

ETHZ Accessibility Conformance Report

WCAG Edition

(Based on VPAT® Version 2.4Rev)

Name of Product/Version:

Safe Exam Browser 3.5.0 Windows Version

Report Date:

March 2023

Product Description:

Safe Exam Browser SEB is a web browser environment to carry out e-assessments safely. The software turns any computer temporarily into a secure workstation. It controls access to resources like system functions, other websites and applications and prevents unauthorized resources being used during an exam.

Contact Information:

anton.bolfing@let.ethz.ch

Notes:

This VPAT does not make any statements about possible content. Content, in most cases electronic exams and tests in HTML from LMS, is entirely the responsibility of the users / examiners. Success criteria that refer to elements and functions that do not exist in Safe Exam Browser but could exist are reported as “Supports”.

Known Issues:

- **No browse mode with NVDA screen reader**
 - At the time of publishing the current release (3.5.0) of the SEB, the content in the browser window cannot be read in browse mode with NVDA screen readers (release 2022_4).
 - **NVDA is therefore currently not usable within the SEB environment. SEB can be used with the latest versions of JAWS.**
- **No New Desktop Kiosk Mode**
 - **No "Create new desktop" Kiosk Mode:** The "Create new desktop" mode (SEB Configuration Tool > Security > Kiosk mode) does not work with tested screen readers (NVDA & JAWS).
 - **Use Disable Explorer Shell Kiosk Mode instead:** Alternatively, SEB can be run in Disable Explorer Shell Kiosk Mode.
- **Actions Center: [Win] + [A]:**
 - The Action Center can be displayed from the left edge of the screen using the keyboard short key **[Win] + [A]**.
 - The Action Center is not conveniently accessible in the current release (3.5.0). Especially for screen reader users. However, all relevant functions in the Action Center are accessible via the taskbar.
- **Keyboard shortcuts:**

Safe Exam Browser ensures that most relevant Windows operating system keyboard shortcuts also work within the SEB. Mentioned are

 - Dock: **[Win] + [D]** as well as **[Win] + [T]**; Navigate with **[Tab]** within taskbar.
 - Task view: **[Alt]+[Tab]**
 - Browser address bar: **[Ctrl]+[L]**
 - Action Center: **[Win] + [A]**

Note: We found that currently there is no way closing the “Application Protocol / log window” window using keyboard only. Will be fixed asap. Issue is considered not critical since function is used for debugging only.

Evaluation Methods Used:

Visual inspection, keyboard operation, screen reader tests with JAWS

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)
Web Content Accessibility Guidelines 2.1	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

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Supports	Mainly buttons [except for Actions Center]
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Supports	No time-based media
1.2.2 Captions (Prerecorded) (Level A)	Supports	No time-based media
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Supports	No time-based media
1.3.1 Info and Relationships (Level A)	Supports	Does not fully apply to the Action Center, but functionalities are redundant: List not as list
1.3.2 Meaningful Sequence (Level A)	Supports	
1.3.3 Sensory Characteristics (Level A)	Supports	
1.4.1 Use of Color (Level A)	Supports	
1.4.2 Audio Control (Level A)	Supports	No time-based media
2.1.1 Keyboard (Level A)	Supports	
2.1.2 No Keyboard Trap (Level A)	Supports	
2.1.4 Character Key Shortcuts (Level A 2.1 only)	Supports	
2.2.1 Timing Adjustable (Level A)	Supports	
2.2.2 Pause, Stop, Hide (Level A)	Supports	
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	
2.4.1 Bypass Blocks (Level A)	Supports	Using keyboard shortcuts to SEB Dock: [Win]
2.4.2 Page Titled (Level A)	Supports	Page title from browser content
2.4.3 Focus Order (Level A)	Supports	
2.4.4 Link Purpose (In Context) (Level A)	Supports	
2.5.1 Pointer Gestures (Level A 2.1 only)	Supports	
2.5.2 Pointer Cancellation (Level A 2.1 only)	Supports	
2.5.3 Label in Name (Level A 2.1 only)	Supports	
2.5.4 Motion Actuation (Level A 2.1 only)	Supports	
3.1.1 Language of Page (Level A)	Supports	

Criteria	Conformance Level	Remarks and Explanations
3.2.1 On Focus (Level A)	Supports	
3.2.2 On Input (Level A)	Supports	No input within SEB application outside LMS content
3.3.1 Error Identification (Level A)	Supports	No input within SEB application outside LMS content
3.3.2 Labels or Instructions (Level A)	Supports	
4.1.1 Parsing (Level A)	Supports	
4.1.2 Name, Role, Value (Level A)	Supports	

Table 2: Success Criteria, Level AA

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Supports	No time-based media
1.2.5 Audio Description (Prerecorded) (Level AA)	Supports	No time-based media
1.3.4 Orientation (Level AA 2.1 only)	Supports	Not tested for Windows Version, supported for iOS
1.3.5 Identify Input Purpose (Level AA 2.1 only)	Supports	No input within SEB application outside LMS content
1.4.3 Contrast (Minimum) (Level AA)	Supports	
1.4.4 Resize text (Level AA)	Supports	LMS content does resize well. Dock symbols do not resize but are non-textual.
1.4.5 Images of Text (Level AA)	Supports	
1.4.10 Reflow (Level AA 2.1 only)	Supports	
1.4.11 Non-text Contrast (Level AA 2.1 only)	Supports	
1.4.12 Text Spacing (Level AA 2.1 only)	Does not support	LMS content. It is technically not possible to apply custom style sheets in Safe Exam Browser.
1.4.13 Content on Hover or Focus (Level AA 2.1 only)	Supports	
2.4.5 Multiple Ways (Level AA)	Supports	
2.4.6 Headings and Labels (Level AA)	Supports	
2.4.7 Focus Visible (Level AA)	Supports	
3.1.2 Language of Parts (Level AA)	Supports	
3.2.3 Consistent Navigation (Level AA)	Supports	
3.2.4 Consistent Identification (Level AA)	Supports	
3.3.3 Error Suggestion (Level AA)	Supports	No input within SEB application outside LMS content

Criteria	Conformance Level	Remarks and Explanations
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Supports	No input within SEB application outside LMS content
4.1.3 Status Messages (Level AA 2.1 only)	Supports	No status messages

Table 3: Success Criteria, Level AAA

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA)	Not evaluated	AAA
1.2.7 Extended Audio Description (Prerecorded) (Level AAA)	Not evaluated	AAA
1.2.8 Media Alternative (Prerecorded) (Level AAA)	Not evaluated	AAA
1.2.9 Audio-only (Live) (Level AAA)	Not evaluated	AAA
1.3.6 Identify Purpose (Level AAA 2.1 only)	Not evaluated	AAA
1.4.6 Contrast (Enhanced) (Level AAA)	Not evaluated	AAA
1.4.7 Low or No Background Audio (Level AAA)	Not evaluated	AAA
1.4.8 Visual Presentation (Level AAA)	Not evaluated	AAA
1.4.9 Images of Text (No Exception) (Level AAA)	Not evaluated	AAA
2.1.3 Keyboard (No Exception) (Level AAA)	Not evaluated	AAA
2.2.3 No Timing (Level AAA)	Not evaluated	AAA
2.2.4 Interruptions (Level AAA)	Not evaluated	AAA
2.2.5 Re-authenticating (Level AAA)	Not evaluated	AAA
2.2.6 Timeouts (Level AAA 2.1 only)	Not evaluated	AAA
2.3.2 Three Flashes (Level AAA)	Not evaluated	AAA
2.3.3 Animation from Interactions (Level AAA 2.1 only)	Not evaluated	AAA
2.4.8 Location (Level AAA)	Not evaluated	AAA
2.4.9 Link Purpose (Link Only) (Level AAA)	Not evaluated	AAA
2.4.10 Section Headings (Level AAA)	Not evaluated	AAA
2.5.5 Target Size (Level AAA 2.1 only)	Not evaluated	AAA
2.5.6 Concurrent Input Mechanisms (Level AAA 2.1 only)	Not evaluated	AAA
3.1.3 Unusual Words (Level AAA)	Not evaluated	AAA
3.1.4 Abbreviations (Level AAA)	Not evaluated	AAA

Criteria	Conformance Level	Remarks and Explanations
3.1.5 Reading Level (Level AAA)	Not evaluated	AAA
3.1.6 Pronunciation (Level AAA)	Not evaluated	AAA
3.2.5 Change on Request (Level AAA)	Not evaluated	AAA
3.3.5 Help (Level AAA)	Not evaluated	AAA
3.3.6 Error Prevention (All) (Level AAA)	Not evaluated	AAA