards identified in this part of ISO/IEC TR 29138. The approach taken here is to categorize them in terms of their breadth of application. This organization does not provide mutually exclusive categories, but rather categories that can be added together to provide increasingly detailed guidance.

- a) **High-level standards** (clause 4.1) are the most generally applicable standards. In addition to collections of guidance from multiple categories, this category also includes standards providing general guidance and those providing guidance on design.

NOTE Because of their composition, standards listed in clause 4.1 can also be considered as belonging to all other categories.

- b) **Hardware/equipment-oriented standards** (clause 4.2) apply to all types of computer hardware and to most types of related equipment, including consumer electronics, communication equipment, and computers and related equipment designed for use in specialized environments.

NOTE 1 Additional standards applying to specialized environments are listed in clause 4.5.

NOTE 2 Additional standards applying to communications services are listed in clause 4.6.

- c) **Software/services-oriented standards** (clause 4.3) apply to software used to control computer hardware and equipment with embedded computer controls.

NOTE Additional standards applying to communications services are listed in clause 4.6.

- d) **User capabilities-oriented standards** (clause 4.4) apply to people regardless of the types of computer systems, equipment, and/or environmental elements that they interact with. These standards provide anthropomorphic guidance related to various populations of humans.

- e) **Environment-oriented standards** (clause 4.5) apply to specialized types of computer hardware, related equipment, and environmental design factors for various specific environments, including: public access systems, control centers, and remote / mobile computing.

- f) **Communications services-oriented standards** (clause 4.6) apply to the functionality of various types of computer and telecommunications communications. This category includes standards dealing with: communications protocols, telephone regulations and television regulations.

NOTE Standards on communications equipment (as opposed to communications services) listed in clause 4.2.

- g) **Other relevant standards** (clause 4.7) include packaging and other issues.

Good general design is a prerequisite to good accessible design. Thus standards, which may or may not have their own accessibility related guidance are also important in ensuring aspects of usability, which is the goal of accessibility when applied to populations of users with differing capabilities.

Within each category, standards are subdivided into two subcategories]:

- a) standards focused on accessibility
- b) standards partly related to accessibility

Within each subcategory, standards are ordered in the following manner:

- a) ISO and ISO/IEC standards ordered based on their ISO number
- b) Other global standards and sets of guidelines (where such exist, e.g. W3C and IEEE)
- c) Regional and national standards, guidelines and regulations

4 The standards

4.1 High-level standards

4.1.1 High-level standards focused on accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|-------------------|--|---|
| | ISO and ISO/IEC standards | | | |
| ISO Guide 71 | Guidelines for standards developers to address the needs of older persons and persons with disabilities | ISO | Guide published 2001 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=33987 |
| ISO 9241-20 | Ergonomics of human-system interaction — Part 20: Accessibility guidelines for information/communication technology (ICT) equipment and services | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40727 |
| ISO TR 22411 | Ergonomic data and guidelines for the application of ISO/IEC Guide 71 in standards related to products and services to address the needs of older persons and persons with disabilities | ISO TC159/WG2 | TR published 2008 now under redevelopment | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40933 |
| ISO/IEC 24756 | Information technology — Framework for specifying a common access profile (CAP) of needs and capabilities of users, systems, and their environments | ISO/IEC JTC1/SC35 | under development FDIS published 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41526 |
| | Regional and national standards, guidelines and regulations | | | |
| BS 7000-6 | Design management systems. Managing inclusive design. Guide | UK BSI | Published 2005 | http://www.bsi-global.com/en/Shop/PublicationDetail?pic=000000000030142267 |
| CWA 14661 | Guidelines to Standardisers of ICT products and services in the CEN ICT domain | EU CEN | Published 2003 | ftp://cenfto1.cenorm.be/PUBLIC/CWAs/e-Europe/DFACWA14661-00-2003-Feb.pdf |

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|-------------------|--|--------------------------------|----------------------------------|---|
| DIN TR 124 | Barrierefreie Gebrauchsgüte | Germany DIN | Published 2005 | http://www.beuth.de/beuth/owa/bwr_einstieg.artikelinfo?z_kontaktnummer=2006041477573539720060727020140&z_art_id=83849626 |
| JIS X 8341-1 | Guidelines for older persons and persons with disabilities — Information and communications equipment, software and services — Part 1: Common Guidelines | Japan JIS | Published 2004 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyod=JIS+X+8341-1%3A2004&dantaiCd=JIS&status=1&pageNo=0 |
| JIS Z 8071 | Guidelines for standards developers to address the needs of older persons and persons with disabilities | Japan JIS | Published 2003 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyod=JIS+Z+8071%3A2003&dantaiCd=JIS&status=1&pageNo=0 |
| Stanca Act | Provisions to support the access to information technologies for the disabled | Italy Federal Law | Published 2004 | http://www.pubbliaccesso.gov.it/english/index.htm |
| Korea Guidelines | Recommendation Guidelines to Improve Accessibility for the Disabled and the Elderly to the IT services/IT products | Korea MIC | Published 2002 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=RecommendationGuidelines to Improve Accessibility.pdf |
| Nordic Guidelines | Nordic Guidelines for Computer Accessibility | Nordic Council of Ministers | Published 1998 | http://trace.wisc.edu/docs/nordic_guidelines/nordic_guidelines.htm |
| US 508 | Section 508 of the US Rehabilitation Act | USA Federal Law | Published 1998 under revision | http://www.section508.gov/index.cfm?FuseAction=Content&ID=12 |

4.1.2 High-level standards partly related to accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|---------------|---|--|
| | ISO and ISO/IEC standards | | | |
| ISO 1503 | Ergonomic requirements for design on spatial orientation and directions of movements | ISO TC159/SC4 | IS published 2008 | http://www.iso.org/iso/catalogue/detail_ics.htm?csnumber=40302 |
| ISO 6385 | Ergonomic principles in the design of work systems | ISO TC159/SC1 | IS published 2004 under revision as 6385-2 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=35885 |
| ISO 6385-1 | Ergonomics — Part 1: Basic concepts, terms and definitions | ISO TC159/SC1 | under development CD published 2008 (will replace ISO 6385) | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42885 |
| ISO 9241-1 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 1: General introduction | ISO TC159/SC4 | IS published 1997 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=21922 http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=31246 |
| ISO 9241-2 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 2: Guidance on task requirements | ISO TC159/SC4 | IS published 1992 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16874 |
| ISO 9241-11 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 11: Guidance on usability | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16883 |
| ISO 9241-210 | Ergonomics of human system interaction — Part 210: Human-centred design for interactive systems | ISO TC159/SC4 | under development DIS published 2008 (will replace ISO 13407) | — |

| | | | | |
|---------------|--|------------------|---|---|
| ISO/IEC 12207 | Information technology — Software life cycle processes | ISO/IEC JTC1/SC7 | IS published 2008 | http://www.iso.org/iso/catalogue/catalogue_ics/catalogue_detail_ics.htm?csnumber=43447 |
| ISO 13407 | Human-centred design processes for interactive systems | ISO TC159/SC4 | IS published 1999 (under revision as 9241-210) | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=21197 |
| ISO/IEC 15288 | Systems engineering — System life cycle processes | ISO/IEC JTC1/SC7 | IS published 2008 | http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=43564 |
| ISO/IEC 15289 | Systems and software engineering — Content of systems and software life cycle process information products (Documentation) | ISO/IEC JTC1/SC7 | Published 2006 | http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=43790 |
| ISO TR 16982 | Ergonomics of human-system interaction — Usability methods supporting human-centred design | ISO TC159/SC4 | TR published 2002 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=31176 |
| ISO PAS 18152 | Ergonomics of human-system interaction — Specification for the process assessment of human-system issues | ISO TC159/SC4 | PAS published 2003 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=38596 |
| ISO TR 18529 | Ergonomics — Ergonomics of human-system interaction — Human-centred lifecycle process descriptions | ISO TC159/SC4 | TR published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=33499 |
| ISO/IEC 25060 | Software product Quality Requirements and Evaluation (SQuaRE) — Common Industry Format (CIF) for Usability — General Framework for Usability-related Information | ISO/IEC JTC1/SC7 | under development DTR published 2008 | http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=35786 |
| ISO/IEC 25062 | Software engineering — Software product Quality Requirements and Evaluation (SQuaRE) — Common Industry Format (CIF) for usability test reports | ISO/IEC JTC1/SC7 | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=43046 |

4.2 Hardware-oriented / equipment-oriented standards

4.2.1 Hardware-oriented / equipment-oriented standards focused on accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|--|-----------------------|---|---|
| | ISO and ISO/IEC standards | | | |
| ISO/IEC 10779 | Information Technology — Office equipment accessibility guidelines for elderly persons and persons with disabilities | ISO/IEC JTC1 SC 28 | IS published 2008 | http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=46086 |
| ISO/IEC 29136 | Information Technology — User Interfaces — Accessibility functions for personal computers | ISO/IEC JTC1 SC 35 | under development new work item 2007 | — |
| ISO/IEC 13066 | Information Technology — Interoperability with Assistive Technology (AT) | ISO/IEC JTC1 SC 35 | under development new work item 2008 | — |
| | Regional and national standards, guidelines and regulations | | | |
| ANSI C.63.19 | American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids | USA ANSI/IEEE | Published 2007 | http://webstore.ansi.org/ansidocstore/product.asp?sku=IEEE+Std+C63%2E19%2D2007 |
| JBMS-71 | Auditory signal | Japan JBMA | Published 2006 | http://www.jbma.or.jp/hyojun2/upload-v3/archive/JBMS-71.pdf |
| JIS S0011 | Guidelines for all people including elderly and people with disabilities — Marking of tactile dots on consumer products | Japan JIS | Published 2000 | http://www.webstore.jisa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsyolCd=JIS+S+0011%3A2000&dantaiCd=JIS&status=1&pageNo=0 |
| JIS S 0012 | Guidelines for all people including elderly and people with disabilities — Usability of consumer products | Japan JIS | Published 2000 | http://www.webstore.jisa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsyolCd=JIS+S+0012%3A2000&dantaiCd=JIS&status=1&pageNo=0 |

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|--------------|--|----------------|----------------|---|
| JIS S 0013 | Guidelines for the elderly and people with disabilities — Auditory signals on consumer products | Japan JIS | Published 2002 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsysolCd=JIS+S+0013%3A2002&dantaiCd=JIS&status=1&pageNo=0 |
| JIS S 0014 | Guidelines for the elderly and people with disabilities — Auditory signals on consumer products — Sound pressure levels of signals for the elderly and in noisy conditions | Japan JIS | Published 2003 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsysolCd=JIS+S+0014%3A2003&dantaiCd=JIS&status=1&pageNo=0 |
| JIS X 8341-2 | Guidelines for older persons and persons with disabilities — Information and communications equipment, software and services — Part 2: Information processing equipment | Japan JIS | Published 2004 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsysolCd=JIS+X+8341-2%3A2004&dantaiCd=JIS&status=1&pageNo=0 |
| JIS X 8341-4 | Guidelines for older persons and persons with disabilities — Information and communications equipment, software and services — Part 4: Telecommunications equipment | Japan JIS | Published 2005 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsysolCd=JIS+X+8341-4%3A2005&dantaiCd=JIS&status=1&pageNo=0 |
| JIS X 8341-5 | Guidelines for older persons and persons with disabilities — Information and communications equipment, software and services — Part 5: Office equipment | Japan JIS | Published 2006 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsysolCd=JIS+X+8341-5%3A2006&dantaiCd=JIS&status=1&pageNo=0 |
| TIA 504-A | Telecommunications-Telephone Terminal Equipment-Magnetic Field and Acoustic Gain Requirements for Headset Telephones Intended for Use by the Hard of Hearing | USA TIA | Published 1998 | http://www.tiaonline.org/standards/catalog/details.cfm?document_id=1213 |
| UNE 139801 | Computer applications for people with disabilities. Computer accessibility requirements. Hardware. | Spain AENOR | Published 2003 | http://www.aenor.es/desarrollo/inicio/home/home.asp# |

4.2.2 Hardware-oriented / equipment-oriented standards partly related to accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|-------------------|--|---|
| | ISO and ISO/IEC standards | | | |
| ISO 7000 | Graphical symbols for use on equipment — Index and synopsis | ISO TC145/SC 3 | IS published 2004 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=35627 |
| ISO 9241-3 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 3: Visual display requirements | ISO TC159/SC4 | IS published 1992 under revision as 9241-300 to 308 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16875 |
| ISO 9241-4 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 4: Keyboard requirements | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16876 |
| ISO 9241-7 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 7: Requirements for display with reflections | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16879 |
| ISO 9241-8 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 8: Requirements for displayed colours | ISO TC159/SC4 | IS published 1997 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16880 |
| ISO 9241-9 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 9: Requirements for non-keyboard input devices | ISO TC159/SC4 | IS published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=30030 |
| ISO 9241-300 | Ergonomics of human-system interaction — Part 300: Introduction to electronic visual display requirements | ISO TC159/SC4 | IS published 2007 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40096 |
| ISO 9241-302 | Ergonomics of human-system interaction — Part 302: Terminology for electronic visual displays | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40097 |

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|-----------------|--|---------------|--|---|
| ISO 9241-303 | Ergonomics of human-system interaction — Part 303: Requirements for electronic visual displays | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40098 |
| ISO 9241-304 | Ergonomics of human-system interaction — Part 304: User performance test methods | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40099 |
| ISO 9241-305 | Ergonomics of human-system interaction — Part 305: Optical laboratory test methods for electronic visual displays | ISO TC159/SC4 | under development FDIS published 2007 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40100 |
| ISO 9241-306 | Ergonomics of human-system interaction — Part 306: Field assessment methods for electronic visual displays | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40101 |
| ISO 9241-307 | Ergonomics of human-system interaction — Part 307: Analysis and compliance test methods for electronic visual displays | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40102 |
| ISO TR 9241-307 | Ergonomics of human-system interaction — Part 308: Surface-conduction electron-emitter displays (SED) | ISO TC159/SC4 | TR published 2007 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=44843 |
| ISO 9241-400 | Ergonomics of human-system interaction — Part 400: Principles and requirements for physical input devices | ISO TC159/SC4 | IS published 2007 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=38896 |
| ISO 9241-410 | Ergonomics of human-system interaction — Part 410: Design criteria for physical input devices | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=38899 |
| ISO 9241-910 | Ergonomics of human-system interaction — Part 920: Framework for tactile and haptic interactions | ISO TC159/SC4 | under development working draft 2008 | — |
| ISO 9241-920 | Ergonomics of human-system interaction — Part 920: Guidance on tactile and haptic interactions | ISO TC159/SC4 | under development FDIS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42904 |

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|----------------|--|-------------------|---|---|
| ISO 9355-1 | Ergonomic requirements for the design of displays and control actuators — Part 1: Human interactions with displays and control actuators | ISO TC159/SC4 | IS published 1999 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=21919 |
| ISO 9355-2 | Ergonomic requirements for the design of displays and control actuators — Part 2: Displays | ISO TC159/SC4 | IS published 1999 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=21920 |
| ISO 9355-3 | Ergonomic requirements for the design of displays and control actuators — Part 3: Control actuators | ISO TC159/SC4 | IS published 2006 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40188 |
| ISO 9355-4 | Ergonomic requirements for the design of displays and control actuators — Part 4: Location and arrangement of displays and control actuators | ISO TC159/SC4 | Under development DIS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40199 |
| ISO/IEC 9995-1 | Information technology — Keyboard layouts for text and office systems — Part 1: General principles governing keyboard layouts | ISO/IEC JTC1/SC35 | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42981 |
| ISO/IEC 9995-2 | Information technology — Keyboard layouts for text and office systems — Part 2: Alphanumeric section | ISO/IEC JTC1/SC35 | IS published 2002 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=36042 |
| ISO/IEC 9995-3 | Information technology — Keyboard layouts for text and office systems — Part 3: Complementary layouts of the alphanumeric zone of the alphanumeric section | ISO/IEC JTC1/SC35 | IS published 2002 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=36043 |
| ISO/IEC 9995-4 | Information technology — Keyboard layouts for text and office systems — Part 4: Numeric section | ISO/IEC JTC1/SC35 | IS published 2002 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=36044 |
| ISO/IEC 9995-5 | Information technology — Keyboard layouts for text and office systems — Part 5: Editing section | ISO/IEC JTC1/SC35 | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42982 |
| ISO/IEC 9995-6 | Information technology — Keyboard layouts for text and office systems — Part 6: Function section | ISO/IEC JTC1/SC35 | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42983 |

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| ISO/IEC 9995-7 | Information technology — Keyboard layouts for text and office systems — Part 7: Symbols used to represent functions | ISO/IEC JTC1/SC35 | IS published 2002 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=36045 |
| ISO/IEC 9995-8 | Information technology — Keyboard layouts for text and office systems — Part 8: Allocation of letters to the keys of a numeric keypad | ISO/IEC JTC1/SC35 | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42984 |
| ISO/IEC 10741-1 | Information technology — User system interfaces — Dialogue interaction — Part 1: Cursor control for text editing | ISO/IEC JTC1/SC35 | IS published 1995 Amendment 1 published 1996 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=18832 http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=26768 |
| ISO/IEC 13818-1 | Information technology — Generic coding of moving pictures and associated audio information: Systems | ISO/IEC JTC1/SC29 | IS published 2007 Amendment 1 published 2007 Corrigenda 1 Published 2008 | http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=44169 http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=44170 http://www.iso.org/iso/catalogue/catalogue_tc/catalogue_detail.htm?csnumber=46284 |
| ISO/IEC 13251 | Collection of graphical symbols for office equipment | ISO/IEC JTC1/SC35 | IS published 2004 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=21486 |
| ISO 13406-1 | Ergonomic requirements for work with visual displays based on flat panels — Part 1: Introduction | ISO TC159/SC4 | IS published 1999 under revision as 9241-300 to 308 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=25671 |

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| ISO 13406-2 | Ergonomic requirements for work with visual displays based on flat panels — Part 2: Ergonomic requirements for flat panel displays | ISO TC159/SC4 | IS published 2001 under revision as 9241-300 to 308 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=25670 |
| ISO/IEC 14755 | Information technology — Input methods to enter characters from the repertoire of ISO/IEC 10646 with a keyboard or other input device | ISO/IEC JTC1/SC35 | IS published 1997 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=25491 |
| ISO/IEC 15411 | Information technology — Segmented keyboard layouts | ISO/IEC JTC1/SC35 | IS published 1999 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27654 |
| ISO/IEC 15412 | Information technology — Portable computer keyboard layouts | ISO/IEC JTC1/SC35 | IS published 1999 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27655 |
| ISO/IEC TR 15440 | Information technology — Future keyboards and other associated input devices and related entry methods | ISO/IEC JTC1/SC35 | TR published 2005 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40059 |
| ISO/IEC 15938-5 | Information technology — Multimedia content description interface — Part 5: Multimedia description schemes | ISO/IEC JTC1/SC29 | IS published 2003 Amendment 1 published 2004 Amendment 2 published 2005 Corrigenda 1 Published 2004 Amendment 3 published 2008 | http://www.iso.org/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=34232 http://www.iso.org/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=37570 http://www.iso.org/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=40393 http://www.iso.org/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=41343 http://www.iso.org/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=46385 |

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| ISO 20282-1 | Ease of operation of everyday products — Part 1: Context of use and user characteristics | ISO TC159/SC1 (now in SC4) | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=34122 |
| ISO TS 20282-2 | Ease of operation of everyday products — Part 2: Test method | ISO TC159/SC1 (now in SC4) | TS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=36452 |
| ISO/IEC 21000-7 | Information technology — Multimedia framework (MPEG-21) — Part 7: Digital Item Adaptation | ISO/IEC JTC1/SC29 | IS published 2007 | http://www.iso.org/iso/catalogue/catalogue.tl?catalogue_detail.htm?csnumber=46501 |
| ISO/IEC 24738 | Information technology — Icon symbols and functions for multimedia link attributes | ISO/IEC JTC1/SC35 | IS published 2006 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=38848 |
| ISO/IEC 24755 | Information technology — Screen icons and symbols for personal mobile communication devices | ISO/IEC JTC1/SC35 | IS published 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41525 |
| ISO/IEC 24757 | Information technology — Keyboard interaction model — Machine-readable keyboard description | ISO/IEC JTC1/SC35 | under development FDIS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41527 |
| ISO/IEC TR 24785 | Information Technology — Taxonomy of cultural and linguistic adaptability user requirements | ISO/IEC JTC1/SC35 | under development DTR published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41555 |
| | Other global standards and guidelines | | | |
| IEEE 1621 | IEEE Standard for User Interface Elements in Power Control of Electronic Devices Employed in Office/Consumer Environments | IEEE | Published 2004 | http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?tp=&isnumber=31207&arnumber=1453037&punumber=98663 |
| | Regional and national standards, guidelines and regulations | | | |
| BS 4822 | Specification for keyboard allocation of graphic characters for data processing | UK BSI | Published 1994 | http://www.bsi-global.com/en/Shop/Publication-Details?pid=000000000000116386 |

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|--------------|--|----------------|----------------|---|
| CSA Z243.200 | Canadian Keyboard Standard for English and French Languages | Canada CSA | Published 1992 | http://www.csa-intl.org/onlinestore/GetCatalogItemDetails.asp?mat=2003196&Parent=1277 |
| DIN 2137 | Text and office systems — Keyboards — German keyboard for data and text processing, as well as for typewriters, information on graphic characters or symbols | Germany DIN | Published 2003 | http://www.din.de/cmd?workflowname=dinSearch&languageid=de |
| INCITS 154 | Office Machines and Supplies — Alphphanumeric Machines — Keyboard Arrangement (formerly ANSI X3.154-1988 (R1999)) | USA INCITS | Published 1999 | http://webstore.ansi.org/ansidocstore/product.asp?sku=ANSI+INCITS+154%2D1988+%28R1999%29 |

4.3 Software-oriented standards

4.3.1 Software-oriented standards focused on accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|----------------------|--|---|
| | ISO and ISO/IEC standards | | | |
| ISO 9241-129 | Ergonomics of human-system interaction — Guidance on individualization | ISO TC159/SC4 | under development CD published 2008 | — |
| ISO 9241-171 | Ergonomics of human-system interaction — Guidance on software accessibility | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=39080 |
| ISO TS 16071 | Ergonomics of human-system interaction — Guidance on accessibility for human-computer interfaces | ISO TC159/SC4 | TS published 2003 Revised as 9231-171 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=30898 |
| ISO/IEC TR 19765 | Information technology — Survey of icons and symbols that provide access to functions and facilities to improve the use of information technology products by the elderly and persons with disabilities | ISO/IEC JTC1/SC35 | TR published 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=33903 |

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|--|--|-------------------|---|---|
| ISO/IEC TR 19766 | Information technology — Guidelines for the design of icons and symbols accessible to all users, including the elderly and persons with disabilities | ISO/IEC JTC1/SC35 | TR published 2007 under revision as 11581-10 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42128 |
| ISO/IEC 24786-1 | Information Technology — User Interfaces — Accessible User Interface for Accessibility Setting on Information Devices — Part 1: General and methods to start | ISO/IEC JTC1/SC35 | under development FCD published 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41556 |
| Other global standards and guidelines | | | | |
| ATAG 1.0 | Authoring Tool Accessibility Guidelines 1.0 | W3C WAI | Published 2000 under revision as ATAG 2.0 | http://www.w3.org/TR/ATAG10/ |
| ATAG 2.0 | Authoring Tool Accessibility Guidelines 2.0 | W3C WAI | under development | http://www.w3.org/TR/ATAG20/ |
| UAAG 1.0 | User Agent Accessibility Guidelines | W3C WAI | Published 2002 | http://www.w3.org/TR/JAAG10/ |
| WCAG 1.0 | Web Content Accessibility Guidelines 1.0 | W3C WAI | Published 1999 | http://www.w3.org/TR/WCAG10/ |
| WCAG 2.0 | Web Content Accessibility Guidelines 2.0 | W3C WAI | under development | http://www.w3.org/TR/WCAG20/ |
| Regional and national standards, guidelines and regulations | | | | |
| CWA 14835 | Guidelines for making information accessible through sign language on the web | EU CEN | 2003 | ftp://cenftp1.cenorm.be/PUBLIC/CWAs/e-Europe/DFA/cwa14835-00-2003-Sep.pdf |

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|-------------------------------|---|-----------------------|--|--|
| HFES 200.2 | HFES 200: Human Factors Engineering of Software User Interfaces — Part 2: Accessibility | USA HFES 200 | Published 2005 under ballot as ANSI/HFES 200 | http://www.hfes.org/Publications/ProductDetail.aspx?ProductId=63 |
| JIS X 8341-2 | Guidelines for older persons and persons with disabilities — Information and communications equipment, software and services — Part 2: Information processing equipment | Japan JIS | Published 2004 | http://www.webstore.jisa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyod=jis+X+8341-2%3A2004&dantaiCd=JIS&status=1&pageNo=0 |
| JIS X 8341-3 | Guidelines for older persons and persons with disabilities — information and communications equipment, software and services — Part 3: Web Content | Japan JIS | Published 2004 | http://www.webstore.jisa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyod=jis+X+8341-3%3A2004&dantaiCd=JIS&status=1&pageNo=0 |
| KICS.OT-10.0003 | Internet Web Contents Accessibility Guideline | Korea MIC | Published 2005 | http://www.iabf.or.kr/Lab/Kwcag/kwcag10.pdf |
| TTAS.KO-10.0213 | Software Accessibility Guidelines 1.0 | Korea TTA | Published 2006 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=TTAS.OT-10.0213.pdf |
| TTAS.OT-10.0073 | Korean User Agent Accessibility Guidelines 1.0 | Korea TTA | Published 2006 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=TTAS.OT-10.0073.pdf |
| TTAS.OT-10.0074 | Korean Authoring Tools Accessibility Guidelines 1.0 | Korea TTA | Published 2006 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=TTAS.OT-10.0074.pdf |
| UNE 139802 | Computer applications for people with disabilities. Computer accessibility requirements. Software | Spain AENOR | Published 2003 | http://www.aenor.es/desarrollo/inicio/home/home.asp# |
| 24 hour agency web guidelines | Guidelines for an accessible public administration | Swedish Government | Published 2006 | English: http://www.eutveckling.se/static/doc/swedish-guidelines-public-sector-websites.pdf Swedish: http://www.eutveckling.se/static/doc/vagledning-24-timmarswebben-2006-05.pdf |

4.3.2 Software-oriented standards partly related to accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|--|---------------|--------------------------|---|
| | ISO and ISO/IEC standards | | | |
| ISO 9241-10 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 10: Dialogue Principles | ISO TC159/SC4 | Replaced by ISO 9241-110 | — |
| ISO 9241-12 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 12: Presentation of information | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16884 |
| ISO 9241-13 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 13: User guidance | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16885 |
| ISO 9241-14 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 14: Menu dialogues | ISO TC159/SC4 | IS published 1997 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16886 |
| ISO 9241-15 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 15: Command dialogues | ISO TC159/SC4 | IS published 1997 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16887 |
| ISO 9241-16 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 16: Direct manipulation dialogues | ISO TC159/SC4 | IS published 1999 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16888 |
| ISO 9241-17 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 17: Form filling dialogues | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16889 |
| ISO 9241-110 | Ergonomics of human-system interaction — Part 110: Dialogue principles | ISO TC159/SC4 | IS published 2006 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=38009 |
| ISO 9241-151 | Ergonomics of human-system interaction — Part 151: Guidance on World Wide Web user interfaces | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=37031 |

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|--------------------|---|-------------------|--|---|
| ISO/IEC TR 11580 | Information technology — Framework for describing user interface objects, actions and attributes | ISO/IEC JTC1/SC35 | TR published 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42779 |
| ISO/IEC 11581-1 | Information technology — User system interfaces and symbols — Icon symbols and functions — Part 1: Icons — General | ISO/IEC JTC1/SC35 | IS published 2000 under revision as 11581-10 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=24267 |
| ISO/IEC TR 11581-1 | Information technology — User system interfaces and symbols — Icon symbols and functions — Part 1: Introduction to and overview of icon standards | ISO/IEC JTC1/SC35 | under development CD 2008 | http://www.iso.org/iso/catalogue/catalogue_ics/catalogue_detail_ics.htm?csnumber=46444 |
| ISO/IEC 11581-2 | Information technology — User system interfaces and symbols — Icon symbols and functions — Part 2: Object icons | ISO/IEC JTC1/SC35 | IS published 2000 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=24268 |
| ISO/IEC 11581-3 | Information technology — User system interfaces and symbols — Icon symbols and functions — Part 3: Pointer icons | ISO/IEC JTC1/SC35 | IS published 2000 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27721 |
| ISO/IEC 11581-5 | Information technology — User system interfaces and symbols — Icon symbols and functions — Part 5: Tool icons | ISO/IEC JTC1/SC35 | IS published 2004 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=40060 |
| ISO/IEC 11581-6 | Information technology — User system interfaces and symbols — Icon symbols and functions — Part 6: Action icons | ISO/IEC JTC1/SC35 | IS published 1999 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=24263 |
| ISO/IEC 11581-10 | ISO/IEC 11581 Information Technology — User Interface Icons — Part 10: Framework and general guidance | ISO/IEC JTC1/SC35 | under development CD published 2008 (combines 11581-1,19766) | http://www.iso.org/iso/catalogue/catalogue_ics/tc/catalogue_detail.htm?csnumber=46445 |
| ISO 14915-1 | Software ergonomics for multimedia user interfaces — Part 1: Design principles and framework | ISO TC159/SC4 | IS published 2002 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=25578 |

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|------------------|---|-------------------|--|---|
| ISO 14915-2 | Software ergonomics for multimedia user interfaces — Part 2: Multimedia navigation and control | ISO TC159/SC4 | IS published 2003 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=28583 |
| ISO 14915-3 | Software ergonomics for multimedia user interfaces — Part 3: Media selection and combination | ISO TC159/SC4 | IS published 2002 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=28584 |
| ISO/IEC 18035 | Information technology — Icon symbols and functions for controlling multimedia software applications | ISO/IEC JTC1/SC35 | IS published 2003 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=30820 |
| ISO/IEC 18036 | Information technology — Icon symbols and functions for World Wide Web browser toolbars | ISO/IEC JTC1/SC35 | IS published 2003 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=30821 |
| ISO/IEC TR 19764 | Information technology — Guidelines, methodology and reference criteria for cultural and linguistic adaptability in information technology products | ISO/IEC JTC1/SC35 | TR published 2005 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=35399 |
| ISO/IEC TR 24784 | Information Technology — Description of ISO/IEC 9995 issues regarding users needs and necessary innovations | ISO/IEC JTC1/SC35 | under development DTR published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41554 |
| | Regional and national standards, guidelines and regulations | | | |
| HFES 200.1 | HFES 200: Human Factors Engineering of Software User Interfaces — Part 1: Introduction | USA HFES 200 | Published 2005 under ballot as ANSI/HFES 200 | http://www.hfes.org//Publications/ProductDetail.aspx?ProductId=63 |
| HFES 200.3 | HFES 200: Human Factors Engineering of Software User Interfaces — Part 3: Interaction Techniques | USA HFES 200 | Published 2005 under ballot as ANSI/HFES 200 | http://www.hfes.org//Publications/ProductDetail.aspx?ProductId=63 |

4.4 User capabilities-oriented standards

4.4.1 User capabilities-oriented standards focused on accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|-------------------|--|---|
| | ISO and ISO/IEC standards | | | |
| ISO/IEC 24751-1 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 1: Framework and reference model | ISO/IEC JTC1/SC36 | under development FDIS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41521 |
| ISO/IEC 24751-2 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 2: "Access for all" personal needs and preferences for digital delivery | ISO/IEC JTC1/SC36 | under development FDIS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=43603 |
| ISO/IEC 24751-3 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 3: "Access for all" digital resource description | ISO/IEC JTC1/SC36 | under development FDIS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=43604 |
| ISO/IEC 24751-4 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 4: Access for all non-digital resource description | ISO/IEC JTC1/SC36 | under development new work item 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46165 |
| ISO/IEC 24751-5 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 5: Personal needs and preferences for non-digital resources | ISO/IEC JTC1/SC36 | under development new work item 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46166 |
| ISO/IEC 24751-6 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 6: Personal needs and preferences for description of events and places | ISO/IEC JTC1/SC36 | under development new work item 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46167 |
| ISO/IEC 24751-7 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 7: Description of events and places | ISO/IEC JTC1/SC36 | under development new work item 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46168 |

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|-----------------|---|-------------------|--|---|
| ISO/IEC 24751-8 | Information technology — Individualized adaptability and accessibility in e-learning, education and training — Part 8: Language accessibility and human interface equivalencies (HIEs) in e-learning applications | ISO/IEC JTC1/SC36 | under development CD published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46169 |
| | Other global standards and guidelines | | | |
| IMS | IMS AccessForAll Meta-data Overview | IMS | Published 2004 | http://www.imsglobal.org/accessibility/accmdv1p0/imsaccmd_oviewv1p0.html |
| | Regional and national standards, guidelines and regulations | | | |
| CSA B659-01 | Design for Aging | Canada CSA | Published 2001 | http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=2929 |
| JIS S 0011 | Guidelines for all people including elderly and people with disabilities — Marking of tactile dots on consumer products | Japan JIS | Published 2000 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsvold=JIS+S+0011%3A2000&dantaiCd=JIS&status=1&pageNo=0 |
| JIS S 0012 | Guidelines for all people including elderly and people with disabilities — Usability of consumer products | Japan JIS | Published 2000 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsvold=JIS+S+0012%3A2000&dantaiCd=JIS&status=1&pageNo=0 |
| JIS S 0013 | Guidelines for the elderly and people with disabilities — Auditory signals on consumer products | Japan JIS | Published 2002 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsvold=JIS+S+0013%3A2002&dantaiCd=JIS&status=1&pageNo=0 |
| JIS S 0031 | Guidelines for the elderly and people with disabilities — Visual signs and displays — Specification of age — related relative luminance and its use in assessment of light | Japan JIS | Published 2004 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsvold=JIS+S+0031%3A2004&dantaiCd=JIS&status=1&pageNo=0 |

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|------------|--|--------------|----------------|---|
| JIS S 0032 | Guidelines for the elderly and people with disabilities — Visual signs and displays — Estimation of minimum legible size for a Japanese single character | Japan JIS | Published 2003 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsvolCd=JIS+S+0032%3A2003&dantaiCd=JIS&status=1&pageNo=0 |
| JIS S 0033 | Guidelines for the elderly and people with disabilities — Visual signs and displays — A method for colour combinations based on categories of fundamental colours as a function of age | Japan JIS | Published 2006 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsvolCd=JIS+S+0033%3A2006&dantaiCd=JIS&status=1&pageNo=0 |

4.4.2 User capabilities-oriented standards partly related to accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|------------------|---|---|
| | ISO and ISO/IEC standards | | | |
| ISO 7250-1 | Basic human body measurements for technological design — Part 1: Body measurement definitions and landmarks | ISO TC159/SC3 | IS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=44152 |
| ISO TR 7250-2 | Basic human body measurements for technological design — Part 2: Statistical summaries of body measurements from individual ISO populations | ISO TC159/SC3 | under development new work item 2005 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41249 |
| ISO 10075 | Ergonomic principles related to mental work-load — General terms and definitions | ISO TC159/SC1 | IS published 1991 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=18045 |
| ISO 10075-2 | Ergonomic principles related to mental workload — Part 2: Design principles | ISO TC159/SC1 | IS published 1996 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=20264 |
| ISO 10075-3 | Ergonomic principles related to mental workload — Part 3: Principles and requirements concerning methods for measuring and assessing mental | ISO TC159/SC1 | IS published 2004 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27571 |

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|-------------|---|---------------|--|---|
| ISO 11226 | Ergonomics — Evaluation of static working postures | ISO TC159/SC3 | IS published 2000 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=25573 |
| ISO 11228-1 | Ergonomics — Manual handling — Part 1: Lifting and carrying | ISO TC159/SC3 | technical corrigendum published 2006 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=44143 |
| ISO 11228-2 | Ergonomics — Manual handling — Part 2: Pushing and pulling | ISO TC159/SC3 | IS published 2003 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=26520 |
| ISO 11228-3 | Ergonomics — Manual handling — Part 3: Handling of low loads at high frequency | ISO TC159/SC3 | IS published 2007 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=26521 |
| ISO 14738 | Safety of machinery — Anthropometric requirements for the design of workstations at machinery | ISO TC159/SC3 | IS published 2007 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=26522 |
| ISO 15534-1 | Ergonomic design for the safety of machinery — Part 1: Principles for determining the dimensions required for openings for whole-body access into machinery | ISO TC159/SC3 | IS published 2002 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27556 |
| ISO 15534-2 | Ergonomic design for the safety of machinery — Part 2: Principles for determining the dimensions required for access openings | ISO TC159/SC3 | 2nd technical corrigendum published 2005 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=41725 |
| ISO 15534-3 | Ergonomic design for the safety of machinery — Part 3: Anthropometric data | ISO TC159/SC3 | IS published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27559 |
| ISO 11228-1 | Ergonomics — Manual handling — Part 1: Lifting and carrying | ISO TC159/SC3 | IS published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=26263 |
| ISO 11228-2 | Ergonomics — Manual handling — Part 2: Pushing and pulling | ISO TC159/SC3 | IS published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=26264 |

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|-------------|---|---------------|-------------------|---|
| ISO 15536-1 | Ergonomics — Computer manikins and body templates — Part 1: General requirements | ISO TC159/SC3 | IS published 2005 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=27580 |
| ISO 15536-2 | Ergonomics — Computer manikins and body templates — Part 2: Verification of functions and validation of dimensions for computer manikin systems | ISO TC159/SC3 | IS published 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=34220 |

4.5 Environment-oriented standards

4.5.1 Environment-oriented standards focused on accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|---------------|---|---|
| | ISO and ISO/IEC standards | | | |
| ISO TS 14415 | Ergonomics of the thermal environment — Application of International Standards to people with special requirements | ISO TC159/SC5 | IS published 2005 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=39870 |
| ISO 24500 | Guidelines for all people, including elderly persons and persons with disabilities — Auditory signals on consumer products | ISO TC159/SC5 | under development CD published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46170 |
| ISO 24501 | Guidelines for all people including elderly persons and persons with disabilities — Auditory signals on consumer products — Sound pressure levels of signals for the elderly and in noisy conditions | ISO TC159/SC5 | under development CD published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46171 |
| ISO 24502 | Guidelines for all people including elderly persons and persons with disabilities -- Visual signs and displays -- Specification of age -related relative luminance and its use in assessment of light | ISO TC159/SC5 | under development new work item 2007 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=46172 |

| | Regional and national standards, guidelines and regulations | | | |
|-----------------|--|-----------------|------------------------------------|--|
| AS 3769 | Automatic teller machines: User access | Australia SA | Published 1990 Amended 1990 | http://www.saiglobal.com/shop/script/Detaiis.asp?DocN=stds000000835 http://www.saiglobal.com/shop/script/Detaiis.asp?DocN=amdm000405650 |
| CSA B651 | Accessible Design for the Built Environment | Canada CSA | Published 2004 | http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=1070 |
| CSA B651.1 | Barrier-Free Design for Automated Banking Machines | Canada CSA | Published 2001 | http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=2562 |
| CSA B651.2 | Accessible design for self-service interactive devices | Canada CSA | Published 2007 | http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=4493 |
| JIS S0014 | Guidelines for the elderly and people with disabilities — Auditory signals on consumer products — Sound pressure levels of signals for the elderly and in noisy conditions | Japan JIS | Published 2003 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyod=JIS+S+0014%3A2003&dantaiCd=JIS&status=1&pageNo=0 |
| JIS T 0901 | Guidelines of electronic guide system using audible signage for visually impaired persons | Japan JIS | Published 2005 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyod=JIS+T+0901%3A2005&dantaiCd=JIS&status=1&pageNo=0 |
| TTAS.KO-09.0040 | Automatic Teller Machine's Accessibility Guidelines 1.0 | Korea TTA | Published 2006 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=TTAS_KO-09_0040.pdf |
| TTAS.OT-09.0001 | Digital Talking Book Guidelines 1.0 | Korea TTA | Published 2006 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=TTAS_OT-09_0001.pdf |

4.5.2 Environment-oriented standards partly related to accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|--|---------------|---|--|
| | ISO and ISO/IEC standards | | | |
| ISO 9241-5 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 5: Workstation layout and postural requirements | ISO TC159/SC4 | IS published 1998 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16877 |
| ISO 9241-6 | Ergonomic requirements for office work with visual display terminals (VDTs) — Part 6: Guidance on the work environment | ISO TC159/SC4 | IS published 1999 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=16878 |
| ISO 11064-1 | Ergonomic design of control centres — Part 1: Principles for the design of control centres | ISO TC159/SC4 | IS published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=19042 |
| ISO 11064-2 | Ergonomic design of control centres — Part 2: Principles for the arrangement of control suites | ISO TC159/SC4 | IS published 2000 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=19043 |
| ISO 11064-3 | Ergonomic design of control centres — Part 3: Control room layout | ISO TC159/SC4 | IS published 1999 technical corrigendum published 2002 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=19044 http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=36577 |
| ISO 11064-4 | Ergonomic design of control centres — Part 4: Layout and dimensions of workstations | ISO TC159/SC4 | IS published 2004 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=19045 |
| ISO 11064-5 | Ergonomic design of control centres — Part 5: Displays and controls | ISO TC159/SC4 | IS published 2008 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=44691 |
| ISO 11064-6 | Ergonomic design of control centres — Part 6: Environmental requirements for control centres | ISO TC159/SC4 | IS published 2005 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=39713 |

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| ISO 11064-7 | Ergonomic design of control centres — Part 7: Principles for the evaluation of control centres | ISO TC159/SC4 | IS published 2006 | http://www.iso.ch/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=22470 |
| ISO/IEC 24752-1 | Information technology — User interfaces — Universal remote console — Part 1: Framework | ISO/IEC JTC1/SC35 | IS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42309 |
| ISO/IEC 24752-2 | Information technology — User interfaces — Universal remote console — Part 2: User Interface Socket Description | ISO/IEC JTC1/SC35 | IS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42310 |
| ISO/IEC 24752-3 | Information technology — User interfaces — Universal remote console — Part 3: Presentation Template | ISO/IEC JTC1/SC35 | IS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42311 |
| ISO/IEC 24752-4 | Information technology — User interfaces — Universal remote console — Part 4: Target Description | ISO/IEC JTC1/SC35 | IS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42312 |
| ISO/IEC 24752-5 | Information technology — User interfaces — Universal remote console — Part 5: Resource Description | ISO/IEC JTC1/SC35 | IS published 2008 | http://www.iso.org/iso/en/CatalogueDetailPage.CatalogueDetail?CSNUMBER=42313 |
| | Regional and national standards, guidelines and regulations | | | |
| TTAS.KO-07.0050 | The Standard for DTV Closed Caption System | Korea TTA | Published 2007 | http://www.iabf.or.kr/lib/common/download.asp?path=pds&file=TTAS.KO-07.0050.zip |
| EIA 608 | Recommended Practice for Line 21 Data Service (Analog Television Closed Captioning) | USA EIA | Published 1999 | http://www.itaonline.org/standards/catalog/details.cfm?document_id=913 |
| EIA 708 B | Digital Television (DTV) Closed Captioning | USA EIA | Published 1999 | http://www.itaonline.org/standards/catalog/details.cfm?document_id=1001 |
| HFES 200.4 | HFES 200: Human Factors Engineering of Software User Interfaces — Part 4: Voice Input / Output and Telephony | USA HFES 200 | Published 2005 under ballot as ANSI/HFES 200 | http://www.hfes.org/Publications/ProductDetail.aspx?Productid=63 |

4.6 Communications services-oriented standards

4.6.1 Communications services-oriented standards focused on accessibility

| Standard Identifier | Title | Organization | Status | Source |
|---------------------|---|--------------|----------------|---|
| | Other global standards and guidelines | | | |
| IETF RFC 3351 | User Requirements for the Session Initiation Protocol (SIP) in Support of Deaf, Hard of Hearing and Speech-impaired Individuals | IETF | Published 2002 | http://www.ietf.org/rfc/rfc3351.txt?number=3351 |
| ITU-T TACL | Telecommunications Accessibility Checklist | ITU-T | Published 2006 | http://www.itu.int/pub/T-TUT-FSTP-2006-TACL/en |
| ITU-T Rec. E.135 | Human Factors Aspects of Public Telecommunication Terminals for People with Disabilities | ITU-T | Published 1995 | http://www.itu.int/rec/T-REC-E.135/en |
| ITU-T Rec. F.790 | Telecommunications Accessibility Guidelines for Older Persons and Persons with Disabilities | ITU-T | Published 2007 | http://www.itu.int/rec/T-REC-F.790/en |
| ITU-T Rec. V.18 | Operational and Interworking Requirements for DCE:s Operating in the Text Telephone Mode | ITU-T | Published 2000 | http://www.itu.int/rec/T-REC-V.18-200011-I/en |
| | | | Amendment 2002 | http://www.itu.int/rec/T-REC-V.18-200211-IIAmd1/en |
| ITU-T Rec. V.151 | Procedures for end-to-end connection of analogue PSTN text telephones over an IP network utilizing text relay | ITU-T | Published 2006 | http://www.itu.int/rec/T-REC-V.151-200605-I/en |
| ITU-T Rec. F.703 | Multimedia conversational services | | Published 2000 | http://www.itu.int/rec/T-REC-F.703/en |
| ITU-T H. Sup. 1 | Video Quality for sign language and lip reading | ITU-T | Published 1999 | http://www.itu.int/rec/T-REC-H.Sup1/en |

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|-----------------|--|--|--------------------------------------|--|
| AS/ACIF S040 | Regional and national standards, guidelines and regulations Requirements for Customer Equipment for use with the Standard Telephone Service — Features for special needs | Australia Australian Communications Authority | Published 2001 | http://www.acif.org.au/data/page/3312/S040_2001.pdf |
| AS/NZS 4277 | Text telecommunications — User interface requirements — For Deaf people and people with hearing and speech disabilities | Australia SA | Published 1995 Amendment 1996 | http://www.onlinepublications.austroads.com.au/script/Details.asp?DocN=stas000012813 http://www.onlinepublications.austroads.com.au/script/Details.asp?DocN=amdm000650332 |
| CSA T510-95 | Performance and Compatibility Requirements for Telephone Sets With Loop Signaling | Canada CSA | Published 2003 | http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=203 |
| CSA T516 | Telecommunications — Telephone Terminal Equipment — Requirements for Pay Telephone Keypads and Function Keys with Particular Regard to Use by Persons with Disabilities | Canada CSA | Published 2002 | http://www.csa-intl.org/onlinestore/GetCatalogDrillDown.asp?Parent=3226 |
| ETSI ETR 333 | Text Telephony; Basic user requirements and recommendations | EU ETSI | Published 1998 | http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=6739 |
| ETSI SR 001 996 | An annotated bibliography of documents dealing with Human Factors and disability | EU ETSI | Published 2005 | http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=19759 |
| ETSI TR 101 806 | Guidelines for Telecommunication Relay Services for text and video | EU ETSI | Published 2000 | http://webapp.etsi.org/workprogram/Report_WorkItem.asp?WKI_ID=7796 |
| JIS X 8341-4 | Guidelines for older persons and persons with disabilities — Information and communications equipment, software and services — Part 4: Telecommunications equipment | Japan JIS | Published 2005 | http://www.webstore.isa.or.jp/webstore/Com/FlowControl.jsp?lang=en&bunsiyoj=d=JIS+X+8341-4%3A2005&dantaiCd=JIS&status=1&pageNo=009 |

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|--------------|--|---------------------------|----------------------------------|---|
| UNE 153010 | Subtitling for deaf and hard-of-hearing people. Subtitling by teletext | Spain AENOR | Published 2003 | http://www.aenor.es/desarrollo/inicio/home/home.asp# |
| UNE 153020 | Audio description for visually impaired people. Guidelines for audio description procedures and for the preparation of audio guides | Spain AENOR | Published 2005 | http://www.aenor.es/desarrollo/inicio/home/home.asp# |
| US 255 | Section 255 Telecommunications Access For People with Disabilities of the US Communications Act | USA Federal Law | Published 1996 under revision | http://www.fcc.gov/cgb/dro/section255.html |
| US Part 79.1 | 47 C.F.R. § 79.1 Closed Captioning Of Video Programming (relating to: Telecommunications Act, Section 713) | USA Federal Regulation | 2004 | http://www.fcc.gov/cgb/dro/caption.html |
| US Part 79.1 | 47 C.F.R. § 79.2 Accessibility of programming providing emergency information(relating to: Telecommunications Act, Section 713) | USA Federal Regulation | 2004 | http://www.fcc.gov/cgb/dro/emergency_info_regs.html |

4.6.2 Communications services-oriented standards partly related to accessibility

| Standard Identifier | Title | Organization | Status | Source |
|-----------------------------|---|--------------|---|---|
| | Other global standards and guidelines | | | |
| IETF sipping-transc-conf-03 | The Session Initiation Protocol (SIP) Conference Bridge Transcoding Model | IETF | under development draft published 2006 | http://www.ietf.org/rfc/rfc5370.txt |
| IETF RFC 2198 | Redundancy for RTP payloads | IETF | Published 1997 | http://www.ietf.org/rfc/rfc2198.txt?number=2198 |
| IETF RFC 2327 | SDP; Session Description Protocol | IETF | Published 1998 | http://www.ietf.org/rfc/rfc2327.txt?number=2327 |

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|---------------|---|------|----------------|---|
| IETF RFC 2793 | RTP Payload for Text Conversation | IETF | Published 2000 | http://www.ietf.org/rfc/rfc2793.txt?number=2793 |
| IETF RFC 2833 | RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals | IETF | Published 2000 | http://www.ietf.org/rfc/rfc2833.txt?number=2833 |
| IETF RFC 3261 | SIP; Session Initiation Protocol | IETF | Published 2002 | http://www.ietf.org/rfc/rfc3261.txt?number=3261 |
| IETF RFC 3550 | RTP: A Transport Protocol for Real-Time Applications | IETF | Published 2003 | http://www.ietf.org/rfc/rfc3550.txt?number=3550 |
| IETF RFC 3711 | SRTP; Secure Real Time Protocol | IETF | Published 2004 | http://www.ietf.org/rfc/rfc3711.txt?number=3711 |
| IETF RFC 3840 | Indicating User Agent Capabilities in the Session Initiation Protocol (SIP) | IETF | Published 2004 | http://www.ietf.org/rfc/rfc3840.txt?number=3840 |
| IETF RFC 3841 | Caller Preferences for the Session Initiation Protocol | IETF | Published 2004 | http://www.ietf.org/rfc/rfc3841.txt?number=3841 |
| IETF RFC 4102 | Registration of the text/red MIME Sub-Type | IETF | Published 2005 | http://www.ietf.org/rfc/rfc4102.txt?number=4102 |
| IETF RFC 4103 | RTP Payload for Text Conversation | IETF | Published 2005 | http://www.ietf.org/rfc/rfc4103.txt?number=4103 |
| IETF RFC 4351 | RTP Payload for Text Conversation interleaved in an audio stream | IETF | Published 2006 | http://www.ietf.org/rfc/rfc4351.txt?number=4351 |
| IETF RFC 4504 | SIP Telephony Device Requirements, Configuration and Data | IETF | Published 2006 | http://www.ietf.org/rfc/rfc4504.txt?number=4504 |
| IETF RFC 4566 | Session Description Protocol | IETF | Published 2006 | http://www.ietf.org/rfc/rfc4566.txt?number=4566 |
| IETF RFC 4733 | Definition of Events For Modem, FAX, and Text Telephony Signals | IETF | Published 2006 | http://www.ietf.org/rfc/rfc4734.txt?number=4734 |
| IETF RFC 5012 | Requirements for Emergency Context Resolution with Internet Technologies | IETF | Published 2008 | http://www.ietf.org/rfc/rfc5012.txt |

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|---------------------|--|-------|----------------|---|
| IETF RFC 5194 | Framework of requirements for real-time text conversation using SIP | IETF | Published 2007 | http://www.ietf.org/rfc/rfc5194.txt |
| ITU-T NGN | NGN Release 1 | ITU-T | Published 2005 | http://www.itu.int/ITU-T/ngn/release1.html |
| ITU-T Rec. F.700 | Framework Recommendation for multimedia services | ITU-T | Published 2000 | http://www.itu.int/rec/T-REC-F.700/en |
| ITU-T Rec. F.724 | Service description and requirements for videotelephony services over IP networks | ITU-T | Published 2005 | http://www.itu.int/rec/T-REC-F.724/en |
| ITU-T Rec. F.733 | Service description and requirements for multimedia conference services over IP networks | ITU-T | Published 2005 | http://www.itu.int/rec/T-REC-F.733/en |
| ITU-T Rec. F.742 | Service description and requirements for distance learning services | ITU-T | Published 2005 | http://www.itu.int/rec/T-REC-F.742/en |
| ITU-T Rec. H.224 | A real time control protocol for simplex applications using the H.221 LSD/HSD/MLP channels | ITU-T | Published 2005 | http://www.itu.int/rec/T-REC-H.224/en |
| ITU-T Rec. H.245 | Control protocol for multimedia communication | ITU-T | Published 2006 | http://www.itu.int/rec/T-REC-H.245/en |
| ITU-T Rec. H.248 | Gateway control protocol | ITU-T | Published 2000 | http://www.itu.int/rec/T-REC-H.248/en |
| ITU-T Rec. H.248.2 | Gateway control protocol: Facsimile, text conversation and call discrimination packages | ITU-T | Published 2005 | http://www.itu.int/rec/T-REC-H.248.2/en |
| ITU-T Rec. H.248.21 | Gateway control protocol: Semi-permanent connection handling package | ITU-T | Published 2004 | http://www.itu.int/rec/T-REC-H.248.21/en |
| ITU-T Rec. H.320 | Narrow-band visual telephone systems and terminal equipment | ITU-T | Published 2004 | http://www.itu.int/rec/T-REC-H.320/en |
| ITU-T Rec. H.323 | Packet-based multimedia communications systems | ITU-T | Published 2006 | http://www.itu.int/rec/T-REC-H.323/en |
| ITU-T Rec. H.324 | Terminal for low bit-rate multimedia communication | ITU-T | Published 2002 | http://www.itu.int/rec/T-REC-H.324/en |

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|-------------------------|--|-------|----------------|---|
| ITU-T Rec. T.134 | Text chat application entity | ITU-T | Published 1998 | http://www.itu.int/rec/T-REC-T.134/en |
| ITU-T Rec. T.140 | Protocol for multimedia application text conversation | ITU-T | Published 1998 | http://www.itu.int/rec/T-REC-T.140/en |
| ITU-T Rec. V.8 | Procedures for starting sessions of data transmission over the public switched telephone network | ITU-T | Published 2000 | http://www.itu.int/rec/T-REC-V.8/en |
| ITU-T Rec. V.8bis | Procedures for the identification and selection of common modes of operation between data circuit-terminating equipments (DCEs) and between data terminal equipments (DTEs) over the public switched telephone network and on leased point-to-point telephone-type circuits | ITU-T | Published 2000 | http://www.itu.int/rec/T-REC-V.8bis/en |
| ITU-T Rec. V.16 | A simultaneous voice plus data modem, operating at a voice plus data signalling rate of 4800 bit/s, with optional automatic switching to data-only signalling rates of up to 14 400 bit/s, for use on the General Switched Telephone Network and on leased point-to-point 2-wire telephone type circuits | ITU-T | Published 1996 | http://www.itu.int/rec/T-REC-V.16/en |
| ITU-T Rec. V.150.1 | Modem-over-IP networks: Procedures for the end-to-end connection of V-series DCEs | ITU-T | Published 2003 | http://www.itu.int/rec/T-REC-V.150.1/en |
| ITU-T Rec. V.152 | Procedures for supporting voice-band data over IP networks | ITU-T | Published 2005 | http://www.itu.int/rec/T-REC-V.152/en |
| ITU-T Rec. V.250 | Serial asynchronous automatic dialling and control | ITU-T | Published 2003 | http://www.itu.int/rec/T-REC-V.250/en |
| ITU-T Rec. Y.1541 | Network performance objectives for IP-based services | ITU-T | Published 2006 | http://www.itu.int/rec/T-REC-Y.1541/en |
| ITUT Rec. Y.2000SerSup1 | NGN Release 1 Scope | ITUT | Published 2006 | http://www.itu.int/rec/T-REC-Y-2000SerSup1-200607-P/fr |
| ITUT Rec. Y.2012 | NGN Release 1 Requirements | ITUT | Published 2006 | http://www.itu.int/rec/T-REC-Y.2012/en |