Revised Section 508 Standards for Software (WCAG 2.0)

<https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#E207-software>

<https://www.w3.org/TR/WCAG20/>

Conformance Levels:

* **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.

| **Criteria** | | **Conformance Level** | **Remarks and Explanations** | |
| --- | --- | --- | --- | --- |
| [**1.1.1 Non-text Content**](http://www.w3.org/TR/WCAG20/#text-equiv-all) (Level A) | | Supports | | Most content and the command-line interface (CLI) are text; while there is a visualization of a pipeline in the Ziggy graphical user interface (GUI), pipelines are typically created in XML1 |
| [**1.2.1 Audio-only and Video-only (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-av-only-alt) (Level A) | | N/A | | Ziggy does not use audio or video |
| [**1.2.2 Captions (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-captions) (Level A) | | N/A | | Ziggy does not use audio or video |
| [**1.2.3 Audio Description or Media Alternative (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc) (Level A) | | N/A | | Ziggy does not use video |
| [**1.3.1 Info and Relationships**](http://www.w3.org/TR/WCAG20/#content-structure-separation-programmatic) (Level A) | | Supports | | Ziggy’s GUI is written in Swing1, and the CLI and text-based configuration files are fully accessible to a screen-reader |
| [**1.3.2 Meaningful Sequence**](http://www.w3.org/TR/WCAG20/#content-structure-separation-sequence) (Level A) | | Supports | | Ziggy’s GUI is written in Swing1, and the CLI and text-based configuration files are fully accessible to a screen-reader |
| [**1.3.3 Sensory Characteristics**](http://www.w3.org/TR/WCAG20/#content-structure-separation-understanding) (Level A) | | N/A | | All elements are text |
| [**1.4.1 Use of Color**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-without-color) (Level A) | | Supports | | Ziggy’s CLI does not use color; the only use of color in the GUI is in a stoplight indicator that utilizes iconography (the GUI partially supports this guideline until ZIGGY-7 is resolved) |
| [**1.4.2 Audio Control**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-dis-audio) (Level A) | | N/A | | Ziggy does not use audio |
| [**2.1.1 Keyboard**](http://www.w3.org/TR/WCAG20/#keyboard-operation-keyboard-operable) (Level A) | | Supports | | Ziggy’s CLI is fully accessible; the GUI can be fully navigated via the keyboard (the GUI partially supports this guideline until ZIGGY-14 is resolved) |
| [**2.1.2 No Keyboard Trap**](http://www.w3.org/TR/WCAG20/#keyboard-operation-trapping) (Level A) | | Supports | | Ziggy’s CLI and GUI do not contain keyboard traps |
| [**2.2.1 Timing Adjustable**](http://www.w3.org/TR/WCAG20/#time-limits-required-behaviors) (Level A) | | N/A | | Ziggy’s CLI and GUI do not have timeouts |
| [**2.2.2 Pause, Stop, Hide**](http://www.w3.org/TR/WCAG20/#time-limits-pause) (Level A) | | N/A | | Ziggy’s CLI does not refresh the screen, and the GUI refreshes the pipeline status screen every 2.5 seconds to display changes in status, an essential activity |
| [**2.3.1 Three Flashes or Below Threshold**](http://www.w3.org/TR/WCAG20/#seizure-does-not-violate) (Level A) | | N/A | | Ziggy’s CLI and GUI do not flash |
| [**2.4.1 Bypass Blocks**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-skip) (Level A) | | N/A | | Ziggy’s CLI and GUI do not have superfluous blocks |
| [**2.4.2 Page Titled**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-title) (Level A) | | Supports | | All content in Ziggy’s GUI is in labeled tabs and this is N/A in the CLI |
| [**2.4.3 Focus Order**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-order) (Level A) | | Supports | | Focus in Ziggy’s GUI moves between text fields and buttons in a reasonable fashion and this is N/A in the CLI |
| [**2.4.4 Link Purpose (In Context)**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-refs) (Level A) | | N/A | | Ziggy’s CLI and GUI do not contain links |
| [**3.1.1 Language of Page**](http://www.w3.org/TR/WCAG20/#meaning-doc-lang-id) (Level A) | | N/A | | Ziggy uses a single language (English) |
| [**3.2.1 On Focus**](http://www.w3.org/TR/WCAG20/#consistent-behavior-receive-focus) (Level A) | | Supports | | Context in the Ziggy GUI only changes upon pressing a button or selecting a tab and this is N/A in the CLI |
| [**3.2.2 On Input**](http://www.w3.org/TR/WCAG20/#consistent-behavior-unpredictable-change) (Level A) | | Supports | | Context in the Ziggy GUI only changes upon pressing a button or selecting a tab and this is N/A in the CLI |
| [**3.3.1 Error Identification**](http://www.w3.org/TR/WCAG20/#minimize-error-identified) (Level A) | | Supports | | Ziggy’s GUI displays an error dialog and the CLI displays the error textually |
| [**3.3.2 Labels or Instructions**](http://www.w3.org/TR/WCAG20/#minimize-error-cues) (Level A) | | Supports | | Ziggy’s GUI provides sufficient labels and tooltips and the CLI provides a –help option |
| [**4.1.1 Parsing**](http://www.w3.org/TR/WCAG20/#ensure-compat-parses) (Level A) | | Supports | | This is N/A in Ziggy’s CLI, and the GUI is in Swing so this criterion is largely N/A; however, some text in dialogs uses HTML and these have complete start and end tags |
| [**4.1.2 Name, Role, Value**](http://www.w3.org/TR/WCAG20/#ensure-compat-rsv) (Level A) | | Supports | | Ziggy’s GUI is written in Swing1 and the CLI is fully accessible to Assistive Technologies |
| [**1.2.4 Captions (Live)**](http://www.w3.org/TR/WCAG20/#media-equiv-real-time-captions) (Level AA) | | N/A | | Ziggy does not use video |
| [**1.2.5 Audio Description (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc-only) (Level AA) | | N/A | | Ziggy does not use video |
| [**1.4.3 Contrast (Minimum)**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-contrast) (Level AA) | | Supports | | Contrast in Ziggy’s GUI ranges from approximately 15.46:1 to 21:1 and the CLI fully supports this guideline |
| [**1.4.4 Resize text**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-scale) (Level AA) | | Supports | | Ziggy’s GUI is written in Swing1, whose text size can be modified via a couple of properties and the CLI fully supports this guideline |
| [**1.4.5 Images of Text**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-text-presentation) (Level AA) | | N/A | | Ziggy’s CLI and GUI do not contain images of text |
| [**2.4.5 Multiple Ways**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-mult-loc) (Level AA) | | N/A | | The content in Ziggy’s CLI and GUI is limited and always visible |
| [**2.4.6 Headings and Labels**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-descriptive) (Level AA) | | Supports | | The labels and headings in Ziggy’s GUI are descriptive and this is N/A in the CLI |
| [**2.4.7 Focus Visible**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-visible) (Level AA) | | Supports | | Ziggy’s GUI is written in Swing, which makes the focus clearly visible, and this is N/A in the CLI |
| [**3.1.2 Language of Parts**](http://www.w3.org/TR/WCAG20/#meaning-other-lang-id) (Level AA) | | N/A | | Ziggy uses a single language (English) |
| [**3.2.3 Consistent Navigation**](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-locations) (Level AA) | | Supports | | Ziggy’s CLI fully supports this guideline, and the GUI has a consistent button order and double-click behavior (the GUI partially supports this guideline until ZIGGY-14 is resolved) |
| [**3.2.4 Consistent Identification**](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-functionality) (Level AA) | | Supports | | Ziggy’s CLI and GUI use consistent terms (the GUI partially supports this guideline until ZIGGY-14 is resolved) |
| [**3.3.3 Error Suggestion**](http://www.w3.org/TR/WCAG20/#minimize-error-suggestions) (Level AA) | | Supports | | Ziggy’s GUI displays user and other errors in a dialog with descriptive text and the CLI displays the error textually |
| [**3.3.4 Error Prevention (Legal, Financial, Data)**](http://www.w3.org/TR/WCAG20/#minimize-error-reversible) (Level AA) | | Supports | | Ziggy’s CLI and GUI check user input and provide confirmation at the dialog level and allow parameters to be reviewed before launching a pipeline |
| [302 Functional Performance Criteria](https://www.access-board.gov/ict/#302-functional-performance-criteria) | | - | | - |
| [302.1 Without Vision](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines" \l "302-functional-performance-criteria" \t "_blank) | | Supports | | See 1.3.1, 1.3.2, 1.4.4, 4.1.2 |
| [302.2 With Limited Vision](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | Supports | | See 1.3.1, 1.3.2, 1.4.4, 4.1.2 |
| [302.3 Without Perception of Color](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | Supports | | See 1.4.1 |
| [302.4 Without Hearing](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | N/A | | See 1.2.1 |
| [302.5 With Limited Hearing](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | N/A | | See 1.2.1 |
| [302.6 Without Speech](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | N/A | | Ziggy does not use speech |
| [302.7 With Limited Manipulation](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | Supports | | See 2.1.1 |
| [302.8 With Limited Reach and Strength](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | Supports | | See 2.1.1 |
| [302.9 With Limited Language, Cognitive, and Learning Abilities](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#302-functional-performance-criteria) | | N/A | | Ziggy’s audience does not include individuals with limited abilities |
| [502 Interoperability with Assistive Technology](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#502-interoperability-assistive-technology) | | - | | - |
| 502.2.1 User Control of Accessibility Features | | Supports | | See 1.3.1, 1.3.2, 1.4.4, 4.1.2 |
| 502.2.2 No Disruption of Accessibility Features | | Supports | | See 1.3.1, 1.3.2, 1.4.4, 4.1.2 |
| [502.3 Accessibility Services](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#502-interoperability-assistive-technology) | | - | | - |
| 502.3.1 Object Information | | Supports | | See 4.1.2 |
| 502.3.2 Modification of Object Information | | Supports | | See 4.1.2 |
| 502.3.3 Row, Column, and Headers | | Supports | | See 4.1.2 |
| 502.3.4 Values | | Supports | | See 4.1.2 |
| 502.3.5 Modification of Values | | Supports | | See 4.1.2 |
| 502.3.6 Label Relationships | | Supports | | See 4.1.2 |
| 502.3.7 Hierarchical Relationships | | Supports | | See 4.1.2 |
| 502.3.8 Text | | Supports | | See 4.1.2 |
| 502.3.9 Modification of Text | | Supports | | See 4.1.2 |
| 502.3.10 List of Actions | | Supports | | See 4.1.2 |
| 502.3.11 Actions on Objects | | Supports | | See 4.1.2 |
| 502.3.12 Focus Cursor | | Supports | | See 2.4.7 |
| 502.3.13 Modification of Focus Cursor | | Supports | | See 4.1.2 |
| 502.3.14 Event Notification | | Supports | | See 4.1.2 |
| 502.4 Platform Accessibility Features | | Supports | | See 2.1.1 and 2.1.2 for Section 9 items; Section 10 does not apply as Ziggy does not use audio or video |
| [503 Applications](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#503-applications) | | - | | - |
| 503.2 User Preferences | | N/A | | This is equivalent to 1.4.8, a Level AAA requirement |
| 503.3 Alternative User Interfaces | | Supports | | Ziggy provides a CLI in addition to a GUI |
| 503.4 User Controls for Captions and Audio Description | | N/A | | Ziggy does not use audio |
| 503.4.1 Caption Controls | | N/A | | Ziggy does not use audio |
| 503.4.2 Audio Description Controls | | N/A | | Ziggy does not use audio |
| [504 Authoring Tools](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#504-authoring-tools) | | - | | - |
| 504.2 Content Creation or Editing (if not authoring tool, enter "not applicable") | | N/A | | Ziggy is not an authoring tool |
| 504.2.1 Preservation of Information Provided for Accessibility in Format Conversion | | N/A | | Ziggy is not an authoring tool |
| 504.2.2 PDF Export | | N/A | | Ziggy is not an authoring tool |
| 504.3 Prompts | | N/A | | Ziggy is not an authoring tool |
| 504.4 Templates | | N/A | | Ziggy is not an authoring tool |
| [602 Support Documentation](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#602-support-documentation) | | - | | - |
| 602.2 Accessibility and Compatibility Features | | Supports | | Documentation provided by Swing and user’s OS |
| 602.3 Electronic Support Documentation | | Supports | | Ziggy’s documentation is accessible |
| 602.4 Alternate Formats for Non-Electronic Support Documentation | | N/A | | Ziggy does not provide non-electronic documentation |
| [603 Support Services](https://www.access-board.gov/guidelines-and-standards/communications-and-it/about-the-ict-refresh/final-rule/text-of-the-standards-and-guidelines#603-support-services) | | - | | - |
| 603.2 Information on Accessibility and Compatibility Features | | N/A | | Support services will not be provided with Ziggy |
| 603.3 Accommodation of Communication Needs | | N/A | | Support services will not be provided with Ziggy |

1. The Java Accessibility API is built into the Swing components to provide access to assistive technologies. See [How to Support Assistive Technologies](https://docs.oracle.com/javase/tutorial/uiswing/misc/access.html).