



University of Florida McTrans Center Accessibility Conformance Report

Revised Section 508 Edition

(Based on VPAT® Version 2.4)

Name of Product/Version: Highway Capacity Software Version 8.2 (HCS2023)

Report Date: November 15, 2022

Product Description: The Highway Capacity Software (*HCS*) is developed and maintained by *McTrans* as part of its user-supported software maintenance as a faithful implementation of the Highway Capacity Manual (HCM) procedures. It is a desktop application that requires input of data. This release of the Highway Capacity Software (*HCS2023*) includes updated modules to implement the Highway Capacity Manual 7th Edition procedures for Signalized Intersections, Urban Streets, Alternative Intersections, Roundabouts, Two-Way Stop Control and All-Way Stop Control, Freeway Facilities, Basic Freeway Segments, Freeway Weaving Segments, Freeway Merge & Diverge Segments, and Multilane Highways.

McTrans Center, University of Florida

P.O. Box 116585, Gainesville, FL 32611-6585

Phone: 1-800-226-1013 Fax: 352-392-6629

Web: <https://mctrans.ce.ufl.edu/> Email: mctrans@ce.ufl.edu

Evaluation Methods Used: Testing is based on general product knowledge.

Applicable Standards/Guidelines:

This report covers the degree of conformance for the following accessibility standards/guidelines:

Standard/Guideline	Included in Report
Web Content Accessibility Guidelines 2.0	Level A (No) Level AA (No) Level AAA (No)
Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018	(Yes)

Revised Section 508 Report

Notes: Hardware section removed; not applicable to HCS software.

Chapter 3: [Functional Performance Criteria \(FPC\)](#)

Notes: None

Criteria	Conformance Level	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.	Does Not Support	All modules within HCS require vision to enter data inputs and generate results.
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.	Partially 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.	Not Applicable	
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	
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	
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.	Partially Supports	Motor skills such as typing on a keyboard and using a computer mouse are necessary for software use.
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.	Does Not Support	Traffic engineering terminology and concepts are necessary to understand and interpret software use and results.

Chapter 4: [Hardware](#)

Notes: Not applicable; section removed

Chapter 5: [Software](#)

Notes: None

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope. Incorporation of WCAG 2.0 AA	Not Applicable	

<i>502 Interoperability with Assistive Technology</i>		
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	
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	
<i>502.3 Accessibility Services</i>		
502.3.1 Object Information. The object role, state(s), properties, boundary, name, and description shall be programmatically determinable.	Supports	Help provided for every feature
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	Data validation to ensure correct inputs
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	
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	
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	
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,	Supports	

text insertion point, and selection attributes of user interface components.		
502.3.13 Modification of Focus Cursor. Focus, text insertion point, and selection attributes that can be set by the user shall be capable of being set programmatically, including through the use of assistive technology.	Supports	
502.3.14 Event Notification. Notification of events relevant to user interactions, including but not limited to, changes in the component's state(s), value, name, description, or boundary, shall be available to assistive technology.	Supports	
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	
<i>503 Applications</i>		
503.2 User Preferences. Applications shall permit user preferences from platform settings for color, contrast, font type, font size, and focus cursor.	Partially Supports	Reports within modules allow zoom levels for better viewing of results with respect to font size.
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	
<i>503.4 User Controls for Captions and Audio Description</i>		
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	Not Applicable	

provide user controls for the selection of audio descriptions at the same menu level as the user controls for volume or program selection.		
<i>504 Authoring Tools</i>		
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.	Not Applicable	
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	
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](#)

Notes: None

Criteria	Conformance Level	Remarks and Explanations
<i>601.1 Scope</i>		
<i>602 Support Documentation</i>		

<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>Partially Supports</p>	<p>Chapter 4 not applicable; keyboard commands/shortcuts provided in help files and users' guides of modules</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>Not Applicable</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>Support can be provided via phone</p>
<p><i>603 Support Services</i></p>		
<p>603.2 Information on Accessibility and Compatibility Features. ICT support services shall include information on the accessibility and compatibility features required by 602.2.</p>	<p>Partially Supports</p>	<p>See Remarks and Explanations for 602.2</p>
<p>603.3 Accommodation of Communication Needs. Support services shall be provided directly to the user or through a referral to a point of contact. Such ICT support services shall accommodate the communication needs of individuals with disabilities.</p>	<p>Partially Supports</p>	<p>Accommodation via request on our support channels</p>