

# Apple Accessibility Conformance Report

Based on Voluntary Product Accessibility Template® (VPAT®)

**Name of Product:** iOS 12

**Product Description:** The operating system for iPhone, iPad and iPod touch.

**Date:** September 17, 2018

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## Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports:** The functionality of the product has at least one method that meets the criteria without known defects or meets with equivalent facilitation.
- **Supports with Exceptions:** Some functionality of the product does not meet the criteria.
- **Does Not Support:** Majority of functionality of the product does not meet the criteria.
- **Not Applicable:** The criteria are not relevant to the product.
- **Not Evaluated:** The product has not been evaluated against the criteria. This can be used only with WCAG 2.0 Level AAA.

## WCAG 2.0 Report -

**Table 1: Conformance Criteria, Level A -**

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content: All non-text content that is presented to the user has a text alternative that serves the equivalent purpose, except in situations listed in WCAG 2.0 1.1.1.	Supports with exceptions	VoiceOver, the screen reader built into iOS, provides audio descriptions for non-text content and images presented to the user. However, some user-generated content images may or may not have text alternatives provided.
1.2.1 Audio-only and Video-only (Prerecorded): For prerecorded audio-only and prerecorded video-only media, the following are true, except when the audio or video is a media alternative for text and is clearly labeled as such: <ul style="list-style-type: none"><li>• Prerecorded Audio-only: An alternative for time-based media is provided that presents equivalent information for prerecorded audio-only content.</li><li>• Prerecorded Video-only: Either an alternative for time-based media or an audio track is provided that presents equivalent information for prerecorded video-only content.</li></ul>	Supports with exceptions	iOS supports the pass-through of closed-captioned video and video descriptions in industry-standard formats. It is up to content producers to follow media best practices for accessibility.
1.2.2 Captions (Prerecorded): Captions are provided for all prerecorded audio content in synchronized media, except when the media is a media alternative for text and is clearly labeled as such.	Supports with exceptions	iOS supports the pass-through of closed-captioned video and video descriptions in industry-standard formats. It is up to content producers to follow media best practices for accessibility.

<p>1.2.3 Audio Description or Media Alternative (Prerecorded): An alternative for time-based media or audio description of the prerecorded video content is provided for synchronized media, except when the media is a media alternative for text and is clearly labeled as such.</p>	<p>Supports with exceptions</p>	<p>iOS supports the pass-through of closed-captioned video and video descriptions in industry-standard formats. It is up to content producers to follow media best practices for accessibility.</p>
<p>1.3.1 Info and Relationships: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text.</p>	<p>Supports</p>	
<p>1.3.2 Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined.</p>	<p>Supports</p>	
<p>1.3.3 Sensory Characteristics: Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound.</p>	<p>Supports</p>	<p>iOS accessibility provides many alternatives for communicating Sensory information, including color filters for conveying color information, labeling of On/Off toggles, and increased contrast for distinguishing foreground and background colors.</p>
<p>1.4.1 Use of Color: Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p>	<p>Supports with exceptions</p>	<p>iOS uses color to convey information in On/Off labels, but provides the ability to enable labels in the Accessibility settings.</p> <p>There may be areas in individual apps, such as displaying events in Calendar, that do not provide another means distinguishing a visual element. But iOS provides the ability to customize color filters to support color blindness and other vision challenges.</p>
<p>1.4.2 Audio Control: If any audio on a Web page plays automatically for more than 3 seconds, either a mechanism is available to pause or stop the audio, or a mechanism is available to control audio volume independently from the overall system volume level.</p>	<p>Supports</p>	<p>iOS has volume controls that allows the user to turn off audio sound. iOS web based media controller allows users to stop and start playing audio/video content.</p>

<p>2.1.1 Keyboard: All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes, except where the underlying function requires input that depends on the path of the user's movement and not just the endpoints.</p>	<p>Supports</p>	
<p>2.1.2 No Keyboard Trap: If keyboard focus can be moved to a component of the page using a keyboard interface, then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away.</p>	<p>Supports</p>	<p>iOS provides one or more methods for closing dialogs, sheets, and pop-overs. The accessibility in iOS provides an additional escape gesture for non-compliant third party apps.</p>
<p>2.2.1 Timing Adjustable: For each time limit that is set by the content, at least one of the instances in WCAG 2.0 2.2.1 is true.</p>	<p>Supports with exceptions</p>	<p>While iOS does allow the user to choose the length of time to authenticate, the timing of Bluetooth pairing sessions is limited by the Bluetooth specification and Bluetooth devices.</p>

<p>2.2.2 Pause, Stop, Hide: For moving, blinking, scrolling, or auto-updating information, all of the following are true:</p> <ul style="list-style-type: none"> <li>• Moving, blinking, scrolling: For any moving, blinking or scrolling information that (1) starts automatically, (2) lasts more than five seconds, and (3) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it unless the movement, blinking, or scrolling is part of an activity where it is essential; and</li> <li>• Auto-updating: For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the auto-updating is part of an activity where it is essential.</li> </ul>	<p>Supports with exceptions</p>	<p>iOS minimizes UI that automatically scrolls, blinks, and moves. The Reduce Motion setting allows users to further disable or reduce additional types of movement. Third-party developers should follow <a href="#">iOS Human Interface Guidelines (HIG) for animation</a> and respect the user's Reduce Motion setting.</p>
<p>2.3.1 Three Flashes or Below Threshold: Web pages do not contain anything that flashes more than three times in any one second period, or the flash is below the general flash and red flash thresholds.</p>	<p>Supports</p>	
<p>2.4.1 Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages.</p>	<p>Supports</p>	
<p>2.4.2 Page Titled: Web pages have titles that describe topic or purpose.</p>	<p>Supports</p>	
<p>2.4.3 Focus Order: If a Web page can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability.</p>	<p>Supports</p>	

<p>2.4.4 Link Purpose (In Context): The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context, except where the purpose of the link would be ambiguous to users in general.</p>	<p>Supports</p>	<p>Text descriptions are provided for navigation elements such as links, tabs, and buttons throughout iOS. In addition, the Accessibility API provides a method for third-party developers to provide additional help information about these items.</p>
<p>3.1.1 Language of Page: The default human language of each Web page can be programmatically determined.</p>	<p>Supports</p>	
<p>3.2.1 On Focus: When any component receives focus, it does not initiate a change of context. (Level A)</p>	<p>Supports</p>	<p>iOS does not change context when an item receives focus. VoiceOver's gesture requires the user to perform a double tap to activate.</p>
<p>3.2.2 On Input: Changing the setting of any user interface component does not automatically cause a change of context unless the user has been advised of the behavior before using the component.</p>	<p>Supports</p>	<p>iOS Accessibility provides an option to speak hints about an item, and the results of an action, when the user navigates to that item.</p>
<p>3.3.1 Error Identification: If an input error is automatically detected, the item that is in error is identified and the error is described to the user in text.</p>	<p>Supports</p>	<p>iOS Accessibility honors errors and alerts, moves focus to the error/alert, and speaks the description of the error/alert.</p> <p>WebKit, the web browser engine used by Safari, also allows third-party developers to notify users of errors occurring on web pages.</p>
<p>3.3.2 Labels or Instructions: Labels or instructions are provided when content requires user input.</p>	<p>Supports</p>	<p>iOS Accessibility programmatically ties the description of the adjoining label to the description of the input control. If no visible label exists, the assistive technology can programmatically determine and speak the appropriate type of input.</p>

<p>4.1.1 Parsing: In content implemented using markup languages, elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique, except where the specifications allow these features.</p>	<p>Supports</p>	<p>In iOS, the UIKit software framework provides assistive technology with the following for all elements: boundaries, attributes, unique identifiers, and descriptions.</p>
<p>4.1.2 Name, Role, Value: For all user interface components (including but not limited to: form elements, links and components generated by scripts), the name and role can be programmatically determined; states, properties, and values that can be set by the user can be programmatically set; and notification of changes to these items is available to user agents, including assistive technologies.</p>	<p>Supports</p>	<p>In iOS, the UIKit software framework provides assistive technology with the following for all elements: boundaries, attributes, unique identifiers, and descriptions.</p>

**Table 2: Conformance Criteria, Level AA -**

Criteria	Conformance Level	Remarks and Explanations
<p>1.2.4 Captions (Live): Captions are provided for all live audio content in synchronized media.</p>	<p>Supports</p>	<p>iOS supports video media with closed-captioned audio and video text descriptions provided in industry standard formats. Third-party developers can also provide audio or video text descriptions in their apps using the AVFoundation framework.</p>
<p>1.2.5 Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media.</p>	<p>Supports</p>	<p>iOS supports the pass-through of closed-captioned video and video descriptions in industry-standard formats.</p>

<p>1.4.3 Contrast (Minimum): The visual presentation of text and images of text has a contrast ratio of at least 4.5:1, except for the following:</p> <ul style="list-style-type: none"> <li>• Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 3:1;</li> <li>• Incidental: Text or images of text that are part of an inactive user interface component, that are pure decoration, that are not visible to anyone, or that are part of a picture that contains significant other visual content, have no contrast requirement.</li> <li>• Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement.</li> </ul>	<p>Supports</p>	<p>The standard UI of iOS exceeds the contrast level of 4.5:1 and includes additional accessibility features to increase contrast in some areas by darkening colors.</p>
<p>1.4.4 Resize text: Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality.</p>	<p>Supports</p>	<p>Font Adjustments allow for Larger Dynamic Type resizing to a larger, easier-to-read size including over 200%.</p>
<p>1.4.5 Images of Text: If the technologies being used can achieve the visual presentation, text is used to convey information rather than images of text except for the following:</p> <ul style="list-style-type: none"> <li>• Customizable: The image of text can be visually customized to the user's requirements;</li> <li>• Essential: A particular presentation of text is essential to the information being conveyed.</li> </ul>	<p>Supports</p>	<p>iOS Accessibility programmatically provides descriptions for images of text. iOS will also attempt to use OCR technology to determine the text within an image for third party developers.</p>
<p>2.4.5 Multiple Ways: More than one way is available to locate a Web page within a set of Web pages except where the Web Page is the result of, or a step in, a process.</p>	<p>Supports</p>	
<p>2.4.6 Headings and Labels: Headings and labels describe topic or purpose.</p>	<p>Supports</p>	<p>Native applications that have nested information provide descriptive navigational structure (bread crumbs).</p>

<p>2.4.7 Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible.</p>	<p>Supports</p>	<p>In iOS, if a text field/area is activated, an insertion point is visible in the activated text field/area.</p>
<p>3.1.2 Language of Parts: The human language of each passage or phrase in the content can be programmatically determined except for proper names, technical terms, words of indeterminate language, and words or phrases that have become part of the vernacular of the immediately surrounding text.</p>	<p>Supports</p>	<p>iOS Accessibility can programmatically determine the languages within text areas, if the author of the content uses the appropriate language tag. Moreover, iOS Accessibility will switch to the appropriate speech synthesizer for that language.</p>
<p>3.2.3 Consistent Navigation: Navigational mechanisms that are repeated on multiple Web pages within a set of Web pages occur in the same relative order each time they are repeated, unless a change is initiated by the user.</p>	<p>Supports</p>	
<p>3.2.4 Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently.</p>	<p>Supports</p>	
<p>3.3.3 Error Suggestion: If an input error is automatically detected and suggestions for correction are known, then the suggestions are provided to the user, unless it would jeopardize the security or purpose of the content.</p>	<p>Supports</p>	<p>iOS provides error information, warnings, and suggestions, spoken when using iOS Accessibility.</p>

<p>3.3.4 Error Prevention (Legal, Financial, Data): For Web pages that cause legal commitments or financial transactions for the user to occur, that modify or delete user-controllable data in data storage systems, or that submit user test responses, at least one of the following is true:</p> <ul style="list-style-type: none"><li>• Reversible: Submissions are reversible.</li><li>• Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them.</li><li>• Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.</li></ul>	Supports	
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## 2017 Section 508 Report -

### Chapter 3: Functional Performance Criteria -

Criteria	Conformance Level	Remarks and Explanations
<p>302.1 Without Vision. Where a visual mode of operation is provided, ICT shall provide at least one mode of operation that does not require user vision.</p>	<p>Supports</p>	<p>iOS includes a built-in screen reader called VoiceOver that enables it to be used by those who are blind or visually impaired. Also, VoiceOver can be controlled via key commands entered on a standard Bluetooth keyboard.</p> <p>VoiceOver is available in 35 languages, and Voice Control is available in 24 languages. Siri on iOS is available in over 35 countries. For more information about iOS accessibility features, see <a href="http://www.apple.com/accessibility/ios/">www.apple.com/accessibility/ios/</a></p> <p>iOS supports more than 70 Bluetooth wireless Braille displays (sold separately) and Braille tables for more than 25 international languages. Some Braille displays provide input buttons that can be used in addition to iOS on screen controls.</p> <p>Siri supports natural-language voice commands to send messages, schedule meetings, place phone calls, control music playback, input text, speak out content on the screen, check the weather, and more. Siri can talk back to you and read text messages, acknowledge voice commands, respond to questions, and more. Siri also supports typing to interact with Siri. Use the onscreen keyboard to ask questions, set reminders, schedule meetings, and other everyday tasks.</p>

<p>302.2 With Limited Vision. Where a visual mode of operation is provided, ICT shall provide at least one mode of operation that enables users to make use of limited vision.</p>	<p>Supports</p>	<p>iOS includes a feature called Zoom, which can magnify the screen up to 1,500%, includes multiple Zoom modes and it works with VoiceOver so you can better see and hear what's on your screen.</p> <p>iOS offers Dynamic Type which offers an option for larger text for people with 20/70 vision.</p> <p>iOS also supports Speak Screen where the content of a page can be read back to you, and highlight what is being read by word, sentence or both.</p> <p>iOS includes a feature called Magnifier that works like a digital magnifying glass for real-life objects. It uses the camera on an iOS device, and includes support for color filters and the ability to take a photo to get a static close-up of the item in question.</p>
<p>302.3 Without Perception of Color. Where a visual mode of operation is provided, ICT shall provide at least one visual mode of operation that does not require user perception of color.</p>	<p>Supports with exceptions</p>	<p>iOS uses color to convey information in On/Off labels, but provides the ability to enable labels in the Accessibility settings.</p>

<p>302.4 Without Hearing. Where an audible mode of operation is provided, ICT shall provide at least one mode of operation that does not require user hearing.</p>	<p>Supports</p>	<p>iOS supports RTT (where supported by carrier), Software TTY mode, as well as Hardware TTY with an addition of an Apple iPhone TTY Adapter.</p> <p>iOS supports text messaging using SMS, MMS, iMessage and other third party web-based internet services or applications (sold separately) that support Internet Messaging services (IM) such as WhatsApp, WeChat, LINE, Facebook Messenger and Snapchat. Additional third-party applications (sold separately) designed for people who are deaf or hard of hearing may be available for iOS.</p> <p>Users can choose custom vibration alerts instead of ring tones. Incoming calls and message alerts are displayed visually on the bright LCD touchscreen, and, at the user's option, by flashing the LED camera flash.</p> <p>Siri supports a Type to Siri mode to request web searches, send messages, track down documents, set reminders, or turn on accessibility settings.</p> <p>Some users may be able to use the FaceTime video calling feature for sign language communications. FaceTime requires that both parties to the call have an internet connection (e.g., via Wi-Fi or cellular data service) and a device capable of making a FaceTime video call.</p> <p>iOS is compatible with ear loop devices, Bluetooth-enabled hearing aid solutions, and Made for iPhone hearing aids.</p>
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<p>302.5 With Limited Hearing. Where an audible mode of operation is provided, ICT shall provide at least one mode of operation that enables users to make use of limited hearing.</p>	<p>Supports</p>	<p>Audio is not required for operation of iOS, however, iOS supports video playback of closed caption content and subtitles (when available).</p> <p>Mono Audio combines left and right stereo channels into a mono signal played through both left and right speakers and headphones so all of the audio program can be heard more easily.</p> <p>iOS is compatible with ear loop devices, Bluetooth-enabled hearing aid solutions, and Made for iPhone hearing aids. (Any of these wired devices with a 3.5mm headphone jack can connect to an iOS device via a Lightning to 3.5mm Headphone Jack Adapter, which can be purchased separately from the Apple Store.)</p> <p>iOS includes a feature called Live Listen that allows users to fine tune Made for iPhone hearing aids and AirPods to help them hear more clearly. The user places their iPhone, iPad or iPod touch close to an audio source (e.g., a television, speaker/presenter, or general conversation) and the built-in microphone on the iOS device amplifies the audio source in the Made for iPhone hearing aids or AirPods.</p>
<p>302.6 Without Speech. Where speech is used for input, control, or operation, ICT shall provide at least one mode of operation that does not require user speech.</p>	<p>Supports</p>	<p>Siri supports a Type to Siri mode to request web searches, send messages, track down documents, set reminders, or turn on accessibility settings.</p>

<p>302.7 With Limited Manipulation. Where a manual mode of operation is provided, ICT shall provide at least one mode of operation that does not require fine motor control or simultaneous manual operations.</p>	<p>Supports</p>	<p>Using iOS on a touchscreen requires the use of 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 also choose to use a conductive stylus.</p> <p>iOS includes a number of Accessibility features to support motor control:</p> <ul style="list-style-type: none"><li>• AssistiveTouch, which provides an alternative set of screen gestures for users who may have difficulty touching the screen or pressing the device buttons. AssistiveTouch is compatible with joysticks and other adaptive accessories.</li><li>• Switch Control, which provides an alternate method for navigating and making onscreen selections. Switch Control will cycle through and emphasize the available onscreen options, and users can make their desired selection by tapping the screen, or using supported assistive devices or Bluetooth keyboards.</li><li>• Touch Accommodations, which provides a means to adjust how the screen responds to touches, such as controlling how long you touch before it's recognized or whether it ignores repeated touches.</li><li>• For devices that support 3D Touch, iOS allows the user to change the force required to activate 3D Touch in Accessibility settings. AssistiveTouch and Switch Control also provide means for activating 3D Touch functionality without applying force to the screen.</li></ul>
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<p>302.8 With Limited Reach and Strength. Where a manual mode of operation is provided, ICT shall provide at least one mode of operation that is operable with limited reach and limited strength.</p>	<p>Supports</p>	<p>Using iOS on a touchscreen requires the use of 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 also choose to use a conductive stylus.</p> <p>iOS includes a number of Accessibility features to support motor control:</p> <ul style="list-style-type: none"><li>• AssistiveTouch which provides an alternative set of screen gestures for users who may have difficulty touching the screen or pressing buttons. AssistiveTouch is compatible with joysticks and other adaptive accessories.</li><li>• Switch Control which provides an alternate method for navigating and making onscreen selections. iOS will cycle through and emphasize the available onscreen options, and users can make their desired selection by tapping the screen or using supported assistive devices.</li><li>• Touch Accommodations which provides a means to adjust how the screen responds to touches, such as controlling how long you touch before it's recognized or whether it ignores repeated touches.</li><li>• For devices that support 3D Touch, iOS allows the user to change the force required to activate 3D Touch. AssistiveTouch and Switch Control also provide means for activating 3D Touch functionality without applying force to the screen.</li><li>• Reachability allows content on the screen to shift down closer to your thumb.</li></ul> <p>Siri supports natural-language voice commands to send messages, schedule meetings, place phone calls, control music playback, input text, speak out content on the screen, check the weather, and more. Siri can talk back to you and read text messages, acknowledge voice commands, respond to questions, and more.</p>
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<p>302.9 With Limited Language, Cognitive, and Learning Abilities. ICT shall provide features making its use by individuals with limited cognitive, language, and learning abilities simpler and easier.</p>	<p>Supports</p>	<p>iOS includes a number of features to make usage simpler:</p> <ul style="list-style-type: none"> <li>• Guided Access which allows a parent, teacher, or administrator to limit an iOS device to one app by disabling the Home button and restrict touch input on certain areas of the screen.</li> <li>• Siri supports natural-language voice commands to send messages, schedule meetings, place phone calls, control music playback, input text, speak out content on the screen, check the weather, and more. Siri can talk back to you and read text messages, acknowledge voice commands, respond to questions, and more.</li> <li>• Dictation lets you talk where you would type. Tap the microphone button on the keyboard, say what you want to write, and iOS converts your words, numbers and characters into text.</li> <li>• LED Camera Flash provides a visual indication of alert sounds via the LED Camera Flash. (iPhone only)</li> <li>• Applications can notify the user of important information using the notification system built into iOS. Notifications appear in the middle of the screen making them easy to view.</li> <li>• Speak Screen and Speak Selection provide text to speech functionality. You can also set the device to highlight words, sentences, or words within each sentence while it is read aloud.</li> <li>• Predictive Text, which suggests word options that you can listen to and choose from to get help with spelling, is available in 33 languages.</li> <li>• Safari Reader reduces the visual clutter on webpages by removing ads, buttons, and navigation bars.</li> </ul>
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## Chapter 4: Hardware -

See iPhone and iPad VPATs.

## Chapter 5: Software -

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	See information in WCAG Section
502 Interoperability with Assistive Technology		
502.2.1 User Control of Accessibility Features. Platform software shall provide user control over platform features that are defined in the platform documentation as accessibility features.	Supports	Accessibility features can be controlled within General Settings or via the user configured accessibility Shortcuts.
502.2.2 No Disruption of Accessibility Features. Software shall not disrupt platform features that are defined in the platform documentation as accessibility features.	Supports	iOS includes an accessibility API that enables applications to interact with assistive technologies without disrupting the system or each other. Details of the Accessibility API are available on the Apple Developer web site: <a href="https://developer.apple.com/technologies/ios/accessibility.html">https://developer.apple.com/technologies/ios/accessibility.html</a>
502.3 Accessibility Services		
502.3.1 Object Information. The object role, state(s), properties, boundary, name, and description shall be programmatically determinable.	Supports	

<p>502.3.2 Modification of Object Information. States and properties that can be set by the user shall be capable of being set programmatically, including through assistive technology.</p>	<p>Supports</p>	
<p>502.3.3 Row, Column, and Headers. If an object is in a data table, the occupied rows and columns, and any headers associated with those rows or columns, shall be programmatically determinable.</p>	<p>Supports</p>	
<p>502.3.4 Values. Any current value(s), and any set or range of allowable values associated with an object, shall be programmatically determinable.</p>	<p>Supports</p>	
<p>502.3.5 Modification of Values. Values that can be set by the user shall be capable of being set programmatically, including through assistive technology.</p>	<p>Supports</p>	
<p>502.3.6 Label Relationships. Any relationship that a component has as a label for another component, or of being labeled by another component, shall be programmatically determinable.</p>	<p>Supports</p>	<p>Accessibility honors the labels set programmatically by the developer.</p>
<p>502.3.7 Hierarchical Relationships. Any hierarchical (parent-child) relationship that a component has as a container for, or being contained by, another component shall be programmatically determinable.</p>	<p>Supports</p>	
<p>502.3.8 Text. The content of text objects, text attributes, and the boundary of text rendered to the screen, shall be programmatically determinable.</p>	<p>Supports</p>	
<p>502.3.9 Modification of Text. Text that can be set by the user shall be capable of being set programmatically, including through assistive technology.</p>	<p>Supports</p>	

502.3.10 List of Actions. A list of all actions that can be executed on an object shall be programmatically determinable.	Supports	
502.3.11 Actions on Objects. Applications shall allow assistive technology to programmatically execute available actions on objects.	Supports	
502.3.12 Focus Cursor. Applications shall expose information and mechanisms necessary to track focus, text insertion point, and selection attributes of user interface components.	Supports	
502.3.13 Modification of Focus Cursor. Focus, text insertion point, and selection attributes that can be set by the user shall be capable of being set programmatically, including through the use of assistive technology.	Supports	
502.3.14 Event Notification. Notification of events relevant to user interactions, including but not limited to, changes in the component's state(s), value, name, description, or boundary, shall be available to assistive technology.	Supports	

<p>502.4 Platform Accessibility Features. Platforms and platform software shall conform to the requirements in ANSI/HFES 200.2, Human Factors Engineering of Software User Interfaces — Part 2: Accessibility (2008) (incorporated by reference, see 702.4.1) listed below:</p> <ul style="list-style-type: none"> <li>A. Section 9.3.3 Enable sequential entry of multiple (chorded) keystrokes;</li> <li>B. Section 9.3.4 Provide adjustment of delay before key acceptance;</li> <li>C. Section 9.3.5 Provide adjustment of same-key double-strike acceptance;</li> <li>D. Section 10.6.7 Allow users to choose visual alternative for audio output;</li> <li>E. Section 10.6.8 Synchronize audio equivalents for visual events;</li> <li>F. Section 10.6.9 Provide speech output services; and</li> <li>G. Section 10.7.1 Display any captions provided.</li> </ul>	<p>Supports</p>	<p>iOS provide Accessibility settings for modifying the mentioned options, such as Key Repeat, speech output, and alternative for speech feedback.</p>
<p>503 Applications</p>		

<p>503.2 User Preferences. Applications shall permit user preferences from platform settings for color, contrast, font type, font size, and focus cursor.</p>	<p>Supports</p>	<p>iOS provides system-level control of display characteristics that cannot be overridden by applications, including:</p> <ul style="list-style-type: none"> <li>• Users can invert the light and dark colors displayed on the screen.</li> <li>• Users can switch the display from color to grayscale.</li> <li>• Users can choose from a variety of filters and tints and customize intensity</li> <li>• Users can reduce transparency to increase legibility.</li> <li>• Users can reduce the white point to decrease the intensity of bright colors.</li> <li>• Users can magnify the screen, including dynamically changing content like movies. (See section 1194.31(b) for more information about Zoom).</li> </ul> <p>All of these features are accessed through the Accessibility settings and can be used together in different combinations to suit the user's needs.</p>
<p>503.3 Alternative User Interfaces. Where an application provides an alternative user interface that functions as assistive technology, the application shall use platform and other industry standard accessibility services.</p>	<p>Supports</p>	<p>iOS includes an accessibility API that enables applications to interact with assistive technologies without disrupting the system or each other. Details of the Accessibility API are available on the Apple Developer web site:  <a href="https://developer.apple.com/technologies/ios/accessibility.html">https://developer.apple.com/technologies/ios/accessibility.html</a></p>
<p>503.4 User Controls for Captions and Audio Description.</p>		

<p>503.4.1 Caption Controls. Where user controls are provided for volume adjustment, ICT shall provide user controls for the selection of captions at the same menu level as the user controls for volume or program selection.</p>	<p>Supports</p>	<p>iOS supports system-side platform settings for captions</p>
<p>503.4.2 Audio Description Controls. Where user controls are provided for program selection, ICT shall provide user controls for the selection of audio descriptions at the same menu level as the user controls for volume or program selection.</p>	<p>Supports</p>	<p>iOS supports system-side platform settings for audio descriptions</p>
<p>504 Authoring Tools</p>		
<p>504.2 Content Creation or Editing. Authoring tools shall provide a mode of operation to create or edit content that conforms to Level A and Level AA Success Criteria and Conformance Requirements in WCAG 2.0 (incorporated by reference, see 702.10.1) for all supported features and, as applicable, to file formats supported by the authoring tool. Authoring tools shall permit authors the option of overriding information required for accessibility.</p>	<p>See WCAG 2.0 section</p>	<p>See information in WCAG Section</p>
<p>504.2.1 Preservation of Information Provided for Accessibility in Format Conversion. Authoring tools shall, when converting content from one format to another or saving content in multiple formats, preserve the information required for accessibility to the extent that the information is supported by the destination format.</p>	<p>Supports with exceptions</p>	<p>Not all authoring tools support preservation of accessibility information when converting content or saving in multiple formats.</p>
<p>504.2.2 PDF Export. Authoring tools capable of exporting PDF files that conform to ISO 32000-1:2008 (PDF 1.7) shall also be capable of exporting PDF files that conform to ANSI/AIIM/ISO 14289-1:2016 (PDF/UA-1) (incorporated by reference, see 702.3.1).</p>	<p>Does not Support</p>	

<p>504.3 Prompts. Authoring tools shall provide a mode of operation that prompts authors to create content that conforms to Level A and Level AA Success Criteria and Conformance Requirements in WCAG 2.0 (incorporated by reference, see 702.10.1) for supported features and, as applicable, to file formats supported by the authoring tool.</p>	<p>Does not Support</p>	
<p>504.4 Templates. Where templates are provided, templates allowing content creation that conforms to Level A and Level AA Success Criteria and Conformance Requirements in WCAG 2.0 (incorporated by reference, see 702.10.1) shall be provided for a range of template uses for supported features and, as applicable, to file formats supported by the authoring tool.</p>	<p>Does not Support</p>	

## Chapter 6: Support Documentation and Services -

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
602 Support Documentation		

<p>602.2 Accessibility and Compatibility Features. Documentation shall list and explain how to use the accessibility and compatibility features required by Chapters 4 and 5. Documentation shall include accessibility features that are built-in and accessibility features that provide compatibility with assistive technology.</p>	<p>Supports</p>	<p>iOS product documentation is available online in an accessible format in accessible HTML format through;</p> <ul style="list-style-type: none"> <li>• Apple Support at <a href="https://www.apple.com/support">https://www.apple.com/support</a></li> <li>• iOS new release page at <a href="https://www.apple.com/iOS">https://www.apple.com/iOS</a></li> <li>• Accessibility product page at <a href="https://www.apple.com/accessibility/iphone/">https://www.apple.com/accessibility/iphone/</a></li> </ul> <p>The Switch Control and Accessibility Keyboard guide and the Voice Over guide are delivered as online manual in accessible HTML from <a href="https://support.apple.com/en_US/manuals/ios">https://support.apple.com/en_US/manuals/ios</a>. The Voice Over guide is available electronic .brf braille at no charge. Charges may apply for embossed braille.</p> <p>VPATs for Apple products are available at <a href="https://support.apple.com/accessibility/vpat">https://support.apple.com/accessibility/vpat</a>.</p>
<p>602.3 Electronic Support Documentation. Documentation in electronic format, including Web-based self-service support, shall conform to Level A and Level AA Success Criteria and Conformance Requirements in WCAG 2.0 (incorporated by reference, see 702.10.1).</p>	<p>Supports</p>	<p>The electronic web-based product documentation for iOS conforms to both Level A and Level AA Success Criteria and Conformance Requirements in WCAG 2.0.</p>
<p>602.4 Alternate Formats for Non-Electronic Support Documentation. Where support documentation is only provided in non-electronic formats, alternate formats usable by individuals with disabilities shall be provided upon request.</p>	<p>Supports</p>	<p>Product documentation is available in embossed braille via third party provider.</p>
<p>603 Support Services</p>		
<p>603.2 Information on Accessibility and Compatibility Features. ICT support services shall include information on the accessibility and compatibility features required by 602.2.</p>	<p>Supports</p>	<p>Apple Support provides advisors with information on accessibility and compatibility features for iOS. This information is also documented in the product documentation.</p>

<p>603.3 Accommodation of Communication Needs. Support services shall be provided directly to the user or through a referral to a point of contact. Such ICT support services shall accommodate the communication needs of individuals with disabilities.</p>	<p>Supports</p>	<p>Support via the Internet is available through the Apple Knowledge base at <a href="http://www.apple.com/support">http://www.apple.com/support</a>.</p> <p>For additional information on the many service and support options offered by Apple visit <a href="http://www.apple.com/support">www.apple.com/support</a>.</p>
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