

Apple Accessibility Conformance Report

Based on Voluntary Product Accessibility Template® (VPAT®)

Name of Product: Apple Watch Series 4 (GPS)

Product Description: Apple Watch Series 4 and watchOS 5

Date: September 21, 2018

Contact information: accessibility@apple.com

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
<p>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.</p>	<p>Supports with exceptions</p>	<p>VoiceOver, the screen reader built into watchOS, 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.</p>
<p>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:</p> <ul style="list-style-type: none"> • Prerecorded Audio-only: An alternative for time-based media is provided that presents equivalent information for prerecorded audio-only content. • 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. 	<p>Not Applicable</p>	
<p>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.</p>	<p>Not Applicable</p>	
<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>Not Applicable</p>	

Criteria	Conformance Level	Remarks and Explanations
1.3.1 Info and Relationships: Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text.	Supports	
1.3.2 Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined.	Supports	
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.	Supports	watchOS accessibility provides many alternatives for communicating Sensory information, including labeling of On/Off toggles and increased contrast for distinguishing foreground and background colors.
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.	Supports with Exceptions	<p>watchOS 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 watchOS provides the ability to customize contrast to support some vision challenges.</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.	Not Applicable	
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.	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
<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>	Not Applicable	
<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>	Supports with Exceptions	While watchOS 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>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"> • 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 • 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. 	Supports with Exceptions	watchOS 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 watchOS Human Interface Guidelines (HIG) for animation and respect the user's Reduce Motion setting.
<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>	Supports	watchOS supports WebKit for text and images only.

Criteria	Conformance Level	Remarks and Explanations
2.4.1 Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages.	Supports	
2.4.2 Page Titled: Web pages have titles that describe topic or purpose.	Supports	
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.	Supports	
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.	Supports	
3.1.1 Language of Page: The default human language of each Web page can be programmatically determined.	Supports	
3.2.1 On Focus: When any component receives focus, it does not initiate a change of context. (Level A)	Supports	watchOS does not change context when an item receives focus. VoiceOver's gesture require the user to perform a double tap to activate.
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.	Supports	
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.	Supports	watchOS Accessibility honors errors and alerts, moves focus to the error/alert, and speaks the description of the error/alert.

Criteria	Conformance Level	Remarks and Explanations
3.3.2 Labels or Instructions: Labels or instructions are provided when content requires user input.	Supports	watchOS 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.
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.	Supports	In watchOS, the software framework provides assistive technology with the following for all elements: boundaries, attributes, unique identifiers, and descriptions.
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.	Supports	In watchOS, the software framework provides assistive technology with the following for all elements: boundaries, attributes, unique identifiers, and descriptions.

Table 2: Conformance Criteria, Level AA -

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live): Captions are provided for all live audio content in synchronized media.	Not Applicable	
1.2.5 Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media.	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
<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"> • Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 3:1; • 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. • Logotypes: Text that is part of a logo or brand name has no minimum contrast requirement. 	Supports	
<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>	Supports	<p>watchOS includes a feature that allows users to activate Larger Dynamic Type to increase the text size for a range of Apple Watch apps, including Mail, Messages, and Settings, to make it easier to read. Users can also choose Bold Text to make the text heavier across built-in apps.</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"> • Customizable: The image of text can be visually customized to the user's requirements; • Essential: A particular presentation of text is essential to the information being conveyed. 	Supports	<p>watchOS Accessibility programmatically provides descriptions for images of text.</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>	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
2.4.6 Headings and Labels: Headings and labels describe topic or purpose.	Supports	Native applications that have nested information provide descriptive navigational structure (bread crumbs).
2.4.7 Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible.	Not Applicable	
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.	Does Not Support	
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.	Supports	
3.2.4 Consistent Identification: Components that have the same functionality within a set of Web pages are identified consistently.	Supports	
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.	Supports	watchOS provides error information, warnings, and suggestions, spoken when using watchOS Accessibility.

Criteria	Conformance Level	Remarks and Explanations
<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"> • Reversible: Submissions are reversible. • Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. • Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission. 	Not Applicable	

**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>Apple Watch includes a built-in gesture-based screen reader called VoiceOver that enables the Apple Watch to be used without seeing the screen. VoiceOver uses the speaker on Apple Watch (or any Bluetooth audio device) and is compatible with built-in apps. VoiceOver is available in the prominent languages of over 30 countries.</p> <p>Apple Watch’s Siri supports natural-language voice commands to send messages, schedule meetings, place phone calls, control music playback, input text, check the weather, and more. Siri acknowledges voice commands and can respond using audio to answer questions and more.</p> <p>In countries where Walkie-Talkie is available, users can use Walkie-Talkie to communicate with friends, family, and caretakers. Special haptics and sounds distinguish between Walkie-Talkie and other notifications on Apple Watch. The speaker on Apple Watch Series 4 is 50% louder than before.</p> <p>Users can use Voice Dictation to translate voice to text when interacting with Siri or writing a message. Voice Dictation is supported in over 35 languages.</p> <p>Taptic Time, a series of distinct taps from the Taptic Engine, can discreetly tell you what time it is, and offers the user three Taptic style options: digits, terse, and Morse code.</p> <p>Siri is available in the prominent languages of over 35 countries. For more information about Apple Watch accessibility features, see https://www.apple.com/accessibility/watch/</p>

Criteria	Conformance Level	Remarks and Explanations
<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>Apple Watch includes a feature called Zoom, which can magnify the screen up to 1,500%.</p> <p>Turning on Bold Text will make the text on your Apple Watch screen appear darker, including for third-party apps.</p> <p>Apple Watch comes with an option for an X-Large watch face with numbers that take up the entire screen, making it easier to view the time.</p> <p>For more information about Apple Watch accessibility features, see https://www.apple.com/accessibility/watch/</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</p>	<p>watchOS uses color to convey information in On/Off labels, but provides the ability to enable labels in the Accessibility settings.</p>

Criteria	Conformance Level	Remarks and Explanations
<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>watchOS 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, and Facebook Messenger. Additional third-party applications (sold separately) designed for people who are deaf or hard of hearing may be available for watchOS.</p> <p>Apple Watch's unique Taptic Engine provides a gentle tap on your wrist every time a notification comes in. Users can choose the strength of their Haptic notifications, or turn on Prominent Haptic to pre-announce some common alerts. Incoming calls and message alerts are displayed visually on the bright touchscreen.</p> <p>Users can reply to messages by scribbling letters on the watch display, which Apple Watch converts to text.</p> <p>Apple Watch is compatible with Bluetooth-enabled hearing aid solutions.</p>
<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 watchOS.</p> <p>Apple Watch also includes a built-in speaker and is compatible with Bluetooth headphones.</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>Apple Watch is compatible with Bluetooth-enabled hearing aid solutions.</p>

Criteria	Conformance Level	Remarks and Explanations
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.	Supports with Exceptions	Apple Watch does not require user speech for most actions. Information provided by Siri is already provided via apps and is not mandatory for device usage.
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.	Supports	<p>Apple Watch includes a built-in screen reader called VoiceOver that enables Apple Watch to be used by those with limited reach and strength.</p> <p>SiriKit supports natural-language voice commands to send messages, place phone calls, control music playback, input text, check the weather, and more. Siri can respond using audio (built-in speakers or Bluetooth devices) to acknowledge voice commands, answer questions, and more.</p> <p>For wheelchair users, the Activity App defines its rings as Roll, Exercise, and Move. Activity measures pushes, so active calories are calculated more accurately. Sensors are configured to address different surface types, inclines, and transition moments.</p> <p>VoiceOver is available in over 35 languages. SiriKit is available for download in over 35 languages. For more information about Apple Watch accessibility features, see https://www.apple.com/accessibility/watch/</p>

Criteria	Conformance Level	Remarks and Explanations
<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>Apple Watch includes a built-in screen reader called VoiceOver that enables Apple Watch to be used by those with limited reach and strength.</p> <p>SiriKit supports natural-language voice commands to send messages, place phone calls, control music playback, input text, check the weather, and more. Siri can respond using audio (built-in speakers or Bluetooth devices) to acknowledge voice commands, answer questions, and more.</p> <p>For wheelchair users, the Activity App defines its rings as Roll, Exercise, and Move. Activity measures pushes, so active calories are calculated more accurately. Sensors are configured to address different surface types, inclines, and transition moments.</p> <p>VoiceOver is available in over 35 languages. SiriKit is available for download in over 35 languages. For more information about Apple Watch accessibility features, see https://www.apple.com/accessibility/watch/</p>

Criteria	Conformance Level	Remarks and Explanations
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.	Supports	<p>watchOS includes a number of features to make usage simpler:</p> <ul style="list-style-type: none"> • 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. • Dictation lets you talk where you would type. Tap the microphone button on the keyboard, say what you want to write, and watchOS converts your words, numbers and characters into text. • Applications can notify the user of important information using the notification system built into watchOS. Notifications appear in the middle of the screen making them easy to view. • Preset replies, which suggest options with which to quickly reply to messages.

Chapter 4: Hardware -

Criteria	Conformance Level	Remarks and Explanations
402 Closed Functionality		
402.1 General		
402.2 Speech-Output Enabled		

Criteria	Conformance Level	Remarks and Explanations
402.2.1 Information Displayed On-Screen. Speech output shall be provided for all information displayed on-screen.	Supports	watchOS includes a screen reader called VoiceOver that enables the Apple Watch to be used without seeing the screen. VoiceOver is available in over 35 languages.
402.2.2 Transactional Outputs. Where transactional outputs are provided, the speech output shall audibly provide all information necessary to verify a transaction.	Supports	
402.2.3 Speech Delivery Type and Coordination. Speech output shall be delivered through a mechanism that is readily available to all users, including, but not limited to, an industry standard connector or a telephone handset. Speech shall be recorded or digitized human, or synthesized. Speech output shall be coordinated with information displayed on the screen.	Supports	Speech is delivered via the following options: 1) The speaker in the device 2) Headphones can be connected over standard bluetooth protocols
402.2.4 User Control. Speech output for any single function shall be automatically interrupted when a transaction is selected. Speech output shall be capable of being repeated and paused.	Supports	VoiceOver supports audio to allow screen reader information to interrupt other audio. Gestures are available to repeat and pause speech.
402.2.5 Braille Instructions. Where speech output is required by 402.2, braille instructions for initiating the speech mode of operation shall be provided. Braille shall be contracted and shall conform to 36 CFR part 1191, Appendix D, Section 703.3.1.	Not Applicable	
402.3 Volume		
402.3.1 Private Listening. Where ICT provides private listening, it shall provide a mode of operation for controlling the volume. Where ICT delivers output by an audio transducer typically held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.	Supports	Apple AirPods seamlessly work with the OS, which allows private listening for users to hear speech and audio output from the device. Apple Watch is compatible with Bluetooth-enabled hearing aid solutions.

Criteria	Conformance Level	Remarks and Explanations
402.3.2 Non-private Listening. Where ICT provides non-private listening, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. A function shall be provided to automatically reset the volume to the default level after every use.	Supports	VoiceOver provides a gesture to change the output and volume of the device in both private and non-private listening modes.
402.4 Characters on Display Screens. At least one mode of characters displayed on the screen shall be in a sans serif font. Where ICT does not provide a screen enlargement feature, characters shall be 3/16 inch (4.8 mm) high minimum based on the uppercase letter “I”. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.	Supports	Standard watchOS font style is sans serif.
402.5 Characters on Variable Message Signs. Characters on variable message signs shall conform to section 703.7 Variable Message Signs of ICC A117.1-2009 (incorporated by reference, see 702.6.1).	Not Applicable	
403 Biometrics		
403.1 General. Where provided, biometrics shall not be the only means for user identification or control.	Not Applicable	
404 Preservation of Information Provided for Accessibility		
404.1 General. ICT that transmits or converts information or communication shall not remove non-proprietary information provided for accessibility or shall restore it upon delivery.	Not Applicable	
405 Privacy		

Criteria	Conformance Level	Remarks and Explanations
405.1 General. The same degree of privacy of input and output shall be provided to all individuals. When speech output required by 402.2 is enabled, the screen shall not blank automatically.	Supports	By default, visual input remains on screen during use of VoiceOver. VoiceOver also includes a screen curtain feature for additional privacy for screen reader users.
406 Standard Connections		
406.1 General. Where data connections used for input and output are provided, at least one of each type of connection shall conform to industry standard non-proprietary formats.	Supports	Apple Watch supports wireless industry standards for the transmission of voice and data, including LTE, Bluetooth 5.0, and 802.11 a/b/g/n/ac Wi-Fi.
407 Operable Parts		
407.2 Contrast. Where provided, keys and controls shall contrast visually from background surfaces. Characters and symbols shall contrast visually from background surfaces with either light characters or symbols on a dark background or dark characters or symbols on a light background.	Supports	
407.3 Input Controls		
407.3.1 Tactilely Discernible. Input controls shall be operable by touch and tactilely discernible without activation.	Supports	<p>The Digital Crown and side button are also tactilely discernible.</p> <p>Using the Apple Watch touchscreen requires the use of a bare finger or conductive device.</p>
407.3.2 Alphabetic Keys. Where provided, individual alphabetic keys shall be arranged in a QWERTY-based keyboard layout and the “F” and “J” keys shall be tactilely distinct from the other keys.	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
407.3.3 Numeric Keys. Where provided, numeric keys shall be arranged in a 12-key ascending or descending keypad layout. The number five key shall be tactilely distinct from the other keys. Where the ICT provides an alphabetic overlay on numeric keys, the relationships between letters and digits shall conform to ITU-T Recommendation E.161 (incorporated by reference, see 702.7.1).	Not Applicable	
407.4 Key Repeat. Where a keyboard with key repeat is provided, the delay before the key repeat feature is activated shall be fixed at, or adjustable to, 2 seconds minimum.	Not Applicable	
407.5 Timed Response. Where a timed response is required, the user shall be alerted visually, as well as by touch or sound, and shall be given the opportunity to indicate that more time is needed.	Not Applicable	
407.6 Operation. At least one mode of operation shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.	Supports	
407.7 Tickets, Fare Cards, and Keycards. Where tickets, fare cards, or keycards are provided, they shall have an orientation that is tactilely discernible if orientation is important to further use of the ticket, fare card, or keycard.	Not Applicable	
407.8 Reach Height and Depth	Not Applicable	Not Applicable
408 Display Screens		

Criteria	Conformance Level	Remarks and Explanations
408.2 Visibility. Where stationary ICT provides one or more display screens, at least one of each type of display screen shall be visible from a point located 40 inches (1015 mm) above the floor space where the display screen is viewed.	Not Applicable	
408.3 Flashing. Where ICT emits lights in flashes, there shall be no more than three flashes in any one-second period.	Not Applicable	
409 Status Indicators		
409.1 General. Where provided, status indicators shall be discernible visually and by touch or sound.	Supports	watchOS contains a screen reader that speaks all alerts and the state of all status indicators. Apple Watch gives haptic feedback for alerts, including notifications and alarms.
410 Color Coding		
410.1 General. Where provided, color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supports with Exceptions	<p>watchOS 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 watchOS provides the ability to customize contrast to support some vision challenges.</p>
411 Audible Signals		
411.1 General. Where provided, audible signals or cues shall not be used as the only means of conveying information, indicating an action, or prompting a response	Supports	
412 ICT with Two-Way Voice Communication		

Criteria	Conformance Level	Remarks and Explanations
412.2 Volume Gain		
412.2.1 Volume Gain for Wireline Telephones. Volume gain conforming to 47 CFR 68.317 shall be provided on analog and digital wireline telephones.	Not Applicable	
412.2.2 Volume Gain for Non-Wireline ICT. A method for increasing volume shall be provided for non-wireline ICT.	Not Applicable	
412.3 Interference Reduction and Magnetic Coupling		
412.3.1 Wireless Handsets. ICT in the form of wireless handsets shall conform to ANSI/IEEE C63.19-2011 (incorporated by reference, see 702.5.1).	Not Applicable	
412.3.2 Wireline Handsets. ICT in the form of wireline handsets, including cordless handsets, shall conform to TIA-1083-B (incorporated by reference, see 702.9.1).	Not Applicable	
412.4 Digital Encoding of Speech. ICT in IP-based networks shall transmit and receive speech that is digitally encoded in the manner specified by ITU-T Recommendation G.722.2 (incorporated by reference, see 702.7.2) or IETF RFC 6716 (incorporated by reference, see 702.8.1).	Supports	
412.5 Real-Time Text Functionality		
412.6 Caller ID. Where provided, caller identification and similar telecommunications functions shall be visible and audible.	Supports	

Criteria	Conformance Level	Remarks and Explanations
412.7 Video Communication. Where ICT provides real-time video functionality, the quality of the video shall be sufficient to support communication using sign language.	Not Applicable	
413 Closed Caption Processing Technologies		
413.1.1 Decoding and Display of Closed Captions. Players and displays shall decode closed caption data and support display of captions.	Not Applicable	
413.1.2 Pass-Through of Closed Caption Data. Cabling and ancillary equipment shall pass through caption data.	Not Applicable	
414 Audio Description Processing Technologies		
414.1.1 Digital Television Tuners. Digital television tuners shall provide audio description processing that conforms to ATSC A/53 Digital Television Standard, Part 5 (2014) (incorporated by reference, see 702.2.1). Digital television tuners shall provide processing of audio description when encoded as a Visually Impaired (VI) associated audio service that is provided as a complete program mix containing audio description according to the ATSC A/53 standard.	Not Applicable	
414.1.2 Other ICT. ICT other than digital television tuners shall provide audio description processing.	Not Applicable	
415 User Controls for Captions and Audio Descriptions		
415.1.1 Where ICT provides operable parts for volume control, ICT shall also provide operable parts for caption selection.	Does not Support	

Criteria	Conformance Level	Remarks and Explanations
415.1.2 Audio Description Controls. Where ICT provides operable parts for program selection, ICT shall also provide operable parts for the selection of audio description.	Not Applicable	

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.
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	watchOS 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: https://developer.apple.com/accessibility/watchos/
502.3 Accessibility Services		
502.3.1 Object Information. The object role, state(s), properties, boundary, name, and description shall be programmatically determinable.	Supports	

Criteria	Conformance Level	Remarks and Explanations
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.	Supports	
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.	Supports	
502.3.4 Values. Any current value(s), and any set or range of allowable values associated with an object, shall be programmatically determinable.	Supports	
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.	Supports	
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.	Supports	Accessibility honors the labels set programmatically by the developer.
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.	Supports	
502.3.8 Text. The content of text objects, text attributes, and the boundary of text rendered to the screen, shall be programmatically determinable.	Supports	
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.	Supports	

Criteria	Conformance Level	Remarks and Explanations
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.	Does not Support	
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.	Does not Support	
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	

Criteria	Conformance Level	Remarks and Explanations
<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"> A. Section 9.3.3 Enable sequential entry of multiple (chorded) keystrokes; B. Section 9.3.4 Provide adjustment of delay before key acceptance; C. Section 9.3.5 Provide adjustment of same-key double-strike acceptance; D. Section 10.6.7 Allow users to choose visual alternative for audio output; E. Section 10.6.8 Synchronize audio equivalents for visual events; F. Section 10.6.9 Provide speech output services; and G. Section 10.7.1 Display any captions provided. 	Supports	See Conformance Criteria Level A and AA.
503 Applications		

Criteria	Conformance Level	Remarks and Explanations
503.2 User Preferences. Applications shall permit user preferences from platform settings for color, contrast, font type, font size, and focus cursor.	Supports	<p>watchOS provides system-level control of display characteristics that cannot be overridden by applications, including:</p> <ul style="list-style-type: none"> • Users can switch the display from color to grayscale. • Users can reduce transparency to increase legibility. • Users can magnify the screen, including dynamically changing content like movies. (See section 1194.31(b) for more information about Zoom). <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>
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.	Supports	<p>watchOS 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: https://developer.apple.com/accessibility/watchos/</p>
503.4 User Controls for Captions and Audio Description.		
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.	Not Applicable	
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.	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
504 Authoring Tools		
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.	See WCAG 2.0 section	See information in WCAG Section
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.	Not Applicable	
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).	Not Applicable	
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.	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
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.	Not Applicable	

Chapter 6: Support Documentation and Services -

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
602 Support Documentation		

Criteria	Conformance Level	Remarks and Explanations
<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>Apple Watch product documentation is available online in an accessible format in accessible HTML format through;</p> <ul style="list-style-type: none"> • Apple Support at https://www.apple.com/support • Apple Watch new release page at https://www.apple.com/watch/ • Accessibility product page at https://www.apple.com/accessibility/watch/ <p>The Accessibility guide and the Voice Over guide are delivered as online manual in accessible HTML from https://support.apple.com/en_US/manuals/applewatch. 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 https://support.apple.com/accessibility/vpat.</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>See WCAG 2.0 section</p>	<p>See information in WCAG Section</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>		

Criteria	Conformance Level	Remarks and Explanations
603.2 Information on Accessibility and Compatibility Features. ICT support services shall include information on the accessibility and compatibility features required by 602.2.	Supports	Apple Support provides advisors with information on accessibility and compatibility features for watchOS. This information is also documented in the product documentation.
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.	Supports	Support via the Internet is available through the Apple Knowledge base at http://www.apple.com/support . For additional information on the many service and support options offered by Apple visit www.apple.com/support .

Legal Disclaimer:

Some features described in this document are not available in all areas, may be subject to additional fees or payments, and may be dependent on your cellular carrier network policies and wireless service plan, including, for example, LTE and Walkie-Talkie over cellular.

Apple Watch Series 4 includes watchOS 5, a Magnetic Charging Cable, and a USB Power Adapter. Other accessories or products mentioned in this document (e.g., assistive devices, styluses, hearing aids, adapters, hearing aids, and so on) are sold separately by Apple and/or third parties.

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