Welcome to the AccessibilityOnline Webinar Series



A collaborative program between the National Network of ADA Centers and the US Access Board

The Session is Scheduled to begin at 2:30pm Eastern Time
We will be testing sound quality periodically

The content and materials of this training are property of the US Access Board and the DBTAC - Great Lakes ADA Center and cannot be used and/or distributed without permission. This program is funded under award #H133A060097 from the U.S. Department of Education through the auspices of the National Institute on Disability and Rehabilitation Research (NIDRR) and an inter-agency agreement with the U.S. Access Board. For permission to use training content or obtain copies of materials used as part of this program please contact us by email at adata@adagreatlakes.org or toll free (877)232-1990 (V/TTY)

www.AccessibilityOnline.org

(877) 232-1990(V/TTY)



Webinar Features



- Closed captioning click CC icon (top of screen) or control-F8 and adjust your screen
- Questions type and submit questions in the Chat Area Text box or press control-M and enter text in the Chat Area
- Emotions/Hand-Raising Please do not use these features during this session as they can be distracting to other participants



Polling Features



This session will utilize the Polling Features of the Webinar Platform:

- A Choose A or Control +1 on your keyboard
- B Choose B or Control + 2 on your keyboard
- C Choose C or Control + 3 on your keyboard

3



Presenter U.S. Access Board



Tim Creagan



Session Agenda

- I. Barriers
- II. Background:

§508 of the Rehabilitation Act and §255 of the Telecommunications Act

- III. Why is this important?
- IV. The "Refresh" of Sections 508 & 255

UNITED STATES ACCESS BOARD

5

E&IT and Telecomm: "computers and phones"





Electronic and Information Technology
Accessibility Standards
Telecommunications Act Accessibility Guidelines



I. Barriers to People with Disabilities

7

Have you ever struggled to see

the characters on a screen?

Seeing

- Phones
 - Illuminated displays
 - High contrast controls
 - Large buttons
- Computers
 - Zoom display
 - High contrast display
 - Screen reader





UNITED STATES ACCESS BOARD

С

Hearing

- Phones
 - Hearing aid compatibility
 - Text capability
 - Vibrating alerts
- Computers
 - Video captions
 - Visual alerts





UNITED STATES ACCESS BOARD



Thinking, remembering

- Phones
 - Automatic redial
 - Voice activated dialing
- Computers
 - Alternate input modes
 - Screen reader



UNITED STATES ACCESS BOARD



II. Background

- §508 of the Rehabilitation Act and
- §255 of the Telecommunications Act

UNITED STATES ACCESS BOARD

13

Overview

- Telecommunications Act of 1996 47 U.S.C. §255
 - "Section 255"
- Section 508 of the Rehabilitation Act of 1973, as amended 29 U.S.C. § 794 (d)
 - "Section 508"



Section 255 of the Telecommunications Act

Overview

UNITED STATES ACCESS BOARD

15

§ 255 General Requirements

Manufacturers & service providers *must*:

- Provide equipment that is accessible
- Include representation from people with disabilities in the processes of Product Design, Development, and Evaluation



UNITED STATES ACCESS BOARD

Section 255 Standards

- Subpart A General
- Subpart B —General Requirements
- Subpart C —Requirements for Accessibility and Usability
- Subpart D —Requirements for Compatibility With Peripheral Devices and Specialized Customer Premises Equipment
- Appendix to Part 1193 Advisory Guidance

17

Poll Question:

Which of the telephones in the next picture do you think is more Accessible?

- A. The phone on the left (blue phone)
- B. The phone on the right (red phone)

UNITED STATES ACCESS BOARD

Cell Phone: Which is more Accessible?



19

Cell Phone: How Accessible?





Section 508 of the Rehabilitation Act

Overview

UNITED STATES ACCESS BOARD

21

§508 General Requirements:

Each Federal department and agency when procuring, maintaining, developing or using electronic and information technology, must ensure that:

Federal employees with disabilities, and members of the public with disabilities seeking information or services, have access to and use of information and data that is comparable to the access and use by persons who are not individuals with disabilities, unless...

Standard:

"Undue Burden"

UNITED STATES ACCESS BOARD

Who Benefits from § 508

- 1. People with disabilities who interact with federal agencies.
- 2. Federal employees with disabilities.
- 3. All people with disabilities, because accessible products for the federal market are also sold in the public marketplace.

UNITED STATES ACCESS BOARD

23

Section 508

- Subpart A General
- Subpart B Technical Standards
- Subpart C Functional Performance Criteria
- Subpart D Information,
 Documentation, and Support

UNITED STATES ACCESS BOARD

Subpart B — Technical Standards

- 1194.21 Software applications and operating systems.
- 1194.22 Web-based intranet and internet information and applications.
- 1194.23 Telecommunications products.
- 1194.24 Video and multimedia products.
- 1194.25 Self contained, closed products.
- 1194.26 Desktop and portable computers.

UNITED STATES ACCESS BOARD

25

26

Poll Question: What Technology is covered by §508?

- A. Computers, telephones and kiosks
- B. Cassette tapes, mimeograph machines and manual typewriters
- C. Glass thermometer, doorbell and desk lamp





Subpart C — Functional Performance Criteria

- At least one mode of operation and information retrieval that does
 not require:
- User vision
- Visual acuity greater than 20/70
- Hearing
- Limited Hearing
- User speech
- · Fine motor control

29

II. Accommodation v. Accessibility

- Particular
- Occurs "after the fact"
- §504
- "Person focused"
- "Civil Rights"

- Global
- "Built In"
- §508
- "Technology Focused"
- "Procurement"

30

UNITED STATES ACCESS BOARD



III. Why is this important?

UNITED STATES ACCESS BOARD

31

Modern Technology can be used by People with Disabilities

iPods and Podcasting



VoIP (Voice over Internet Protocol) Phones



UNITED STATES ACCESS BOARD

This is happening world wide

Other countries are watching U.S. design



UNITED STATES ACCESS BOARD

33

Convergence of Technology

Web applications and web-software

on the web versus on a desktop

wiki





■ Hardware, esp. mobile devices



Cell phone /w text messaging

UNITED STATES ACCESS BOARD

Use of AT in mainstream products

Speech input and output more common

- cell phones
- automobiles

Interactive text - IM - Real time Text -

API (Application Programming Interface) – address compatibility responses between AT and IT software (make products interoperate)

UNITED STATES ACCESS BOARD

35

Multi-touch and gesture interfaces

Touch interfaces on mobile devices

Whole gestures: spreading two fingers apart





UNITED STATES ACCESS BOARD

The "Refresh" of Section 508

The "Refresh" is an update of:

- Section 508 standards for electronic and information technology ("E&IT") (procured by Federal agencies)
- Section 255 guidelines for telecommunications products

UNITED STATES ACCESS BOARD

37

What has changed?

- Organization features, not "products"
- Advisory Notes added
- · Addresses current technology
- Definition of "content" what is covered?
- Referenced standards
- Harmonize with WCAG 2.0

Draft text

Chapter 1-508; Chapter 1 – 255

Chapter 2 Functional Performance Criteria

Chapter 3 Common Functionality

Chapter 4 Platforms, Applications and Interactive Content

Chapter 5 Electronic Documents

Chapter 6 Synchronized Media Content and Players

Chapter 7 Hardware Aspects of ICT

Chapter 8 Audio Output from Hardware

Chapter 9 Conversation Functionality and Controls

Chapter 10 ICT Support Documentation and ICT Support Services

UNITED STATES ACCESS BOARD

39

Chapter 1 – Section 508

Definition of:







"Information and Communications Technology" (ICT).







Chapter 1-508

Limited coverage of content:

"official communications by Federal agencies"

Coverage of other types of communications and electronic content such as "official communications" including social media (i.e., YouTube and Twitter)



UNITED STATES ACCESS BOARD

41

Provisions – Chapter 2: Functional Performance Criteria

201 General

202 Functional Performance Criteria:

202.2 Without Vision;

202.3 With Limited Vision

202.4 Without Perception of Color;

202.5 Without Hearing;

202.6 With Limited Hearing.

202.7 Without Speech;

202.8 With Limited Manipulation;

202.9 With Limited Reach and Strength;

202.10 With Physical Contact;

202.11 Minimize Photosensitive Seizure Triggers.

"ICT shall provide access to all functionality"

Chapter 2

With limited hearing (202.6)

Features to address:
 clarity,
 reduction of background noise,
 control of background noise



UNITED STATES ACCESS BOARD

43

Provisions – Chapter 9: Conversation Functionality and Controls 1/2

901 General

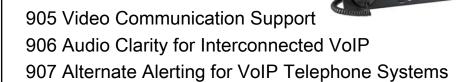
902 Real-Time Text Functionality

903 Voice Mail, Messaging, Auto-Attendant, Conferencing, and Interactive Voice Response (IVR)



Provisions – Chapter 9: Conversation Functionality and Controls 2/2

904 Information about Call Status and Functions



45

Next Steps in the Refresh process

- Analyze comments
- *Harmonization draft published*
- Develop proposed rule (NPRM)
- Develop regulatory assessment
- Submit to Office of Management and Budget
- Publish NPRM in the Federal Register
 - Public comment period
- Final rule

Where to find:

Current 508 Standards:

http://www.access-board.gov/sec508/standards.htm

· Draft Text from the Refresh:

http://www.access- board.gov/sec508/refresh/draft-rule.htm

 Public Comments on the draft text: http://www.regulations.gov/#!docketDetail;D =ATBCB-2010-0001

47

Questions? Comments? More information?

(800) 872-2253/TTY

www.access-board.gov

508@access-board.gov

Resources on §508 and §255

Government:

- US Access Board: www.access-board.gov
- FCC: www.FCC.gov

Federally Funded:

 ITTATC (Information Technology Technical Assistance and Training Center) www.ittatc.org

49

Questions?

 You may type and submit questions in the Chat Area Text Box or press Control-M and enter text in the Chat Area

Thank you for participating in today's webinar





Next scheduled session:

Accessible Retail Stores and Spaces
(October 6, 2011)

www.accessibilityonline.org (877) 232-1990 (v/TTY)