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Current IT Accessibility Standards Activities

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Documentation

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ISO/TC 159/SC 4/WG 5, ISO/TC 145 – IEC SC 3C JWG 11
and ETSI STF 286

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Overview

- IT Accessibility standards being developed at international, continental and national levels.
- Some co-ordination, e.g. European DATSCG
- Two forms of standard:
 - Dedicated accessibility standards.
 - Accessibility requirements/recommendations included within other standards.
- Accessibility guidelines available to standards developers, e.g. ISO/IEC Guide 71, JIS 8071 & CEN/CENELEC Guide 6, CWA 14661, etc.

ISO/IEC JTC 1/SC 7/WG 2

System software documentation

- ISO/IEC 18019:2004 (Guidelines for the design and preparation of user documentation for application software)
 - . Contains guidelines (4.2.6) and references to documentation accessibility.
- ISO/IEC 9127 (User documentation and cover information for consumer software packages)

ISO/IEC JTC 1/SC 35/WG 6

User interfaces for people with special needs...

- ISO/IEC TR 19765 (Survey of icons and symbols...the elderly and persons with disabilities)
 - . Contains 60 “harvested” icons & symbols.
 - . 1st CD ballot underway.
- ISO/IEC TR 19766 (Guidelines for the design of icons and symbols...the elderly and persons with disabilities).
- NP: Framework for establishing and evaluating accessibility in interactive systems.

ISO/IEC JTC 1/SC 35/WG 8

User interfaces for remote interactions

- ISO/IEC XXXXX (Universal Remote Console)
 - . NP introduced by US INCITS V2 group.
 - . WD underway.

ISO/TC 159/WG 2

Ergonomics for people with special requirements

- ISO TR 22411 (Ergonomic data and ergonomic guidelines for the application of ISO/IEC Guide 71)
 - 1st WD due March 2005

ISO/TC 159/SC 5/WG 1

Ergonomics of the thermal environment

- ISO TS 14415 (Ergonomics of the thermal environment - Application of International standards to the disabled, the aged and other handicapped persons).
 - 1st CD under development.
- Potential NP to develop a standard for people with special needs, covering lighting, vision, thermal and acoustics.
 - Possible new WG 6 (“People with special requirements”)?

ISO/TC 159/SC 4/WG 5

Software ergonomics and human-computer interaction

- ISO TS 16071:2003 (Guidance on accessibility for human-computer interfaces)
 - Developed from US HFES guidelines c. 2001.
- ISO 9241-171 (Guidance on software accessibility)
 - Revised version of ISO TS 16071:2003.
 - Currently contains 160 guidelines.
 - Being harmonised with HFES/ANSI 200.2.
 - Planned consistency with US Section 508 (primarily S/W)
 - Contains Requirements and Recommendations
 - Checklists in Annex
 - 1st CD ballot underway.
 - ISO & EN (European) publication planned 2006.

ISO/TC 159/SC 4/WG 5

Software ergonomics and HCI...continued

- ISO 9241-151 (Ergonomic design for WWW interfaces)
 - Will include some accessibility guidance, but will mainly refer users to ISO 9241-171 and WCAG WAI guidelines.
 - DIS ballot underway mid-February 2005?
 - NOTE: Development started as ISO 23973

ISO/TC 159/SC 4/WG 6

Human-centred design processes for interactive systems

- ISO 9241-20 (Accessibility guidelines - Information and communications equipment, software & services - Common Guidelines)
 - Based upon part 1 of Japanese national standard
 - WD in development.
 - 1st CD June 2005?

ISO/TC 159/SC 4/WG ?

Ergonomics of human-system interaction

- Proposed new project:
 - ISO 9241-XXX Guidance on haptic and tactile interactions.
 - Proposed by Canada
 - Re-use of 30+ guidelines submitted for ISO 9241-171?
 - NP Ballot underway (closes 11 June 2005)

ETSI (EC) Standards

- ETSI TR 102 068 (2002) Requirements for assistive technology devices in ICT.
- ETSI ES 202 076 (2002) Generic spoken command vocabulary for ICT devices and services.
- ETSI EG 202 048 (2002) Guidelines for the multi-modality of icons, symbols and pictograms.
- ETSI EG 202 116 (2002) Guidelines for ICT products and services: “Design for All”.
- ETSI ETR 334 (1996) The implications of human ageing for the design of telephone terminals.

ETSI (EC) Standards

- ETSI ETR 029 (1991) Recommendations for improving and adapting telecommunications terminals and services for people with impairments.
- ETSI EG 202 301 (2004) UCI: Using UCI to enhance communications for disabled, young and elderly people.
- ETSI TR 103 073 (2003) UCI: Improving communications for disabled, young and elderly people.
- ETSI ETR 345 (1997) Characteristics of telephone keypads and keyboards; Requirements of elderly and disabled people.

European (EN) Standards

- CWA 14835: 2003 – Guidelines for making information accessible through sign language on the web.
- CWA 13987: 2003 – Smart Card Systems - Interoperable Citizen Services - User Related Information (3 parts)

European Standards

- EN 1332 (1999) – Identification card systems – Man-machine interface:
 - . Part 1 - Design principles (+ Draft amendment: Annex containing symbols for 13 functions)
 - . Part 2 – Dimensions and location of tactile identifier for ID-1 cards.
 - . Part 3 – Key pads.
 - . Part 4 – Coding of user requirements for people with special needs.
 - . Part 5 – Tactile identification of applications-embossed symbols for the differentiation of applications of IDI cards.
 - . Part 6 – Provision for physical accessibility, including access for users and vehicle drivers to card reading devices (Draft TS)
- NOTE: ISO/IEC 14443 (4 parts) and 10536 address “ID cards - Contactless integrated circuit proximity cards” (ISO/IEC JTC 1/SC 17/WG 8)

New EC Activities

- ETSI STF 286: “Access symbols for use with video content and ICT Devices”
 - Symbols for: subtitling, signing, audio description, voice output and voice command.
 - 1st Meeting, Sophia Antipolis, 22nd February 2005.
 - Completion target: December 2006.
 - Potential ISO standard via “fast path” process.
- CEN/ISSS Workshop: “Specifications for a complete European certification scheme concerning the delivery of a quality mark for Web Content Accessibility” .
 - 1st Meeting Brussels, 29th March 2005.

National standards

Spain

- UNE 139801: 2003 - Accessibility requirements for computer platforms. Hardware
- UNE 139802: 2003 - Accessibility requirements for computer platforms. Software
- Web equivalent?

Germany

- DIN Technical Report 124: 2002 – Products in Design for All

National standards


Japan

- JIS 8071: 2003, Guidelines for standards developers to address the needs of older persons and persons with disabilities (Japanese version of ISO/IEC Guide 71 and CEN/CENELEC Guide 6).
- JIS 8341: 2004 part 1- Guidelines for older persons and persons with disabilities – Information communication equipment and services Part 1: Common guidelines.
- JIS 8341: 2004 part 2 - Guidelines for older persons and persons with disabilities - Information communication and services - Part 2: Information processing equipment.
- JIS 8341: 2004 part 3 - Guidelines for older persons and persons with disabilities - Information communication and services - Part 3: Web contents.
- JIS 8341: 2005 part 4 - Guidelines for older persons and persons with disabilities - Information communication and services - Part 4: Office equipment.
- JIS 8341: 2005 part 5 - Guidelines for older persons and persons with disabilities - Information communication and services - Part 5: Telecommunications equipment.


And finally..

Accessibility standards should be:

- Free or minimal cost to disability organisations.
- Complete and include all the information necessary on a specific subject (i.e. no normative references to information in other standards).
- Available in machine-readable form.
- Available in large print.
- Bound so that they open and stay flat, unaided.
- Printed on low reflectance paper.



Jubilee Sailing Trust Online Date: February 17, 2005



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THE LORD NELSON



The LORD NELSON

The LORD NELSON was the JST's first purpose built vessel. Constructed in 1986 she has taken over 19,000 people to sea, including over 7,500 people with disabilities and continues to do so. She runs all year round providing adventure sailing holidays for a great number of different people with varied abilities.

TENACIOUS



TENACIOUS

TENACIOUS was built and constructed by the Jubilee Sailing Trust at their own Jubilee Yard. She was built by a team of professional shipwrights and volunteers of mixed ability bringing the JST ethos of integration ashore. She is the largest wooden tall ship of her kind to be built in the UK in the last 100 years and her Maiden Voyage was 1 September 2000. Since then she has taken over 2,500 people to sea, of these over 1,000 have been physically disabled.