

# Auburn University Accessibility Conformance Report for jGRASP Software

**VPAT Heading Information** – Revised Section 508 Edition Version 2.5 – February 2025

**Name of Product/Version** – jGRASP 2.0.6\_18 Beta 3 and higher.

**Product Description** – jGRASP is a lightweight development environment which includes core functionality of edit, compile, run, and debug for programs written in Java, C, C++, Kotlin, Objective-C, Python, Ada, and VHDL. jGRASP also includes advanced functionality that provides for the automatic generation of software visualizations to improve the comprehensibility of software. jGRASP is implemented in Java and runs on all platforms with a Java Virtual Machine (Java version 11 or higher).

**Report Date** – May 26, 2025

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**Notes** – The jGRASP website from which jGRASP may be obtained conforms with WCAG 2.2.

jGRASP is a Java application, and many accessibility features depend on the Java Look & Feel (L&F), which may be selected by the user. All L&Fs delivered with current and past Java releases have some issues with accessibility. jGRASP provides a dark L&F with enhanced visual contrast. Third party L&Fs that provide other enhanced accessibility may be available. In cases where criteria are partially supported due to L&F dependence, this is noted in the conformance tables below.

Many of the missing accessibility features – primarily keyboard navigation and accessible text – are for the UML diagram and structural runtime viewers. We are working to improve this.

**Evaluation Methods Used** – jGRASP has been evaluated for accessibility by the developers, using tools developed in-house that display accessibility information for the currently focused UI component and test UI elements recursively for missing accessibility content. No independent evaluation has been performed.

**Applicable Standards/Guidelines** - Conformance of the jGRASP IDE with Revised Section 508 standards as applied to non-web applications is detailed in the tables below.

**Terms** –

- **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.

<b>WCAG Success Criteria as specified by Revised Section 508 Standards (Non-Web Applications)</b>		
<b>Criteria</b>	<b>Conformance Level</b>	<b>Remarks and Explanations</b>
<b>1.1.1 Non-text Content - Level A</b>	Partially Supports	Not supported for some advanced visualizations.
<b>1.2 Time-based media (All 1.2)</b>	Not Applicable	No time-based media is used.
<b>1.3.1 Info and Relationships - Level A</b>	Supports	
<b>1.3.2 Meaningful Sequence - Level A</b>	Supports	
<b>1.3.3 Sensory Characteristics - Level A</b>	Supports	
<b>1.4.1 Use of Color - Level A</b>	Partially Supports	Some supplemental information in some advanced visualizations is provided only using color.
<b>1.4.2 Audio Control - Level A</b>	Not Applicable	No automatically played audio is used.
<b>1.4.3 Contrast (Minimum) - Level AA</b>	Supports	A high-contrast dark Java L&Fs is provided.
<b>1.4.4 Resize text - Level AA</b>	Supports	
<b>1.4.5 Images of Text - Level AA</b>	Supports	
<b>2.1.1 Keyboard – Level A</b>	Partially Supports	Element selection functions of some advanced visualizations cannot be performed with the keyboard only.
<b>2.1.2 No Keyboard Trap - Level A</b>	Partially Supports	There are no actual keyboard traps, but the use of function keys or modified tab keys is required in some cases to escape a focus cycle. The user is not advised of these methods. This is Look&Feel dependent, but common to the Look&Feels delivered with Java.
<b>2.2.1 Timing Adjustable - Level A</b>	Not Applicable	Time limits are not used.
<b>2.2.2 Pause, Stop, Hide - Level A</b>	Supports	
<b>2.3.1 Three Flashes or Below Threshold - Level A</b>	Supports	
<b>2.4.2 Page Titled - Level A</b>	Supports	
<b>2.4.3 Focus Order - Level A</b>	Supports	
<b>2.4.4 Link Purpose (In Context) - Level A</b>	Supports	
<b>2.4.6 Headings and Labels – Level AA</b>	Supports	
<b>2.4.7 Focus Visible - Level AA</b>	Supports	
<b>2.5.1 Pointer Gestures – Level A</b>	Supports	
<b>2.5.2 Pointer Cancellation – Level A</b>	Supports	
<b>2.5.3 Label in Name – Level A</b>	Supports	
<b>3.1.1 Language of Page - Level A</b>	Supports	
<b>3.1.2 Language of Parts - Level AA</b>	Partially Supports	Platform locale and language settings are used, but all non-library content is in English. For languages other than English, UI elements will be in mixed languages with no means of distinguishing language.
<b>3.2.1 On Focus - Level A</b>	Supports	
<b>3.2.2 On Input - Level A</b>	Supports	

<b>3.3.1 Error Identification - Level A</b>	Supports	
<b>3.3.3 Error Suggestion - Level AA</b>	Supports	
<b>3.3.4 Error Prevention (Legal, Financial, Data) - Level AA</b>	Not Applicable	The product does not cause legal commitments or financial transactions to occur.
<b>4.1.1 Parsing - Level A</b>	Supports	
<b>4.1.2 Name, Role, Value - Level A</b>	Partially Supports	Not supported for some advanced visualizations.

<b>Other Revised Section 508 Requirements Applicable to Non-Web Software</b>		
<b>Criteria</b>	<b>Conformance Level</b>	<b>Remarks and Explanations</b>
<b>502.2.1 User Control of Accessibility Features</b>	Not Applicable	The product is not platform software.
<b>502.2.2 No Disruption of Accessibility Features</b>	Supports	
<b>502.3 (All)</b>	Not Applicable	The product is not platform software.
<b>502.4</b>	Not Applicable	The product is not platform software.
<b>503.2 User Preferences</b>	Supports	
<b>503.3 Alternative User Interfaces</b>	Not Applicable	The product does not provide assistive technology features.
<b>503.4.1 Caption Controls</b>	Not Applicable	Video is not used.
<b>503.4.2 Audio Description Controls</b>	Not Applicable	Video is not used.
<b>504 (All)</b>	Not Applicable	Not an authoring tool.
<b>602.2 Accessibility and Compatibility Features</b>	Supports	
<b>602.3 Electronic Support Documentation</b>	Supports	Documentation conforms to WCAG 2.2.
<b>602.4 Alternate Formats for Non-Electronic Support Documentation</b>	Not Applicable	Only electronic documentation is provided.
<b>603.2 Information on Accessibility and Compatibility Features</b>	Supports	
<b>603.3 Accommodation of Communication Needs</b>	Supports	