

Mapbox GL-JS Accessibility Conformance Report

VPAT® Version 2.3 (Revised) – April 2019

Completed March 2020

Company Name: Mapbox, Inc.

Name of Product/Version: This report covers several Mapbox APIs to include Maps API, Directions API, Navigation API and Search API.

Product Description: Maps reveal the world around us — from where your friends are, to who’s winning the local elections to where your business is making traction. Mapbox provides you with the map design tools and mapping libraries needed to make dynamic, performant, and customized maps that suit your needs.

Mapbox maps use more than 130 multi-validated sources for a comprehensive, precise map all over the globe. Our fast, stable, and highly available Maps APIs support more than 5 billion requests per day from global companies such as Facebook, The Weather Company, Adobe, Snap, and Tableau.

Our industry-leading map renderer has been in development for over 10 years and uses the latest in OpenGL technologies for on-device rendering. This leads to highly performant maps with maximum flexibility, allowing you to dynamically style and optimize your map based on your custom data.

Report Date: March 23, 2020

Contact Information: Specific inquiries may be emailed to help@mapbox.com, or mailed to Mapbox at 50 Beale Street, San Francisco, CA 94105

Purpose: The Voluntary Product Accessibility Template (VPAT) also known as an Accessibility Conformance Report (ACR)- is a template used to document a product’s conformance with accessibility standards and guidelines. The purpose of the VPAT is to assist customers and buyers in making preliminary assessments regarding the availability of commercially available Information and Communications Technology (ITC) products and services with features that support accessibility.

Record of Changes: The following table documents changes to this document.

Version	Date	Description of Changes
1.0	March 23, 2020	Initial version

Applicable Standards/Guidelines: This report covers the degree of conformance for the following accessibility standard/guidelines

Guideline	Included in Report
Web Content Accessibility Guidelines 2.0	Level A (Yes) Level AA (Yes) Level AAA (No)

Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018	(Yes)
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Evaluation Methods Used: The terms used in the conformance level information are defined as follows

Response	Definition
Supports	The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
Partially Supports	Some functionality of the product does not meet the criterion.
Does Not Support	The majority of product functionality does not meet the criterion.
Not Applicable	The criterion is not relevant to the product.
Not Evaluated	The product has not been evaluated against the criterion.

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks
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 for the situations listed below. (Level A) • Controls, Input: If non-text content is a control or accepts user input, then it has a name that describes its purpose. (Refer to Guideline 4.1 for additional requirements for controls and content that accepts user input.) • Time-Based Media: If non-text content is time-based media, then text alternatives at least provide descriptive identification of the non-text content. (Refer to Guideline 1.2 for additional requirements for media.) • Test: If non-text content is a test or exercise that would be invalid if presented in text, then text alternatives at least provide descriptive identification of the non-text content. • Sensory: If non-text content is primarily intended to create a specific sensory experience, then text alternatives at least provide descriptive identification of the non-text content. • CAPTCHA: If the purpose of non-text content is to confirm that content is being accessed by a person rather than a computer, then text alternatives that identify and describe the purpose of the non-text content are provided, and alternative forms of CAPTCHA using output modes for different types of sensory perception are	Supports	Mapbox SDKs give application designers the ability to create alternative text. Note: Mapbox GL-JS SDK contains geographic information system (GIS) technology that captures, manages, and analyzes complex and dynamic data through digital maps. As such, some GIS functions may not have equivalent non-text elements.

provided to accommodate different disabilities. • Decoration, Formatting, Invisible: If non-text content is pure decoration, is used only for visual formatting, or is not presented to users, then it is implemented in a way that it can be ignored by assistive technology.		
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: (Level A) • 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.	Not applicable	
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. (Level A)	Not applicable	
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. (Level A)	Not applicable	
1.3.1 Info and Relationships: Information, structure, and relationships conveyed	Supports	Mapbox GL-JS SDK uses semantically-correct markup so that

through presentation can be programmatically determined or are available in text. (Level A)		information, structure, and relationships can be understood independent of presentation.
1.3.2 Meaningful Sequence: When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined. (Level A)	Supports	The accessibility hierarchy is logical
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. (Level A)	Supports	Instructions provided do not refer to things solely based on their sensory characteristics such as shape, size, visual location, orientation, color, or sound
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. (Level A)	Supports	Information conveyed by color is available in alternative formats, such as shape, text, font weight Information conveyed by color has a contrast ratio of at least 3:1
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. (Level A)	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. (Level A) <i>Note 1: This exception relates to the underlying function, not the input technique. For example, if using handwriting to enter text, the input technique (handwriting) requires</i>	Supports	Keyboard or device interaction is governed by the support of the browser and web pages.

<i>path-dependent input but the underlying function (text input) does not.</i> <i>Note 2: This does not forbid and should not discourage providing mouse input or other input methods in addition to keyboard operation.</i>		
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. (Level A) <i>Note: Since any content that does not meet this success criterion can interfere with a user's ability to use the whole page, all content on the Web page (whether it is used to meet other success criteria or not) must meet this success criterion. See Conformance Requirement 5: Non-Interference.</i>	Supports	Keyboard or device interaction is governed by the support of the browser and web pages.
2.2.1 Timing Adjustable: For each time limit that is set by the content, at least one of the following is true: (Level A) • Turn off: The user is allowed to turn off the time limit before encountering it; or • Adjust: The user is allowed to adjust the time limit before encountering it over a wide range that is at least ten times the length of the default setting; or • Extend: The user is warned before time expires and given at least 20 seconds to extend the time limit with a simple action (for example, "press the space bar"), and the user is allowed to extend the time limit at least ten times; or • Real-time Exception: The time limit is a required part of a	Not Applicable	Time limits are not used

real-time event (for example, an auction), and no alternative to the time limit is possible; or ● Essential Exception: The time limit is essential and extending it would invalidate the activity; or ● 20 Hour Exception: The time limit is longer than 20 hours. <i>Note: This success criterion helps ensure that users can complete tasks without unexpected changes in content or context that are a result of a time limit. This success criterion should be considered in conjunction with Success Criterion 3.2.1, which puts limits on changes of content or context as a result of user action.</i>		
2.2.2 Pause, Stop, Hide: For moving, blinking, scrolling, or auto-updating information, all of the following are true: (Level A) ● 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. <i>Note 1: For requirements related to flickering or flashing content, refer to Guideline 2.3.</i>	Not applicable	

<i>Note 2: Since any content that does not meet this success criterion can interfere with a user's ability to use the whole page, all content on the Web page (whether it is used to meet other success criteria or not) must meet this success criterion. See Conformance Requirement 5: Non-Interference.</i> <i>Note 3: Content that is updated periodically by software or that is streamed to the user agent is not required to preserve or present information that is generated or received between the initiation of the pause and resuming presentation, as this may not be technically possible, and in many situations could be misleading to do so.</i> <i>Note 4: An animation that occurs as part of a preload phase or similar situation can be considered essential if interaction cannot occur during that phase for all users and if not indicating progress could confuse users or cause them to think that content was frozen or broken.</i>		
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. (Level A) <i>Note: Since any content that does not meet this success criterion can interfere with a user's ability to use the whole page, all content on the Web page (whether it is used to meet other success criteria or not) must meet this success criterion. See Conformance Requirement 5: Non-Interference.</i>	Not applicable	No portion of the screen flickers or flashes with a frequency between 2 Hz and 55 Hz
2.4.1 Bypass Blocks: A mechanism is available to bypass blocks of content that are repeated on multiple Web pages.	Not applicable	Mapbox GL-JS SDK does not behave as a set of software programs as the

(Level A)		term is defined. Therefore this guideline does not apply.
2.4.2 Page Titled: Web pages have titles that describe topic or purpose. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
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. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
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. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
3.1.1 Language of Page: The default human language of each Web page can be programmatically determined. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
3.2.1 On Focus: When any component receives focus, it does not initiate a change of context. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
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. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
3.3.1 Error Identification: If an input error is automatically detected, the item that is	Supports	Mapbox SDKs give users the ability to create their own alternative content.

in error is identified and the error is described to the user in text. (Level A)		Keyboard or device interaction is governed by the support of the browser and web pages.
3.3.2 Labels or Instructions: Labels or instructions are provided when content requires user input. (Level A)	Supports	Mapbox SDKs give users the ability to create their own alternative content. Keyboard or device interaction is governed by the support of the browser and web pages.
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. (Level A) <i>Note: Start and end tags that are missing a critical character in their formation, such as a closing angle bracket or a mismatched attribute value quotation mark are not complete.</i>	Supports	Is the markup language properly structured? Yes.
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 . (Level A) <i>Note: This success criterion is primarily for Web authors who develop or script their own user interface components. For example, standard HTML controls already meet this success criterion when used according to specification.</i>		State information, properties, and values are programmatically exposed for user interface components Event notification of changes to names, states, properties, and values is available to assistive technologies

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks
1.2.4 Captions (Live): Captions are provided for all live audio content in synchronized media . (Level AA)	Not applicable	
1.2.5 Audio Description (Prerecorded): Audio description is provided for all prerecorded video content in synchronized media . (Level AA)	Not applicable	
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: (Level AA) • 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.	Supported	Mapbox SDKs give users the ability to create their own alternative content. Mapbox SDKs give users the ability to define the visual presentation of text. Keyboard or device interaction is governed by the support of the browser and web pages.
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. (Level AA)	Supported	Mapbox SDKs give users the ability to create their own content. Keyboard or device interaction is governed by the support of the browser and web pages.
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: (Level AA)	Supported	Mapbox SDKs give users the ability to create their own content. Keyboard or device interaction is governed by the support of the browser and web pages.

• 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. <i>Note: Logotypes (text that is part of a logo or brand name) are considered essential.</i>		
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 . (Level AA)	Supported	Mapbox SDKs give users the ability to create their own content.
2.4.6 Headings and Labels: Headings and labels describe topic or purpose. (Level AA)	Supported	Mapbox SDKs give users the ability to create their own content.
2.4.7 Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible. (Level AA)	Supported	Keyboard or device interaction is governed by the support of the browser and web pages.
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. (Level AA)	Supported	Mapbox SDKs give users the ability to create their own content.
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. (Level AA)	Not applicable	Mapbox GL-JS SDK does not behave as a set of software programs as the term is defined. Therefore this guideline does not apply.
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. (Level AA)	Supports	Where suggestions for fixing an input error are known, they are provided to the user

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: (Level AA) 1. Reversible: Submissions are reversible. 2. Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. 3. Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.	Not applicable	Mapbox GL-JS SDK does not behave as a set of software programs as the term is defined. Therefore this guideline does not apply.
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Table 3: Success Criteria, Level AAA

Criteria	Conformance Level	Remarks
1.2.6 Sign Language (Prerecorded): Sign language interpretation is provided for all prerecorded audio content in synchronized media. (Level AAA)	Not applicable	
1.2.7 Extended Audio Description (Prerecorded): Where pauses in foreground audio are insufficient to allow audio descriptions to convey the sense of the video, extended audio description is provided for all prerecorded video content in synchronized media. (Level AAA)	Not applicable	
1.2.8 Media Alternative (Prerecorded): An alternative for time-based media is provided for all prerecorded synchronized media and for all prerecorded video-only	Not applicable	

media. (Level AAA)		
1.2.9 Audio-only (Live): An alternative for time-based media that presents equivalent information for live audio-only content is provided. (Level AAA)	Not applicable	
1.4.6 Contrast (Enhanced): The visual presentation of text and images of text has a contrast ratio of at least 7:1, except for the following: (Level AAA) • Large Text: Large-scale text and images of large-scale text have a contrast ratio of at least 4.5:1; • 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.	Not applicable	
1.4.7 Low or No Background Audio: For prerecorded audio-only content that (1) contains primarily speech in the foreground, (2) is not an audio CAPTCHA or audio logo, and (3) is not vocalization intended to be primarily musical expression such as singing or rapping, at least one of the following is true: (Level AAA) • No Background: The audio does not contain background sounds. • Turn Off: The background sounds can be turned off. • 20 dB: The background sounds are at least 20 decibels lower than the foreground speech content, with the exception of occasional sounds that last for only one or two seconds. Note: Per the definition of	Not applicable	

"decibel," background sound that meets this requirement will be approximately four times quieter than the foreground speech content.		
1.4.8 Visual Presentation: For the visual presentation of blocks of text , a mechanism is available to achieve the following: (Level AAA) 1. Foreground and background colors can be selected by the user. 2. Width is no more than 80 characters or glyphs (40 if CJK). 3. Text is not justified (aligned to both the left and the right margins). 4. Line spacing (leading) is at least space-and-a-half within paragraphs, and paragraph spacing is at least 1.5 times larger than the line spacing. 5. Text can be resized without assistive technology up to 200 percent in a way that does not require the user to scroll horizontally to read a line of text on a full-screen window.	Not applicable	
1.4.9 Images of Text (No Exception): Images of text are only used for pure decoration or where a particular presentation of text is essential to the information being conveyed. (Level AAA) Note: Logotypes (text that is part of a logo or brand name) are considered essential.	Not applicable	
2.1.3 Keyboard (No Exception): All functionality of the content is operable through a keyboard interface without requiring specific timings for individual keystrokes. (Level AAA)	Not applicable	
2.2.3 No Timing: Timing is not an essential part of the event or activity presented by	Not applicable	

the content, except for non-interactive synchronized media and real-time events . (Level AAA)		
2.2.4 Interruptions: Interruptions can be postponed or suppressed by the user, except interruptions involving an emergency . (Level AAA)	Not applicable	
2.2.5 Re-authenticating: When an authenticated session expires, the user can continue the activity without loss of data after re-authenticating. (Level AAA)	Not applicable	
2.3.2 Three Flashes: Web pages do not contain anything that flashes more than three times in any one second period. (Level AAA)	Not applicable	
2.4.8 Location: Information about the user's location within a set of Web pages is available. (Level AAA)	Not applicable	
2.4.9 Link Purpose (Link Only): A mechanism is available to allow the purpose of each link to be identified from link text alone, except where the purpose of the link would be ambiguous to users in general . (Level AAA)	Not applicable	
2.4.10 Section Headings: Section headings are used to organize the content. (Level AAA) <i>Note 1: "Heading" is used in its general sense and includes titles and other ways to add a heading to different types of content.</i> <i>Note 2: This success criterion covers sections within writing, not user interface components. User Interface components are covered under Success Criterion 4.1.2.</i> 3.1.3 Unusual Words: A mechanism is available for identifying specific definitions of words or phrases used in an unusual or restricted way, including idioms and jargon. (Level AAA)	Not applicable	

3.1.4 Abbreviations: A mechanism for identifying the expanded form or meaning of abbreviations is available. (Level AAA)	Not applicable	
3.1.5 Reading Level: When text requires reading ability more advanced than the lower secondary education level after removal of proper names and titles, supplemental content , or a version that does not require reading ability more advanced than the lower secondary education level, is available. (Level AAA)	Not applicable	
3.1.6 Pronunciation: A mechanism is available for identifying specific pronunciation of words where meaning of the words, in context, is ambiguous without knowing the pronunciation. (Level AAA)	Not applicable	
3.2.5 Change on Request: Changes of context are initiated only by user request or a mechanism is available to turn off such changes. (Level AAA)	Not applicable	
3.3.5 Help: Context-sensitive help is available. (Level AAA)	Not applicable	
3.3.6 Error Prevention (All): For Web pages that require the user to submit information, at least one of the following is true: (Level AAA) 1. Reversible: Submissions are reversible. 2. Checked: Data entered by the user is checked for input errors and the user is provided an opportunity to correct them. 3. Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.	Not applicable	

Revised Section 508 Report

Notes:

Chapter 3: Functional Performance Criteria (FPC)

Notes:

Criteria	Conformance Level	Remarks
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
302.7 With Limited Manipulation: Where a manual mode of operation is provided, ICT shall provide at least one mode of	Not applicable	The product does not rely on equivalent functionality, and all

operation that does not require fine motor control or simultaneous manual operations.		aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.
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.	Not applicable	The product does not rely on equivalent functionality, and all aspects are addressed by the technical standards.

Chapter 4: [Hardware](#)

Criteria	Conformance Level	Remarks
402 Closed Functionality	Heading cell – no response required	Heading cell – no response required
402.1 General	Heading cell – no response required	Heading cell – no response required
402.2 Speech-Output Enabled	Heading cell – no response required	Heading cell – no response required
402.2.1 Information Displayed On-Screen: Speech output shall be provided for all information displayed on-screen.	N/A	Mapbox platform is only software
402.2.2 Transactional Outputs: Where transactional outputs are provided, the speech output shall audibly provide all information necessary to verify a transaction.	N/A	Mapbox platform is only software

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.	N/A	Mapbox platform is only software
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.	N/A	Mapbox platform is only software
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.	N/A	Mapbox platform is only software
402.3 Volume	Heading cell – no response required	Heading cell – no response required
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.	N/A	Mapbox platform is only software
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.	N/A	Mapbox platform is only software

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.	N/A	Mapbox platform is only software
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).	N/A	Mapbox platform is only software
<u>403 Biometrics</u>	Heading cell – no response required	Heading cell – no response required
1120 149 0601Where provided, biometrics shall not be the only means for user identification or control. <i>EXCEPTION: Where at least two biometric options that use different biological characteristics are provided, ICT shall be permitted to use biometrics as the only means for user identification or control.</i>	N/A	Mapbox platform is only software
<u>404 Preservation of Information Provided for Accessibility</u>	Heading cell – no response required	Heading cell – no response required
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.	N/A	Mapbox platform is only software
<u>405 Privacy</u>	Heading cell – no response required	Heading cell – no response required

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.	N/A	Mapbox platform is only software
<u>406 Standard Connections</u>	Heading cell – no response required	Heading cell – no response required
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.	N/A	Mapbox platform is only software
<u>407 Operable Parts</u>	Heading cell – no response required	Heading cell – no response required
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.	N/A	Mapbox platform is only software
<u>407.3 Input Controls</u>	Heading cell – no response required	Heading cell – no response required
407.3.1 Tactilely Discernible	N/A	Mapbox platform is only software
407.3.2 Alphabetic Keys	N/A	Mapbox platform is only software
407.3.3 Numeric Keys	N/A	Mapbox platform is only software
407.4 Key Repeat	N/A	Mapbox platform is only software
407.5 Timed Response	N/A	Mapbox platform is only software

407.6 Operation	N/A	Mapbox platform is only software
407.7 Tickets, Fare Cards, and Keycards	N/A	Mapbox platform is only software
<i>407.8 Reach Height and Depth</i>	Heading cell – no response required	Heading cell – no response required
407.8.1 Vertical Reference Plane	N/A	Mapbox platform is only software
407.8.1.1 Vertical Plane for Side Reach	N/A	Mapbox platform is only software
407.8.1.2 Vertical Plane for Forward Reach	N/A	Mapbox platform is only software
407.8.2 Side Reach	N/A	Mapbox platform is only software
407.8.2.1 Unobstructed Side Reach	N/A	Mapbox platform is only software
407.8.2.2 Obstructed Side Reach	N/A	Mapbox platform is only software
407.8.3 Forward Reach	N/A	Mapbox platform is only software
407.8.3.1 Unobstructed Forward Reach	N/A	Mapbox platform is only software
407.8.3.2 Obstructed Forward Reach	N/A	Mapbox platform is only software
407.8.3.2.1 Operable Part Height for ICT with Obstructed Forward Reach	N/A	Mapbox platform is only software
407.8.3.2.2 Knee and Toe Space under ICT with Obstructed Forward Reach	N/A	Mapbox platform is only software
<u>408 Display Screens</u>	Heading cell – no response required	Heading cell – no response required
408.2 Visibility	N/A	Mapbox platform is only software

408.3 Flashing	N/A	Mapbox platform is only software
<u>409 Status Indicators</u>	Heading cell – no response required	Heading cell – no response required
409.1 General	N/A	Mapbox platform is only software
<u>410 Color Coding</u>	Heading cell – no response required	Heading cell – no response required
410.1 General	N/A	Mapbox platform is only software
<u>411 Audible Signals</u>	Heading cell – no response required	Heading cell – no response required
411.1 General	N/A	Mapbox platform is only software
<u>412 ICT with Two-Way Voice Communication</u>	Heading cell – no response required	Heading cell – no response required
<i>412.2 Volume Gain</i>	Heading cell – no response required	Heading cell – no response required
412.2.1 Volume Gain for Wireline Telephones	N/A	Mapbox platform is only software
412.2.2 Volume Gain for Non-Wireline ICT	N/A	Mapbox platform is only software
<i>412.3 Interference Reduction and Magnetic Coupling</i>	Heading cell – no response required	Heading cell – no response required
412.3.1 Wireless Handsets	N/A	Mapbox platform is only software
412.3.2 Wireline Handsets	N/A	Mapbox platform is only software
412.4 Digital Encoding of Speech	N/A	Mapbox platform is only software

412.5 Real-Time Text Functionality	N/A	Mapbox platform is only software
412.6 Caller ID	N/A	Mapbox platform is only software
412.7 Video Communication	N/A	Mapbox platform is only software
<i>412.8 Legacy TTY Support</i>	Heading cell – no response required	Heading cell – no response required
412.8.1 TTY Connectability	N/A	Mapbox platform is only software
412.8.2 Voice and Hearing Carry Over	N/A	Mapbox platform is only software
412.8.3 Signal Compatibility	N/A	Mapbox platform is only software
412.8.4 Voice Mail and Other Messaging Systems	N/A	Mapbox platform is only software
<u>413 Closed Caption Processing Technologies</u>	Heading cell – no response required	Heading cell – no response required
413.1.1 Decoding and Display of Closed Captions	N/A	Mapbox platform is only software
413.1.2 Pass-Through of Closed Caption Data	N/A	Mapbox platform is only software
<u>414 Audio Description Processing Technologies</u>	Heading cell – no response required	Heading cell – no response required
414.1.1 Digital Television Tuners	N/A	Mapbox platform is only software
414.1.2 Other ICT	N/A	Mapbox platform is only software

<u>415 User Controls for Captions and Audio Descriptions</u>	Heading cell – no response required	Heading cell – no response required
415.1.1 Caption Controls	N/A	Mapbox platform is only software
415.1.2 Audio Description Controls	N/A	Mapbox platform is only software

Chapter 5: [Software](#)

Notes:

Criteria	Conformance Level	Remarks
501.1 Scope – Incorporation of WCAG 2.0 AA	See <u>WCAG 2.0</u> section	See information in WCAG 2.0 section
<u>502 Interoperability with Assistive Technology</u>	Heading cell – no response required	Heading cell – no response required
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.	Not applicable	The product does not have assistive technology features.
502.2.2 No Disruption of Accessibility Features: Software shall not disrupt platform features that are defined in the platform documentation as accessibility features.	Not applicable	The product does not have assistive technology features.
502.3 Accessibility Services	Heading cell – no response required	Heading cell – no response required
502.3.1 Object Information: The object role, state(s), properties, boundary, name, and description shall be programmatically determinable.	Not applicable	The product does not have assistive technology features.
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.	Not applicable	The product does not have assistive technology features.
502.3.3 Row, Column, and Headers: If an object is in a data table, the occupied rows and columns, and any headers associated	Not applicable	The product does not have assistive technology features.

with those rows or columns, shall be programmatically determinable.		
502.3.4 Values: 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.	Not applicable	The product does not have assistive technology features.
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.	Not applicable	The product does not have assistive technology features.
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.	Not applicable	The product does not have assistive technology features.
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.	Not applicable	The product does not have assistive technology features.
502.3.8 Text: The content of text objects, text attributes, and the boundary of text rendered to the screen, shall be programmatically determinable.	Not applicable	The product does not have assistive technology features.
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.	Not applicable	The product does not have assistive technology features.
502.3.10 List of Actions: A list of all actions that can be executed on an object shall be programmatically determinable.	Not applicable	The product does not have assistive technology features.
502.3.11 Actions on Objects: Applications shall allow assistive technology to programmatically execute available actions on objects.	Not applicable	The product does not have assistive technology features.
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.	Not applicable	The product does not have assistive technology features.
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,	Not applicable	The product does not have assistive technology features.

including through the use of assistive technology.		
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.	Not applicable	The product does not have assistive technology features.
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: 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.	Not applicable	The product does not have assistive technology features.
<u>503 Applications</u>	Heading cell – no response required	Heading cell – no response required
503.2 User Preferences: Applications shall permit user preferences from platform settings for color, contrast, font type, font size, and focus cursor. EXCEPTION: Applications that are designed to be isolated from their underlying platform software, including Web applications, shall not be required to conform to 503.2.	Not applicable	
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.	Not applicable	

503.4 User Controls for Captions and Audio Description	Heading cell – no response required	Heading cell – no response required
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	
<u>504 Authoring Tools</u>	Heading cell – no response required	Heading cell – no response required
504.2 Content Creation or Editing (if not authoring tool, enter “not applicable”)	See WCAG 2.0 section	See information in WCAG 2.0 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	The product does not have assistive technology features.
504.4 Templates: Where templates are provided, templates allowing content creation that conforms to Level A and	Not applicable	

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.		
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Chapter 6: Support Documentation and Services

Notes:

Criteria	Conformance Level	Remarks
601.1 Scope	Heading cell – no response required	Heading cell – no response required
<u>602 Support Documentation</u>	Heading cell – no response required	Heading cell – no response required
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.	Not applicable	
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).	See WCAG 2.0 section	See information in WCAG 2.0 section
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.	Not applicable	Product documentation is in electronic format.
<u>603 Support Services</u>	Heading cell – no response required	Heading cell – no response required
603.2 Information on Accessibility and Compatibility Features: ICT support services shall include information on the	Supported	

accessibility and compatibility features required by 602.2.		
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.	Supported	

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