

The following Voluntary Product Accessibility information refers to the Apple iPhone. For more information on the accessibility features of the iPhone and to learn more about iPhone features, visit <http://www.apple.com/iphone> and <http://www.apple.com/accessibility>

**Summary Table
Voluntary Product Accessibility Template**

Criteria	Supporting Features	Remarks and explanation
Section 1194.21 Software applications and operating systems.	Not applicable	
Section 1194.22 Web-based intranet and internet information and applications.	Not applicable	
Section 1194.23 Telecommunications products.	Please refer to the attached VPAT	
Section 1194.24 Video and multimedia products.	Not applicable	
Section 1194.25 Self contained closed products.	Please refer to the attached VPAT	
Section 1194.26 Desktop and portable computers.	Not applicable	
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Section 1194.41 Information, documentation, and support.	Please refer to the attached VPAT	

Subpart B -- Technical Standards

Section 1194.23 Telecommunications products.

Criteria	Supporting Features	Remarks and explanations
(a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.	Supported with exception	iPhone supports TTY mode with the Apple iPhone TTY Adapter (sold separately). iPhone does not support intermixing speech and TTY.
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Supported	iPhone supports TTY mode with the Apple iPhone TTY Adapter (sold separately).
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Supported	Users can playback and manage voicemail when in TTY mode using Visual Voice Mail on iPhone or by accessing the wireless operator's voicemail system directly.
(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems	Supported	Users can browse email visually and in non-sequential order no response time limit. Users can also access the wireless operator's voicemail system

that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.		directly.
(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.	Supported with exception	iPhone does not support audible caller ID but can play distinctive ring-tones per individual. iPhone always displays caller ID information visually even when used in TTY mode.
(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.	Supported	
(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.	Not supported	
(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.	Not supported	
(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.	Not supported	iPhone is not M3 or T3 rated as defined under the United States Federal Communication Commission hearing aid compatibility guidelines. Testing is in progress.
(j) Products that transmit or conduct information or communication, shall pass through cross-manufacturer, non-proprietary, industry-standard codes, translation protocols, formats or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.	Supported with exception	iPhone supports wireless industry standards such as GSM/GPRS/EDGE, Bluetooth 2.0, and 802.11 b/g (Wi-Fi) for the transmission of voice and data. The iPhone features a standard 2.5mm audio headphone jack. The dock connector is proprietary but is the same used in the iPod and is licensed by Apple for use in third-party products. It is compatible with industry standard Universal Serial Bus (USB).
(k) Products which have mechanically operated controls or keys, shall comply with the following:		
(1) Controls and keys shall be tactilely discernible without activating the controls or keys.	Supported	
(2) Controls and keys shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2 N) maximum.	Supported	
(3) If key repeat is supported, the delay before repeat	Not supported	The delay until the volume buttons repeat when held is not adjustable.

shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.		
(4) The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	Supported with exception	In silent mode, pressing the sleep/wake button does not play a sound.

Section 1194.24 Video and multimedia products.

Criteria	Supporting Features	Remarks and explanations
(a) All analog television displays 13 inches and larger, and computer equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals.	Not Applicable	
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	Not Applicable	
(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.	Not Applicable	
(d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.	Not Applicable	
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Not Applicable	

Section 1194.25 Self-Contained, Closed Products.

Criteria	Supporting Features	Remarks and explanations
(a) Self contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive Technology to the product. Personal headsets for private listening are not Assistive Technology.	Supported with exception	TTY mode requires use of the Apple iPhone TTY adapter (sold separately).
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable	
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with Section 1194.23 (k) (1) through (4).	Not supported	The volume can be adjusted with mechanical buttons but most settings are adjustable only via the touchscreen.
(d) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not applicable	
(e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at anytime.	Supported	The iPhone uses an industry standard 2.5mm audio headphone jack.
(f) When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45 dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.	Not applicable	
(g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supported	
(h) When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.	Not applicable	
(i) Products shall be designed to avoid causing the	Supported	

screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.		
(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.	Not applicable	
(j)(2) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is 10 inches or less behind the reference plane, the height shall be 54 inches maximum and 15 inches minimum above the floor.	Not applicable	
(j)(3) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 inches maximum and 15 inches minimum above the floor.	Not applicable	
(j)(4) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.	Not applicable	

Section 1194.26 Desktop and portable computers.

Criteria	Supporting Features	Remarks and explanations
(a) All mechanically operated controls and keys shall comply with Section 1194.23 (k) (1) through (4).	Not applicable	
(b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with Section 1194.23 (k) (1) through (4).	Not applicable	
(c) When biometric forms of user identification or control are used, an alternative form of identification or	Not applicable	

activation, which does not require the user to possess particular biological characteristics, shall also be provided.		
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	Not applicable	

Subpart C -- Functional Performance Criteria

Section 1194.31 Functional performance criteria.

Criteria	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for assistive technology used by people who are blind or visually impaired shall be provided.	Supported with exception	Effective use of the iPhone requires a minimal level of visual acuity, motor skills, and an ability to operate a few mechanical buttons. Use of iPhone by someone who relies solely on audible and tactile input is not recommended.
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for assistive technology used by people who are visually impaired shall be provided.	Supported with exception	iPhone includes a very large, high-resolution color visual display and features zoom, large-fonts for viewing contacts and dialing, and the ability to set a large default font size for email. Users can also take advantage of the visual assistive technology features in Mac OS X when syncing information and content between iPhone and their computer using iTunes. For more information about Mac OS X accessibility features, see www.apple.com/accessibility
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for assistive technology used by people who are deaf or hard of hearing shall be provided.	Supported with exception	iPhone supports TTY mode with the addition of an Apple iPhone TTY Adapter (sold separately). iPhone also supports text messaging using SMS. Users can choose vibration alerts instead of ring tones, and incoming calls and message alerts are displayed visually on the bright LCD touchscreen. iPhone is not M3 or T3 rated as defined under the United States Federal Communication Commission hearing aid compatibility guidelines. Testing is in progress.
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	Supported with exception	iPhone provides a gain that can be adjusted to over 20 dB. iPhone also includes a built-in speakerphone and earphones (earbuds). iPhone is not M3 or T3 rated as defined under the United States Federal Communication Commission hearing aid compatibility guidelines. Testing is in progress.
(e) At least one mode of operation and information retrieval that does not require user speech shall be	Supported	

provided, or support for assistive technology used by people with disabilities shall be provided.		
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Supported with exception	Using the iPhone touchscreen requires a touch a bare finger or conductive device. Users with motor skills or other disabilities that prevent them from having direct skin contact with the touchscreen may require a conductive stylus. In some cases, using a stylus may result in erratic touchscreen behavior and may scratch or damage the touchscreen. Caution should be taken in choosing an appropriate stylus.

Subpart D -- Information, Documentation, and Support

Section 1194.41 Information, documentation, and support.

Criteria	Supporting Features	Remarks and explanations
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge.	Supported	Product documentation is provided electronically with the iPhone in PDF format and can be read on-screen or printed using a personal computer and suitable printing device (sold separately). Audio and Braille formats are expected to be available soon. Shipping and handling charges may apply. For more information about alternative formats, refer to http://www.apple.com/accessibility/ Support documentation is available on the Web in HTML at http://www.apple.com/support/
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Supported	Information about Apple product accessibility features is available on the Web in HTML format at http://www.apple.com/accessibility .
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	E-mail and telephone support are available.