# The MathWorks, Inc.

# Accessibility Conformance Report

# WCAG Edition

**VPAT**® **Version 2.3 (Revised) – April 2019**

## Name of Product/Version: Simulink® 23.2 (R2023b)

## Product Description: Simulink is a graphical programming environment for modeling and simulation used by millions of engineers and scientists

## Report Date: September 13, 2023

## Contact information: service@mathworks.com

## Notes:

## Evaluation Methods Used: Manual check: audio/video content, sensory characteristics, keyboard navigation, focus visible, focus order, images of text, consistent navigation, error messages.

## 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](http://www.w3.org/TR/2008/REC-WCAG20-20081211) | Level A (Yes)  Level AA (Yes)  Level AAA (No) |
| [Web Content Accessibility Guidelines 2.1](https://www.w3.org/TR/WCAG21) | Level A (Yes)  Level AA (Yes)  Level AAA (No) |

## 

## 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 be used only in WCAG 2.0 Level AAA.

## WCAG 2.1 Report

Note: When reporting on conformance with the WCAG 2.1 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](https://www.w3.org/TR/WCAG20/#conformance-reqs).

### Table 1: Success Criteria, Level A

Notes: Simulink is a desktop application that does not yet meet all WCAG 2.1 Level A requirements.

| **Criteria** | | **Conformance Level** | **Remarks and Explanations** | |
| --- | --- | --- | --- | --- |
| [**1.1.1 Non-text Content**](http://www.w3.org/TR/WCAG20/#text-equiv-all) | | Does Not Support | | Textual descriptions of graphical content may exist but are not exposed to assistive technology. |
| [**1.2.1 Audio-only and Video-only (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-av-only-alt) | | Not Applicable | | Audio is not required for product operation, though audio-generating features do exist. |
| [**1.2.2 Captions (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-captions) | | Not Applicable | | Audio is not required for product operation, though audio-generating features do exist. |
| [**1.2.3 Audio Description or Media Alternative (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc) | | Not Applicable | | Audio is not required for product operation, though audio-generating features do exist. |
| [**1.3.1 Info and Relationships**](http://www.w3.org/TR/WCAG20/#content-structure-separation-programmatic) | | Does Not Support | | The structure and/or relationship of controls and content is not exposed to assistive technology. |
| [**1.3.2 Meaningful Sequence**](http://www.w3.org/TR/WCAG20/#content-structure-separation-sequence) | | Does Not Support | | The sequence and relationship of content displayed to the user is not exposed to screen readers. |
| [**1.3.3 Sensory Characteristics**](http://www.w3.org/TR/WCAG20/#content-structure-separation-understanding) | | Does Not Support | | In some cases, icon buttons do not have an associated text label. |
| [**1.4.1 Use of Color**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-without-color) | | Does Not Support | | Information might occasionally be encoded only in color. |
| [**1.4.2 Audio Control**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-dis-audio) | | Not Applicable | | Audio is not required for product operation, though audio-generating features do exist. |
| [**2.1.1 Keyboard**](http://www.w3.org/TR/WCAG20/#keyboard-operation-keyboard-operable) | | Does Not Support | | Many of the UI controls in Simulink can be accessed using a keyboard, and other core functionality can be performed by entering commands in the Command Window. |
| [**2.1.2 No Keyboard Trap**](http://www.w3.org/TR/WCAG20/#keyboard-operation-trapping) | | Does Not Support | | Focus cannot be moved away from some dialogs with only the keyboard. |
| [**2.1.4 Character Key Shortcuts**](https://www.w3.org/TR/WCAG21/#character-key-shortcuts) (Level A 2.1 only) | | Supports | |  |
| [**2.2.1 Timing Adjustable**](http://www.w3.org/TR/WCAG20/#time-limits-required-behaviors) | | Supports | |  |
| [**2.2.2 Pause, Stop, Hide**](http://www.w3.org/TR/WCAG20/#time-limits-pause) | | Not Applicable | | Simulink does not run any animations or multimedia content automatically. |
| [**2.3.1 Three Flashes or Below Threshold**](http://www.w3.org/TR/WCAG20/#seizure-does-not-violate) | | Supports | |  |
| [**2.4.1 Bypass Blocks**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-skip) | | Not Applicable | |  |
| [**2.4.2 Page Titled**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-title) | | Not Applicable | |  |
| [**2.4.3 Focus Order**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-order) | | Does Not Support | | Focus order may not be consistent in all UIs. |
| [**2.4.4 Link Purpose (In Context)**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-refs) | | Does Not Support | | Link purpose is not always determinable by the link text. |
| [**2.5.1 Pointer Gestures**](https://www.w3.org/TR/WCAG21/#pointer-gestures) (Level A 2.1 only) | | Does Not Support | | Resizing of side panels, resizing and positioning of blocks, wiring of block diagrams require pointer gestures (drag and drop). |
| [**2.5.2 Pointer Cancellation**](https://www.w3.org/TR/WCAG21/#pointer-cancellation) (Level A 2.1 only) | | Does Not Support | | In some cases, execution of function happens on down event of pointer. |
| [**2.5.3 Label in Name**](https://www.w3.org/TR/WCAG21/#label-in-name) (Level A 2.1 only) | | Does Not Support | | Name of all user interface components may not be available to assistive technology. |
| [**2.5.4 Motion Actuation**](https://www.w3.org/TR/WCAG21/#motion-actuation) (Level A 2.1 only) | | Not Applicable | | Simulink is a desktop application and is not tested for mobile devices with motion sensors. |
| [**3.1.1 Language of Page**](http://www.w3.org/TR/WCAG20/#meaning-doc-lang-id) | | Not Applicable | |  |
| [**3.2.1 On Focus**](http://www.w3.org/TR/WCAG20/#consistent-behavior-receive-focus) | | Supports | |  |
| [**3.2.2 On Input**](http://www.w3.org/TR/WCAG20/#consistent-behavior-unpredictable-change) | | Supports | |  |
| [**3.3.1 Error Identification**](http://www.w3.org/TR/WCAG20/#minimize-error-identified) | | Does Not Support | | Error messages display but are not exposed to assistive technology. |
| [**3.3.2 Labels or Instructions**](http://www.w3.org/TR/WCAG20/#minimize-error-cues) | | Does Not Support | | Labels and instructions display but are not exposed to assistive technology. |
| [**4.1.1 Parsing**](http://www.w3.org/TR/WCAG20/#ensure-compat-parses) | | Does Not Support | | Assistive technology may not be able to accurately parse all content. |
| [**4.1.2 Name, Role, Value**](http://www.w3.org/TR/WCAG20/#ensure-compat-rsv) | | Does Not Support | | Name, role, and value of all user interface components may not be available to assistive technology. |

### Table 2: Success Criteria, Level AA

Notes: Simulink is a desktop application that does not yet meet all WCAG 2.1 Level AA requirements.

| **Criteria** | | **Conformance Level** | **Remarks and Explanations** | |
| --- | --- | --- | --- | --- |
| [**1.2.4 Captions (Live)**](http://www.w3.org/TR/WCAG20/#media-equiv-real-time-captions) | | Not Applicable | | Audio is not required for product operation, though audio-generating features do exist. |
| [**1.2.5 Audio Description (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc-only) | | Not Applicable | | Audio is not required for product operation, though audio-generating features do exist. |
| [**1.3.4 Orientation**](https://www.w3.org/TR/WCAG21/#orientation) (Level AA 2.1 only) | | Supports | |  |
| [**1.3.5 Identify Input Purpose**](https://www.w3.org/TR/WCAG21/#identify-input-purpose) (Level AA 2.1 only) | | Does Not Support | | Input field purpose may not always be programmatically determined. |
| [**1.4.3 Contrast (Minimum)**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-contrast) | | Does Not Support | | In some cases, user interface text does not meet minimum contrast requirements. |
| [**1.4.4 Resize text**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-scale) | | Does Not Support | | Not all text in the application can be resized. |
| [**1.4.5 Images of Text**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-text-presentation) | | Does Not Support | | Figures have textual information which is not exposed to assistive technology. |
| [**1.4.10 Reflow**](https://www.w3.org/TR/WCAG21/#reflow) (Level AA 2.1 only) | | Does Not Support | | Horizontal or vertical scrolling may be required |
| [**1.4.11 Non-text Contrast**](https://www.w3.org/TR/WCAG21/#non-text-contrast) (Level AA 2.1 only) | | Does Not Support | | Simulink Toolstrip icons and other non-text content may not meet minimum contrast requirements. |
| [**1.4.12 Text Spacing**](https://www.w3.org/TR/WCAG21/#text-spacing) (Level AA 2.1 only) | | Does Not Support | | Simulink does not have option to change text style properties like line height, letter spacing and word spacing. |
| [**1.4.13 Content on Hover or Focus**](https://www.w3.org/TR/WCAG21/#content-on-hover-or-focus)  (Level AA 2.1 only) | | Does Not Support | | In some cases, tooltip content might not be hoverable or dismissable without moving pointer hover. |
| [**2.4.5 Multiple Ways**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-mult-loc) | | Not Applicable | |  |
| [**2.4.6 Headings and Labels**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-descriptive) | | Does Not Support | | Headings and labels are not exposed to assistive technology. |
| [**2.4.7 Focus Visible**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-visible) | | Does Not Support | | In some cases, a focus indicator might not be clearly visible to the user. |
| [**3.1.2 Language of Parts**](http://www.w3.org/TR/WCAG20/#meaning-other-lang-id) | | Not Applicable | |  |
| [**3.2.3 Consistent Navigation**](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-locations) | | Not Applicable | |  |
| [**3.2.4 Consistent Identification**](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-functionality) | | Not Applicable | |  |
| [**3.3.3 Error Suggestion**](http://www.w3.org/TR/WCAG20/#minimize-error-suggestions) | | Does Not Support | | Error messages display but are not exposed to assistive technology. |
| [**3.3.4 Error Prevention (Legal, Financial, Data)**](http://www.w3.org/TR/WCAG20/#minimize-error-reversible) | | Not Applicable | |  |
| [**4.1.3 Status Messages**](https://www.w3.org/TR/WCAG21/#status-messages)(Level AA 2.1 only) | | Does Not Support | | Status messages may not always be programmatically determined. |

## Legal Disclaimer

This document is for informational purposes only. The MathWorks, Inc. makes no warranties, expressed or implied, in this document. The information contained in this document represents the current view of MathWorks on the issues discussed as of the date of publication. Because MathWorks must respond to changing market conditions, it should not be interpreted to be a commitment on the part of MathWorks, and MathWorks cannot guarantee the accuracy of any information presented after the date of publication.

MATLAB and Simulink are registered trademarks of The MathWorks, Inc. See [www.mathworks.com/trademarks](http://www.mathworks.com/trademarks) for a list of additional trademarks. Other product or brand names may be trademarks or registered trademarks of their respective holders.