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 2.1.0 Beta 4 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).

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Contact Information – James Cross (crossjh@auburn.edu)

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.

WCAG Success Criteria as specified by Revised Section 508 Standards (Non-Web Applications)

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content - Level A	Partially Supports	Not supported for some advanced visualizations.
1.2 Time-based media (All 1.2)	Not Applicable	No time-based media is used.
1.3.1 Info and Relationships - Level A	Supports	
1.3.2 Meaningful Sequence - Level A	Supports	
1.3.3 Sensory Characteristics - Level A	Supports	
1.4.1 Use of Color - Level A	Partially Supports	Some supplemental information in some advanced visualizations is provided only using color.
1.4.2 Audio Control - Level A	Not Applicable	No automatically played audio is used.
1.4.3 Contrast (Minimum) - Level AA	Supports	A high-contrast dark Java L&Fs is provided.
1.4.4 Resize text - Level AA	Supports	
1.4.5 Images of Text - Level AA	Supports	
2.1.1 Keyboard – Level A	Partially Supports	Element selection functions of some advanced visualizations cannot be performed with the keyboard only.
2.1.2 No Keyboard Trap - Level A	Supports	
2.2.1 Timing Adjustable - Level A	Not Applicable	Time limits are not used.
2.2.2 Pause, Stop, Hide - Level A	Supports	
2.3.1 Three Flashes or Below Threshold - Level A	Supports	
2.4.2 Page Titled - Level A	Supports	
2.4.3 Focus Order - Level A	Supports	
2.4.4 Link Purpose (In Context) - Level A	Supports	
2.4.6 Headings and Labels – Level AA	Supports	
2.4.7 Focus Visible - Level AA	Supports	
2.5.1 Pointer Gestures – Level A	Supports	
2.5.2 Pointer Cancellation – Level A	Supports	
2.5.3 Label in Name – Level A	Supports	
3.1.1 Language of Page - Level A	Supports	
3.1.2 Language of Parts - Level AA	Supports	
3.2.1 On Focus - Level A	Supports	
3.2.2 On Input - Level A	Supports	
3.3.1 Error Identification - Level A	Supports	
3.3.3 Error Suggestion - Level AA	Supports	
3.3.4 Error Prevention (Legal, Financial, Data) - Level AA	Not Applicable	The product does not cause legal commitments or financial transactions to occur.
4.1.1 Parsing - Level A	Supports	
4.1.2 Name, Role, Value - Level A	Partially Supports	Not supported for some advanced visualizations.

Other Revised Section 508 Requirements Applicable to Non-Web Software

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