Cisco Accessibility Conformance Report VPAT[®] Version 2.1

Name of Product/Version: Cisco IP Phone 8800 Series Product Description: The Cisco IP Phone 8800 Series provides high-quality, secure, full-featured video and VoIP communications with built-in text-to-speech functionality. Date: September 10, 2018 Contact Information: accessibility@cisco.com Evaluation Method Used: Manual Testing

Summary Table - Voluntary Product Accessibility Template

Standard/Guideline	Included In Report	Remarks and Explanations
W3C WCAG 2.0 Level A and AA for Web application	Not Applicable	
Section 508 Chapter 3: Functional Performance Criteria	Included	
Section 508 Chapter 4: Hardware	Included	
W3C WCAG 2.0 Level A and AA for Software application	Not Applicable	
Section 508 Chapter 5: Software	Not Applicable	
W3C WCAG 2.0 Level A and AA for Documentation	Included	
Section 508 Chapter 6: Support Documentation and Services	Included	

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Last Updated: September 10, 2018

Criteria	Description	Status	Remarks and Explanations
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.	Supports with Exceptions	Built-in text-to-speech functionality supported for most of the features.
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.	Supports	
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.	Supports	
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.	Supports	
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.	Supports	
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	
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	
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.	Supports	
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 with Exceptions	Support for users with limited language, cognitive, and learning abilities is vary and depends on the user's experience.

Section 508 Chapter 4: Hardware – Detail

Criteria	Description	Status	Remarks and Explanations
402	Closed Functionality	Supports	
402.1	General. ICT with closed functionality shall be operable without requiring the user to attach or install assistive technology other than personal headsets or other audio couplers, and shall conform to 402.	Supports	
402.2	Speech-Output Enabled. ICT with a display screen shall be speech-output enabled for full and independent use by individuals with vision impairments.	Supports with Exceptions	Built-in text-to-speech functionality supported for most of the features.
402.2.1	Information Displayed On-Screen. Speech output shall be provided for all information displayed on-screen.	Supports with Exceptions	Built-in text-to-speech functionality is provided for most of the information displayed on the screen.
402.2.2	Transactional Outputs. Where transactional outputs are provided, the speech output shall audibly provide all information necessary to verify a transaction.	Not Applicable	Applicable for an ICT which provides transactional data. An example of transaction data is cash withdrawal from an ATM.
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	
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	Speech output is automatically interrupted on user action.
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	Supports	The braille instructions for initiating the speech mode of operation is available upon request from Cisco.

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402.3	Volume. ICT that delivers sound, including speech output required by 402.2, shall provide volume control and output amplification conforming to 402.3.	Supports	Conforms to 412.2
	EXCEPTION: ICT conforming to 412.2 shall not be required to conform to 402.3.		
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	
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	
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	
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	VARIABLE MESSAGE SIGNS (VMS) are the electronic signs that change information as they show such as gate information in train stations and airports.
403	Biometrics	Not Applicable	Cisco IP Phones does not use 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	Supports	

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.	Supports	The Baudot tones used by U.S. standard TTY's are transmitted and received reliably by the IP Phones.
405	Privacy	Supports	
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	
406	Standard Connections	Supports	
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	Cisco IP Phones are equipped with standard connectors including RJ- 45, USB and Bluetooth etc.
407	Operable Parts	Supports	
407.1	General. Where provided, operable parts used in the normal operation of ICT shall conform to 407.	Supports	
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	
407.3.1	Tactilely Discernible. Input controls shall be operable by touch and tactilely discernible without activation.	Supports	The dial pads on the IP Phones are arranged in a standard layout, with a raised nib on the 5-key, thereby making "tactile navigation" easier for visually impaired users.
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	Applicable for products with QWERTY keyboard. The QWERTY keyboard not supported on 8800 Series phones.

407.3.3	Numeric Keys. Where provided, numeric keys shall be	Supports	
1011010	arranged in a 12-key ascending or descending keypad	Cappone	
	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		
407.4	Key Repeat. Where a keyboard with key repeat is provided,	Not Applicable	No basic call feature buttons on the
	the delay before the key repeat feature is activated shall be		phone have an auto repeat function.
	fixed at, or adjustable to, 2 seconds minimum.		
407.5	Timed Response. Where a timed response is required, the	Not Applicable	None of the features require timed
	user shall be alerted visually, as well as by touch or sound,		response.
	and shall be given the opportunity to indicate that more time		
	is needed.		
407.6	Operation. At least one mode of operation shall be operable	Supports	
	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.		
407.7	Tickets, Fare Cards, and Keycards. Where tickets, fare	Not Applicable	Cisco phones does not support
	cards, or keycards are provided, they shall have an		electronic pass cards and/or
	orientation that is tactilely discernible if orientation is		identification badges.
	important to further use of the ticket, fare card, or keycard.		
407.8.1	Vertical Reference Plane. Operable parts shall be positioned	Supports	
	for a side reach or a forward reach determined with respect		
	to a vertical reference plane. The vertical reference plane		
	shall be located in conformance to 407.8.2 or 407.8.3.		
407.3.3	Numeric Keys. Where provided, numeric keys shall be	Supports	
	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	-	
407.8.1.1	Vertical Plane for Side Reach. Where a side reach is	Supports	
	provided, the vertical reference plane shall be 48 inches		
	(1220 mm) long minimum.		

407.8.1.2	Vertical Plane for Forward Reach. Where a forward reach is provided, the vertical reference plane shall be 30 inches (760 mm) long minimum.	Supports
407.8.2	Side Reach. Operable parts of ICT providing a side reach shall conform to 407.8.2.1 or 407.8.2.2. The vertical reference plane shall be centered on the operable part and placed at the leading edge of the maximum protrusion of the ICT within the length of the vertical reference plane. Where a side reach requires a reach over a portion of the ICT, the height of that portion of the ICT shall be 34 inches (865 mm) maximum.	Supports
407.8.2.1	Unobstructed Side Reach. Where the operable part is located 10 inches (255 mm) or less beyond the vertical reference plane, the operable part shall be 48 inches (1220 mm) high maximum and 15 inches (380 mm) high minimum above the floor.	Supports
407.8.2.2	Obstructed Side Reach. Where the operable part is located more than 10 inches (255 mm), but not more than 24 inches (610 mm), beyond the vertical reference plane, the height of the operable part shall be 46 inches (1170 mm) high maximum and 15 inches (380 mm) high minimum above the floor. The operable part shall not be located more than 24 inches (610 mm) beyond the vertical reference plane.	Supports
407.8.3	Forward Reach. Operable parts of ICT providing a forward reach shall conform to 407.8.3.1 or 407.8.3.2. The vertical reference plane shall be centered, and intersect with, the operable part. Where a forward reach allows a reach over a portion of the ICT, the height of that portion of the ICT shall be 34 inches (865 mm) maximum.	Supports
407.8.3.1	Unobstructed Forward Reach. Where the operable part is located at the leading edge of the maximum protrusion within the length of the vertical reference plane of the ICT, the operable part shall be 48 inches (1220 mm) high maximum and 15 inches (380 mm) high minimum above the floor.	Supports

407.8.3.2	Obstructed Forward Reach. Where the operable part is	Supports	
	located beyond the leading edge of the maximum protrusion		
	within the length of the vertical reference plane, the operable		
	part shall conform to 407.8.3.2. The maximum allowable		
	forward reach to an operable part shall be 25 inches (635		
	mm).		
407.8.3.2.1	Operable Part Height for ICT with Obstructed Forward	Supports	
	Reach. The height of the operable part shall conform to		
	- For operable part height of 48 inches (1220 mm) maximum,		
	reach depth is Less than 20 inches (510 mm)		
	- For operable part height of 44 inches (1120 mm) maximum,		
	reach depth is 20 inches (510 mm) to 25 inches (635 mm)		
407.8.3.2.2	Knee and Toe Space under ICT with Obstructed Forward	Supports	
	Reach. Knee and toe space under ICT shall be 27 inches		
	(685 mm) high minimum, 25 inches (635 mm) deep		
	maximum, and 30 inches (760 mm) wide minimum and shall		
	be clear of obstructions.		
408	Display Screens	Supports	
400.4		0 mm t	
408.1	General. Where provided, display screens shall conform to 408.	Supports	
408.2	Visibility. Where stationary ICT provides one or more display	Supports	
	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.		
408.3	Flashing. Where ICT emits lights in flashes, there shall be no	Supports	
	more than three flashes in any one-second period.		
409	Status Indicators	Supports	
409.1	General. Where provided, status indicators shall be	Supports	The locking and toggle keys (e.g.
	discernible visually and by touch or sound.		Volume, Mute, and Hold Keys) have
		_	visual and audible alert.
410	Color Coding	Supports	

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	
411	Audible Signals	Supports	
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	Supports	
412.1	General. ICT that provides two-way voice communication shall conform to 412.	Supports	
412.2	Volume Gain. ICT that provides two-way voice communication shall conform to 412.2.1 or 412.2.2.	Supports	
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.	Supports	
412.2.2	Volume Gain for Non-Wireline ICT. A method for increasing volume shall be provided for non-wireline ICT.	Not Applicable	8800 Series phones are wireline phones.
412.3	Interference Reduction and Magnetic Coupling. Where ICT delivers output by a handset or other type of audio transducer that is typically held up to the ear, ICT shall reduce interference with hearing technologies and provide a means for effective magnetic wireless coupling in conformance with 412.3.1 or 412.3.2.	Supports	Cisco phones meets FCC Part 68 requirements for Hearing Aid Compatibility (HAC).
412.3.1	Wireless Handsets. ICT in the form of wireless handsets shall conform to ANSI/IEEE C63.19-2011	Not Applicable	8800 Series phones have wireline handsets.
412.3.2	Wireline Handsets. ICT in the form of wireline handsets, including cordless handsets, shall conform to TIA-1083-B	Supports	
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	Supports	

412.5	Real-Time Text Functionality	Not Applicable	Reserved for future.
412.6	Caller ID. Where provided, caller identification and similar telecommunications functions shall be visible and audible.	Supports	
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.	Supports	
412.8	Legacy TTY Support. ICT equipment or systems with two- way voice communication that do not themselves provide TTY functionality shall conform to 412.8.	Supports	
412.8.1	TTY Connectability. ICT shall include a standard non- acoustic connection point for TTYs.	Supports	Most TTY's that permit an electronic, non-acoustic connection to the telephone network do so through an RJ-11 analog telephone line. The Cisco ATA-186 FXS port may be used as an adjunct to the IP phone, to provide the RJ-11 analog line; any other Cisco voice gateway with FXS port may also be used.
412.8.2	Voice and Hearing Carry Over. ICT shall provide a microphone capable of being turned on and off to allow the user to intermix speech with TTY use.	Supports	
412.8.3	Signal Compatibility. ICT shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols where the system interoperates with the Public Switched Telephone Network (PSTN).	Supports	The Baudot tones used by U.S. standard TTY's are transmitted and received reliably G.711 is the recommended codec for TTY devices.
412.8.4	Voice Mail and Other Messaging Systems. Where provided, voice mail, auto-attendant, interactive voice response, and caller identification systems shall be usable with a TTY.	Not Applicable	This requirement applies only to voice mail, auto-attendant, and interactive voice response systems.
413	Closed Caption Processing Technologies	Not Applicable	The clauses 413 is applicable to ICT intended for multimedia content (synchronized media).
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	Not Applicable	The clauses 414 is applicable to ICT intended for multimedia content (synchronized media).
414.1	General. Where ICT displays or processes video with synchronized audio, ICT shall provide audio description processing technology conforming to 414.1.1 or 414.1.2.	Not Applicable	
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	Not Applicable	The clauses 415 is applicable to ICT intended for multimedia content (synchronized media).
415.1	General. Where ICT displays video with synchronized audio, ICT shall provide user controls for closed captions and audio descriptions conforming to 415.1.	Not Applicable	
415.1.1	Caption Controls. Where ICT provides operable parts for volume control, ICT shall also provide operable parts for caption selection.	Not Applicable	
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	

Criteria	Description	Status	Remarks and Explanations
1.1.1 (A)	Non text content	Supports	
1.2.1 (A)	Audio-only and Video-only (Prerecorded)	Not Applicable	No audio-only or video-only content.
1.2.2 (A)	Captions (Prerecorded)	Not Applicable	No audio or video content.
1.2.3 (A)	Audio Description or Media Alternative (Prerecorded)	Not Applicable	No audio or video content.
1.2.4 (AA)	Captions (Live)	Not Applicable	No live audio or video content.
1.2.5 (AA)	Audio Description (Prerecorded)	Not Applicable	No audio or video content.
1.3.1 (A)	Info and Relationships	Supports	
1.3.2 (A)	Meaningful Sequence	Supports	
1.3.3 (A)	Sensory Characteristics	Supports	
1.4.1 (A)	Use of Color	Supports	
1.4.2 (A)	Audio Control	Supports	
1.4.3 (AA)	Contrast (Minimum)	Supports	
1.4.4 (AA)	Resize Text	Supports	
1.4.5 (AA)	Images of Text	Supports	
2.1.1 (A)	Keyboard	Supports	
2.1.2 (A)	No Keyboard Trap	Supports	
2.2.1 (A)	Timing Adjustable	Supports	
2.2.2 (A)	Pause, Stop, Hide	Supports	
2.3.1 (A)	Three Flashes or Below Threshold	Supports	
2.4.1 (A)	Bypass Blocks	Not Applicable	Not required for non-Web documentation
2.4.2 (A)	Page Titled	Supports	
2.4.3 (A)	Focus Order	Supports	
2.4.4 (A)	Link Purpose (In Context)	Supports	
2.4.5 (AA)	Multiple Ways	Not Applicable	Not required for non-Web documentation
2.4.6 (AA)	Headings and Labels	Supports	
2.4.7 (AA)	Focus Visible	Supports	
3.1.1 (A)	Language of Page	Supports	
3.1.2 (AA)	Language of Parts	Supports	

W3C WCAG 2.0 Level A and AA for Documentation – Detail

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3.2.1 (A)	On Focus	Supports	
3.2.2 (A)	On Input	Supports	
3.2.3 (AA)	Consistent Navigation	Not Applicable	Not required for non-Web documentation
3.2.4 (AA)	Consistent Identification	Not Applicable	Not required for non-Web documentation
3.3.1 (A)	Error Identification	Supports	
3.3.2 (A)	Labels or Instructions	Supports	
3.3.3 (AA)	Error Suggestion	Supports	
3.3.4 (AA)	Error Prevention (Legal, Financial, Data)	Supports	
4.1.1 (A)	Parsing	Supports	
4.1.2 (A)	Name, Role, Value	Supports	

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Section 508	Chapter 6:	Support	Documentation	and Servic	es – Detail
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Criteria	Description	Status	Remarks and Explanations
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.	Supports	
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.	Supports	See "WCAG 2.0 Level A and AA" table for documentation.
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.	Supports	
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	Contact Cisco accessibility team via email, <u>accessibility@cisco.com</u> for more information.
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	Cisco conforms through equal facilitation. Customers may reach Cisco Technical Assistance Center (TAC) via Phone, Email or Web Form. All cases open through email or web are opened as Priority 3 cases. All Priority 1 or Priority 2 case can only be opened via the telephone. TTY users must call the Text Relay Service (TRS) by dialing 711 or their state Video Relay Service (VRS) and have the TRS agent contact Cisco TAC via voice.

Supporting Feature (Status) Terminology

The result of "Accessibility Testing" assists in the determination of the Supporting Features.

Supporting Features or Status	Description
Supports	Use this language when you determine the product fully meets the intent of the criteria or meets with equivalent facilitation. If the product meets equivalent facilitation, please document it in the "Remarks and Explanations" column.
Supports with Exceptions	Use this language when you determine the product does not fully meet the intent of the criteria, but provides some level of access relative to the criteria. Please document the exception in the "Remarks and Explanations" column.
Does not Support	Use this language when you determine the product does not meet the intent of the criteria. Please document the reason in the "Remarks and Explanations" column.
Not Applicable	Use this language when you determine that the criteria do not apply to the specific product. For example, many web applications do not have video content the "Not Applicable" can be used. Please state, "The application does not have any video content" in the "Remarks and Explanations" column.
Not Evaluated	Use this language when the product has not been evaluated.

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