

ApexRMS Accessibility Conformance Report

Revised Section 508 Edition

(Based on VPAT[®] Version 2.5)

Name of Product/Version:

SyncroSim Desktop 2.5

Report Date:

July 11, 2024

Product Description:

SyncroSim Desktop is desktop software (non-web) that allows users to input geospatial and tabular data, run scenario-based scientific forecasts on their data, and visualize/export the results in proprietary formats. The software does this by providing users with a Graphical User Interface (GUI) to create/edit/save/delete their SyncroSim “Libraries”, execute forecasting simulations, and interact with the results. All features available in the GUI can also be accessed via a Command Line Interface which is provided with the software.

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Notes:

This ACR applies to the SyncroSim Desktop GUI only in its capacity as a software tool. This ACR does not formally evaluate SyncroSim Desktop as an Authoring Tool since its authorable content is in a proprietary format only useable within SyncroSim Desktop,

nor does it evaluate its Supporting Documentation since it is hosted externally on a separate web-based software and is not directly embedded within SyncroSim Desktop itself.

Evaluation Methods Used:

The criterion in this report were evaluated against SyncroSim Desktop 2.5 on a Lenovo ThinkPad T14 Gen 2 Laptop running Windows 10. Assistive technologies used in this evaluation include NVDA (screen reader), and the Windows screen magnification function. Where applicable, exclusive use of keyboard navigation was employed to test specific criteria.

Applicable Standards/Guidelines

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

Standard/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)

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 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. This can only be used in WCAG Level AAA criteria.

WCAG 2.0 Report

Tables 1 and 2 also document conformance with Revised Section 508:

- Chapter 5 – 501.1 Scope

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.0 Conformance Requirements](#).

Table 1: Success Criteria, Level A

Notes: WCAG 2.0 Criterion 2.4.1 “Bypass Blocks” is not applicable to non-web based software as per [E207.2 of the section 508 standards](#).

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 for the situations listed below.</p> <ul style="list-style-type: none"> • 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 	<p>Partially Supports</p>	<p>Provides sufficient text alternatives for the following non-text content:</p> <ul style="list-style-type: none"> • “Quick access” controls (Icon-buttons) at top of GUI. Name/Label alternatives supplied within the main menu-bar sub categories (File, Edit, Scenario, Window, Help). • Controls (Icon-buttons) for managing charts and maps within Library Explorer panel. Programmatically derive-able names supplied. • Maps and Charts generated post-simulation. Labels provided adjacent to each map and chart. <p>Does not provide sufficient text alternatives for the following non-text content:</p> <ul style="list-style-type: none"> • Controls (Icon-buttons) for changing configuration of displayed map/chart within the Visualization panel. Programmatically derived name is simply “Button” for all of them.

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<p>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 provided to accommodate different disabilities.</p> <ul style="list-style-type: none"> • 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. 		
<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. 	Not Applicable	Does not contain prerecorded audio-only or video-only media.
<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>	Not Applicable	Does not contain prerecorded audio content in synchronized media.
<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>	Not Applicable	Does not contain prerecorded video content in synchronized media.
<p>1.3.1 Info and Relationships: Information, structure, and relationships conveyed through presentation can</p>	Supports	All information, structure, and relationships conveyed through presentation are available

Criteria	Conformance Level	Remarks and Explanations
be programmatically determined or are available in text.		in text.
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	All content with meaningful sequences have programmatically determined correct reading sequences.
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.	Not Applicable	Does not contain instructions that rely solely on sensory characteristics.
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.	Partially Supports	Supported in all cases except for Maps generated post-simulation. Individual cell color (corresponding to state class and other parameters) not programmatically accessible or labeled.
1.4.2 Audio Control: If any audio in software 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	Does not contain any audio content.
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.	Partially Supports	Supported in all cases except for Maps/Charts generated post-simulation.
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.	Partially Supports	No keyboard traps exists, but navigating between components is achieved through potentially non-standard methods and is not explained to user: <ul style="list-style-type: none"> • CTRL+TAB required to switch between panels • ALT or F10 required to move focus to main menu bar
2.2.1 Timing Adjustable: For each time limit that is set by the content, at least one of the following is true: <ul style="list-style-type: none"> • Turn off: The user is allowed to turn off the time limit 	Not Applicable	Does not contain content that imposes a time limit on the user.

Criteria	Conformance Level	Remarks and Explanations
<p>before encountering it; or</p> <ul style="list-style-type: none"> • 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 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. 		
<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. <p><i>Note 1:</i> For requirements related to flickering or flashing content, refer to Guideline 2.3.</p> <p><i>Note 2:</i> Since any content that does not meet this success</p>	Supports	Does not contain content that moves, blinks, or scrolls. Progress update bars (auto-updating) displayed during simulations already conform since pausing them would indicate that the simulation has halted or failed. (See <i>Note 4</i> in criteria description)

Criteria	Conformance Level	Remarks and Explanations
<p>criteria can interfere with a user's ability to use the whole page, all content in the software (whether it is used to meet other success criteria or not) must meet this success criterion. See Conformance Requirement 5: Non-Interference.</p> <p><i>Note 3:</i> 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.</p> <p><i>Note 4:</i> 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.</p>		
<p><u>2.3.1 Three Flashes or Below Threshold:</u> The software does 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>	Not Applicable	Does not contain any content that flashes.
<p><u>2.4.1 Bypass Blocks:</u> A mechanism is available to bypass blocks of content that are repeated on multiple Web pages.</p>	Not Applicable	See Notes for this Table for explanation.
<p><u>2.4.2 Page Titled:</u> The software has a title that describes topic or purpose.</p>	Supports	The application window title is "SyncroSim".
<p><u>2.4.3 Focus Order:</u> If a Software can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability.</p> <ul style="list-style-type: none"> • 	Not Applicable	Does not contain sequentially navigable content whose functionality is affected by the navigation order.
<p><u>2.4.4 Link Purpose (In Context):</u> 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</p>	Supports	All links supported.

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be ambiguous to users in general .		
3.1.1 Language of Page: The default human language of the software can be programmatically determined .	Supports	Language can be programmatically determined.
3.2.1 On Focus: When any component receives focus, it does not initiate a change of context .	Partially Supports	Supported in all cases except when navigating along tabs within Project, Library, or Scenario Property panels. Focus will sporadically be switched to first sub-item within tab without notice.
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	Does not contain context changes that are triggered while changing the settings of a user interface component.
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	All Input errors are described to the user in text.
3.3.2 Labels or Instructions: Labels or instructions are provided when content requires user input.	Supports	All content requiring user input has a label or instruction provided.
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	For WCAG 2.0 and the 508 standards, the September 2023 errata update indicates this criterion is always supported. See the WCAG 2.0 Editorial Errata .
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 .	Partially Supports	With a reasonable degree of certainty, all user interface components have names that can be programmatically determined, can be programmatically set, and notification of these changes are available to user agents.

Table 2: Success Criteria, Level AA

Notes: WCAG 2.0 Criterion 2.4.5 “Multiple Ways”, Criterion 3.2.3 “Consistent Navigation” and Criterion 3.2.4 “Consistent Identification” are not applicable to non-web based software as per [E207.2 of the section 508 standards](#).

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) : Captions are provided for all live audio content in synchronized media .	Not Applicable	Does not contain any synchronized media.
1.2.5 Audio Description (Prerecorded) : Audio description is provided for all prerecorded video content in synchronized media .	Not Applicable	Does not contain any synchronized media.
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: <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. 	Partially Supports	Supported for all text while not focused by user agent. Is not supported for text focused within the Library Explorer panel (contrast ratio of 2.94:1), and within Data Sheets panels (contrast ratio of 4.49:1).
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.	Does Not Support	Does not support text resizing functionality.
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: <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. <p><i>Note:</i> Logotypes (text that is part of a logo or brand name)</p>	Supports	Supported for all visual presentations (Maps and Charts).

Criteria	Conformance Level	Remarks and Explanations
are considered essential.		
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 .	Not Applicable	See Notes for this Table for explanation.
2.4.6 Headings and Labels: Headings and labels describe topic or purpose.	Supports	All Headings and Labels describe topic or purpose of associated content.
2.4.7 Focus Visible: Any keyboard operable user interface has a mode of operation where the keyboard focus indicator is visible.	Supports	All keyboard operable user interfaces have a focus indicator visible while navigating by keyboard.
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.	Supports	The human language of all content can be programmatically determined.
3.2.3 Consistent Navigation: Navigational mechanisms that are repeated on multiple Web pages within a set of software pages occur in the same relative order each time they are repeated, unless a change is initiated by the user.	Not Applicable	See Notes for this Table for explanation.
3.2.4 Consistent Identification: Components that have the same functionality within a set of software pages are identified consistently.	Not Applicable	See Notes for this Table for explanation.
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.	Not Applicable	Does not contain inputs where, on error, a suggestion for correction can be known.
3.3.4 Error Prevention (Legal, Financial, Data): software 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: <ol style="list-style-type: none"> 1. Reversible: Submissions are reversible. 2. Checked: Data entered by the user is checked for input errors and the user is provided an 	Not Applicable	Does not cause legal commitments or financial transactions for the user to occur.

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<p>opportunity to correct them.</p> <p>3. Confirmed: A mechanism is available for reviewing, confirming, and correcting information before finalizing the submission.</p>		

Table 3: Success Criteria, Level AAA

Notes: Not applicable. SyncroSim Desktop was not evaluated for WCAG 2.0 Level AAA conformance.

Revised Section 508 Report

Notes:

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

Notes: Does not apply to SyncroSim Desktop since all ICT functions are addressed by Chapter 5 as per [E204.1 of the section 508 standards](#).

Chapter 4: [Hardware](#)

Notes: Does not apply to SyncroSim Desktop since it is not a hardware-based ICT as per the [definition of “Hardware” on section508.gov](#)

Chapter 5: [Software](#)

Notes: Subsection 504 excluded since this ACR does not evaluate SyncroSim Desktop in its capacity as an Authoring Tool (See ACR Notes at the beginning of this document).

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.x section	See information in WCAG 2.x

Criteria	Conformance Level	Remarks and Explanations
		section
<u>502 Interoperability with Assistive Technology</u>	Heading cell – no response required	Heading cell – no response required
<u>502.2.1 User Control of Accessibility Features</u> Platform software shall provide user control over platform features that are defined in the platform documentation as accessibility features.	Not Applicable	Software is not a Platform software .
<u>502.2.2 No Disruption of Accessibility Features</u> Software shall not disrupt platform features that are defined in the platform documentation as accessibility features.	Supports	Software does not disrupt Windows Accessibility features.
<u>502.3 Accessibility Services</u>	Heading cell – no response required	Heading cell – no response required
<u>502.3.1 Object Information</u> The object role, state(s), properties, boundary, name, and description shall be programmatically determinable.	Partially Supports	With a reasonable degree of certainty, the software enables all object roles, states, properties, boundaries, names, and descriptions to be programmatically determinable.
<u>502.3.2 Modification of Object Information</u> States and properties that can be set by the user shall be capable of being set programmatically, including through assistive technology.	Partially Supports	With a reasonable degree of certainty, the software enables all object roles, states, properties, boundaries, names, and descriptions to be programmatically set.
<u>502.3.3 Row, Column, and Headers</u> 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	All information displayed in tabular format is programmatically determinable within the software.
<u>502.3.4 Values</u> Any current value(s), and any set or range of allowable values associated with an object, shall be programmatically determinable.	Partially Supports	With a reasonable degree of certainty, the software enables all values to be programmatically determinable.
<u>502.3.5 Modification of Values</u>	Partially Supports	With a reasonable degree of

Criteria	Conformance Level	Remarks and Explanations
Values that can be set by the user shall be capable of being set programmatically, including through assistive technology.		certainty, the software enables all values to be programmatically set.
<p><u>502.3.6 Label Relationships</u> Any relationship that a component has as a label for another component, or of being labeled by another component, shall be programmatically determinable.</p>	Partially Supports	With a reasonable degree of certainty, all labels are programmatically determinable.
<p><u>502.3.7 Hierarchical Relationships</u> Any hierarchical (parent-child) relationship that a component has as a container for, or being contained by, another component shall be programmatically determinable.</p>	Supports	All hierarchical relationships are programmatically determinable.
<p><u>502.3.8 Text</u> The content of text objects, text attributes, and the boundary of text rendered to the screen, shall be programmatically determinable.</p>	Partially Supports	With a reasonable degree of certainty, the software enables all text objects, text attributes and text boundaries to be programmatically determinable.
<p><u>502.3.9 Modification of Text</u> Text that can be set by the user shall be capable of being set programmatically, including through assistive technology.</p>	Partially Supports	With a reasonable degree of certainty, the software enables any text that can be set by the user to be done so programmatically.
<p><u>502.3.10 List of Actions</u> A list of all actions that can be executed on an object shall be programmatically determinable.</p>	Partially Supports	With a reasonable degree of certainty, the software enables all lists of actions for objects to be programmatically determinable.
<p><u>502.3.11 Actions on Objects</u> Applications shall allow assistive technology to programmatically execute available actions on objects.</p>	Partially Supports	With a reasonable degree of certainty, the software enables all lists of actions for objects to be programmatically executable.
<p><u>502.3.12 Focus Cursor</u> Applications shall expose information and mechanisms necessary to track focus, text insertion point, and selection attributes of user interface components.</p>	Partially Supports	With a reasonable degree of certainty, the software exposes information and mechanisms necessary to track focus, text insertion point, and selection attributes of user interface

Criteria	Conformance Level	Remarks and Explanations
		components.
<p><u>502.3.13 Modification of Focus Cursor</u> 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.</p>	Partially Supports	With a reasonable degree of certainty, the software enables focus, text insertion point, and selection attributes to be programmatically set.
<p><u>502.3.14 Event Notification</u> 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.</p>	Does Not Support	Completion notification of a forecasting simulation (indicated to users without disabilities via subtle state changes in user interface) not available programmatically to assistive technology.
<p><u>502.4 Platform Accessibility Features</u> 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) listed below:</p> <ol style="list-style-type: none"> 1. Section 9.3.3 Enable sequential entry of multiple (chorded) keystrokes; 2. Section 9.3.4 Provide adjustment of delay before key acceptance; 3. Section 9.3.5 Provide adjustment of same-key double-strike acceptance; 4. Section 10.6.7 Allow users to choose visual alternative for audio output; 5. Section 10.6.8 Synchronize audio equivalents for visual events; 6. Section 10.6.9 Provide speech output services; and 7. Section 10.7.1 Display any captions provided. 	Not Applicable	Software is not a Platform software .
<p><u>503 Applications</u></p>	Heading cell – no response required	Heading cell – no response required
<p><u>503.2 User Preferences</u> Applications shall permit user preferences from platform</p>	Partially Supports	With a reasonable degree of certainty, the software permits

Criteria	Conformance Level	Remarks and Explanations
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.		user preferences from platform settings.
<u>503.3 Alternative User Interfaces</u> 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	Software does not provide an alternative user interface that functions as assistive technology.
<i>503.4 User Controls for Captions and Audio Description</i>	Heading cell – no response required	Heading cell – no response required
<u>503.4.1 Caption Controls</u> 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	Software does not display video with synchronized audio.
<u>503.4.2 Audio Description Controls</u> 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	Software does not display video with synchronized audio.

Chapter 6: [Support Documentation and Services](#)

Notes: Chapter 6 excluded since this ACR does not evaluate SyncroSim Desktop's support documentation (See ACR Notes at the beginning of this document).