WSO2 Micro Integrator Voluntary Product Accessibility Template (VPAT)

Version 1.0 - May 2025

This document outlines the Voluntary Product Accessibility Template (VPAT) compliance report for WSO2 Micro Integrator (MI).

Scope of the Evaluation

WCAG Version	2.1
Conformance target	AA
Technology	WSO2 Micro Integrator (MI) - 4.4.0
	MI Visual Studio Code (VSCode) Plugin - 2.2.0
	Integration Control Plane - 1.1.0

Product Description

- **Product Name**: WSO2 Micro Integrator (MI) and Associated Tools
- **Version Number**: 4.4.0
- **Release Date**: Feb 20, 2025
- **Product Description**:
    - **MI Visual Studio Code (VSCode) Plugin**: A plugin for VSCode that facilitates the development of integration solutions..
    - **Integration Control Plane**: Formerly known as WSO2 Management Dashboard, it is used for managing, monitoring, and orchestrating integrations.
    - **MI Server**: A command-line interface (CLI) for deploying and managing integration services.

Evaluation Methods Used

A combination of automated and manual testing techniques was employed for the accessibility assessment.

- Manual Screen Reader assessment was performed using Apple/MacOS VoiceOver.
- Automated tools used included Chrome Lighthouse, WAVE Evaluation Tool, Accessibility Insight Testing.

Applicable Standards/Guidelines

Standard/Guideline	Version	Included in the report
WCAG (Web Content Accessibility Guidelines)	2.2	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 meets the criteria without known defects or meets with equivalent facilitation.
Partially Supports: Some functionality of the product does not meet the criteria.
Does Not Support: Majority of functionality of the product does not meet the criteria.
Not Applicable: The criteria are not relevant to the product.

Detailed Audit Results

Summary

	Supports	**Partially Supports**	**Not Applicable**
MI VS Code extension	35	6	9
Integration Control Plane	40	2	8
MI Server (CLI)	22	0	28

Principle 1 – Perceivable

Information and user interface components must be presentable to users in ways they can perceive.

1.1 – Text Alternatives

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content Level A	**MI VS Code extension**: Partially Supports	Incorporates alternative text for the majority of its UI elements. But it requires additional enhancements like ARIA labels or descriptive text to ensure full accessibility.
	Integration Control Plane: Supports	ARIA labels are present in most of the UI components.
	MI Server (CLI): Supports	CLI is text-based, so there are no non-text elements. As logs, config outputs are textual and not color/symbol-only, this meets the requirement.

1.2 – Time-based Media

Criteria	Conformance Level	Remarks and Explanations
1.2.1 Audio-only and Video-only (Prerecorded) Level A	**MI VS Code extension**: Not Applicable	The product has no multimedia.
	Integration Control Plane: Not Applicable	The product has no multimedia.
	MI Server (CLI): Not Applicable	The product has no multimedia.
1.2.2 Captions (Prerecorded) Level A	**MI VS Code extension**: Not Applicable	The product has no multimedia.
	Integration Control Plane: Not Applicable	The product has no multimedia.
	MI Server (CLI): Not Applicable	The product has no multimedia.

1.2.3 Audio Description or Media Alternative (Prerecorded) Level A	**MI VS Code extension**: Not Applicable	The product has no multimedia.
	Integration Control Plane: Not Applicable	The product has no multimedia.
	MI Server (CLI): Not Applicable	The product has no multimedia.
1.2.4 Captions (Live) Level AA	**MI VS Code extension**: Not Applicable	The product has no multimedia.
	Integration Control Plane: Not Applicable	The product has no multimedia.
	MI Server (CLI: Not Applicable	The product has no multimedia.
1.2.5 Audio Description (Prerecorded) Level AA	**MI VS Code extension**: Not Applicable	The product has no multimedia.
	Integration Control Plane: Not Applicable	The product has no multimedia.
	MI Server (CLI): Not Applicable	The product has no multimedia.

1.3 – Adaptable

Criteria	Conformance Level	Remarks and Explanations
1.3.1 Info and Relationships Level A	**MI VS Code extension**: Partially Supports	Most of the elements like panels and trees support programmatic structure. However, it requires additional enhancements like ARIA labels to fully support.
	Integration Control Plane: Supports	ARIA labels are present in most of the UI components.
	MI Server (CLI): Supports	Being text-based, CLI inherently present information in a linear, semantic way.

1.3.2 Meaningful Sequence Level A	**MI VS Code extension**: Supports	The UI visually organizes flows and configurations in a logical sequence
	Integration Control Plane: Partially Supports	The UI visually organizes flows and configurations in a logical sequence
	MI Server (CLI): Supports	Content is presented as plain text in a consistent, logical sequence
1.3.3 Sensory Characteristics Level A	**MI VS Code extension**: Supports	Instructions do not rely only on sensory characteristics (e.g., color, shape, position, sound).
	Integration Control Plane: Supports	Instructions do not rely only on sensory characteristics (e.g., color, shape, position, sound).
	MI Server (CLI): Supports	The CLI relies on structured text, not sensory cues.
1.3.4 Orientation Level AA	**MI VS Code extension**: Not Applicable	The plugin runs on desktop environments where screen orientation is typically fixed (landscape). Orientation flexibility is not applicable in this context.
	Integration Control Plane: Supports	Dashboard supports both landscape and portrait orientations where applicable.
	MI Server (CLI): Not Applicable	CLI and configuration files are accessed via terminal or text editors, which are not impacted by screen orientation.
1.3.5 Identify Input Purpose Level AA	**MI VS Code extension**: Not Applicable	The plugin is focused on developing integrations and does not collect personal user data via input fields, so this criterion is not applicable.
	Integration Control Plane: Not Applicable	The dashboard does not collect personal user data via input fields, so this criterion is not applicable.
	MI Server (CLI): Not Applicable	There are no web forms or personal data input fields in the CLI. This criterion is not applicable.

1.4 – Distinguishable

Criteria	Conformance Level	Remarks and Explanations
1.4.1 Use of Color Level A	**MI VS Code extension**: Supports	Color is not the only means used to convey information to users.
	Integration Control Plane: Supports	Color is not the only means used to convey information to users.
	MI Server (CLI): Supports	The CLI and configuration files use plain text, not color, to convey meaning.
1.4.2 Audio Control Level A	**MI VS Code extension**: Not Applicable	The product has no multimedia.
	Integration Control Plane: Not Applicable	The product has no multimedia.
	MI Server (CLI): Not Applicable	The product has no multimedia.
1.4.3 Contrast (Minimum) Level AA	**MI VS Code extension**: Supports	UI components remain visible and distinguishable when high contrast mode is enabled
	Integration Control Plane: Supports	UI components remain visible and distinguishable when high contrast mode is enabled
	MI Server (CLI): Not Applicable	As a terminal-based interface, contrast is controlled by the terminal theme. CLI tools themselves do not render styled text, so this criterion is not applicable.
1.4.4 Resize Text Level AA	**MI VS Code extension**: Supports	Allows users to enlarge text without breaking layout or hiding content.
	Integration Control Plane: Supports	Allows zooming via the browser.
	MI Server (CLI): Supports	Terminal font size is controlled by the user's terminal or shell settings.
1.4.5 Images of Text Level AA	**MI VS Code extension**: Supports	No unnecessary use of static text images is present. Logos and branding are appropriate exceptions.

	Integration Control Plane: Supports	No unnecessary use of static text images is present. Logos and branding are appropriate exceptions.
	MI Server (CLI): Supports	Entirely text-based (terminal and config files); no images of text used at all.
1.4.10 Reflow Level AA	**MI VS Code extension**: Supports	The sidebar panels, editors, and integrated views adjust to zoom/resizing and support content reflow.
	Integration Control Plane: Supports	Supports zoom and resizing
	MI Server (CLI): Supports	CLI tools and configuration files are not visual UIs. They are fully accessible via terminal resizing or editor zoom features.
1.4.11 Non-text Contrast Level AA	**MI VS Code extension**: Supports	UI components remain visible and distinguishable when high contrast mode is enabled
	Integration Control Plane: Supports	UI components remain visible and distinguishable when high contrast mode is enabled
	MI Server (CLI): Not Applicable	Non-graphical environment. CLI and config files are text-based; this criterion does not apply.
1.4.12 Text Spacing Level AA	**MI VS Code extension**: Supports	Text remains readable and accessible when adjusted.
	Integration Control Plane: Supports	Text remains readable and accessible when adjusted.
	MI Server (CLI): Supports	The CLI and configuration files are text-based. Text spacing is controlled by the terminal or text editor settings.
1.4.13 Content on Hover or Focus Level AA	**MI VS Code extension**: Supports	The VSCode plugin properly handles content that appears on hover/focus. Content can be dismissed by clicking outside.
	Integration Control Plane: Supports	The web-based UI is designed to show dynamic content on hover or focus. Content can be dismissed by clicking outside.
	MI Server (CLI): Not Applicable	CLI and configuration files are static and text-based; no hover or focus-related content is present.

Principle 2 – Operable

2.1 – Keyboard Accessible

Criteria	Conformance Level	Remarks and Explanations
2.1.1 Keyboard Level A	**MI VS Code extension**: Partially Supports	Most of the UI components support keyboard navigation. But some of the fields are missing.
	Integration Control Plane: Partially Supports	Most of the UI components support keyboard navigation. But some of the fields are missing.
	MI Server (CLI): Supports	Operable via the keyboard.
2.1.2 No Keyboard Trap Level A	**MI VS Code extension**: Partially Supports	Most of the UI components support users to move focus freely between UI elements without getting stuck. But some modals can trap focus unless explicitly closed.
	Integration Control Plane: Supports	The web dashboard ensures that all modals, tooltips, and interactive elements allow users to exit or move focus using the keyboard.
	MI Server (CLI): Supports	The CLI environment is inherently free from keyboard traps, as it operates entirely through the keyboard.
2.1.4 Character Key Shortcuts Level A	**MI VS Code extension**: Supports	Can remap or disable key shortcuts through the settings interface.
	Integration Control Plane: Supports	Can do using browser settings.
	MI Server (CLI): Supports	The CLI is text-based, and the environment does not use character key shortcuts in the traditional sense. All commands and actions are executed through the keyboard, and there are no conflicts or need for remapping shortcuts.

2.2 – Enough Time

Criteria	Conformance Level	Remarks and Explanations
2.2.1 Timing Adjustable Level A	**MI VS Code extension**: Supports	No time limits for user actions. It operates fully within the user's control. The user is allowed to adjust the time limit.
	Integration Control Plane: Supports	No time limits for user actions.
	MI Server (CLI): Supports	No user-facing time limits.
2.2.2 Pause, Stop, Hide Level A	**MI VS Code extension**: Supports	All updates are user-triggered
	Integration Control Plane: Supports	All updates are user-triggered
	MI Server (CLI): Supports	No moving or auto-updating visual content. Logs are printed in real-time but are entirely under user control.

2.3 – Seizures and Physical Reactions

Criteria	Conformance Level	Remarks and Explanations
2.3.1 Three Flashes or Below Threshold Level A	**MI VS Code extension**: Supports	Does not contain any flashing content.
	Integration Control Plane: Supports	Does not contain any flashing content.
	MI Server (CLI): Supports	Does not contain any flashing content.

2.4 – Navigable

Criteria	Conformance Level	Remarks and Explanations
2.4.1 Bypass Blocks Level A	**MI VS Code extension**: Supports	VSCode supports accessible navigation via keyboard, and the MI plugin fits into that structure.
	Integration Control Plane: Supports	The web dashboard includes regions like navigation menus and content areas
	MI Server (CLI): Not Applicable	CLI-based interaction has no “blocks” of content to bypass.
2.4.2 Page Titled Level A	**MI VS Code extension**: Supports	Editors, diagrams, and configuration views have clear titles that reflect their content.
	Integration Control Plane: Supports	Pages, diagrams have clear titles that reflect their content
	MI Server (CLI): Supports	The CLI interface does not involve windows or pages with titles. However, the terminal prompt and command output clearly reflect the user’s context.
2.4.3 Focus Order Level A	**MI VS Code extension**: Supports	Focus moves predictably through an order.
	Integration Control Plane: Supports	Focus moves predictably through an order.
	MI Server (CLI): Supports	The CLI environment is linear and inherently navigated using keyboard commands in the correct order.
2.4.4 Link Purpose (In Context) Level A	**MI VS Code extension**: Supports	Most interactions are through buttons. Where links are shown, they are labeled clearly with context.
	Integration Control Plane: Supports	Links are well-labeled
	MI Server (CLI): Supports	No hyperlinks; all navigation is command-line-based.

2.4.5 Multiple Ways Level AA	**MI VS Code extension**: Supports	Users can access functionality via multiple ways such as side panel, command palette, keyboard shortcuts.
	Integration Control Plane: Supports	Users can access functionality via multiple ways such as the main navigation bar, search function, breadcrumbs.
	MI Server (CLI): Supports	CLI is linear and command-based, but users can access help (--help)
2.4.6 Headings and Labels Level AA	**MI VS Code extension**: Supports	Sections are clearly labeled.
	Integration Control Plane: Supports	Pages and sections use meaningful headings
	MI Server (CLI): Supports	CLI doesn't use visual headings or labels in the traditional sense. However, output is structured and labeled with clear context.
2.4.7 Focus Visible Level AA	**MI VS Code extension**: Supports	Focus outlines are visible when navigating through the plugin panels, buttons.
	Integration Control Plane: Supports	Show a visible focus outline
	MI Server (CLI): Not Applicable	Not applicable to CLI

2.5 – Input Modalities

Criteria	Conformance Level	Remarks and Explanations
2.5.1 Pointer Gestures Level A	**MI VS Code extension**: Supports	Interactions are click-based, there are no gesture-based actions.
	Integration Control Plane: Supports	Interactions are click-based (mouse or keyboard); there are no gesture-based actions.
	MI Server (CLI): Not Applicable	CLI is text-based with no pointer interactions.

2.5.2 Pointer Cancellation Level A	**MI VS Code extension**: Supports	Interactions in the plugin occur on mouseup or standard input events.
	Integration Control Plane: Supports	Interactions in the plugin occur on mouseup or standard input events.
	MI Server (CLI): Not Applicable	Text-based interface; pointer input not applicable.
2.5.3 Label in Name Level A	**MI VS Code extension**: Partially Supports	Most controls with visible labels reflect those in the accessible name, but some are lacking aria-label.
	Integration Control Plane: Supports	ARIA labels are present in most of the UI components.
	MI Server (CLI): Not Applicable	CLI doesn't use pointer-based labels; user interacts via command line.
2.5.4 Motion Actuation Level	**MI VS Code extension**: Not Applicable	Motion input is not applicable.
	Integration Control Plane: Not Applicable	Motion input is not applicable.
	MI Server (CLI): Not Applicable	Motion input is not applicable.

Principle 3 – Understandable

3.1 – Readable

Criteria	Conformance Level	Remarks and Explanations
3.1.1 Language of Page Level A	**MI VS Code extension**: Supports	Inherits accessibility from VSCode, which declares language settings.
	Integration Control Plane: Supports	Web pages include the lang="en" attribute.

	MI Server (CLI): Not Applicable	CLI interface does not involve HTML or document rendering.
3.1.2 Language of Parts Level AA	**MI VS Code extension**: Supports	All UI text is in English. No dynamic or multilingual content is presented, so additional language tagging is not currently needed.
	Integration Control Plane: Supports	Content is in English by default. If other languages were introduced, the platform allows for proper HTML lang tagging for those sections.
	MI Server (CLI): Not Applicable	No mixed-language document or content rendering applies.

3.2 – Predictable

Criteria	Conformance Level	Remarks and Explanations
3.2.1 On Focus Level A	**MI VS Code extension**: Supports	Interactions require explicit user actions
	Integration Control Plane: Supports	Interactions require explicit user actions
	MI Server (CLI): Not Applicable	CLI-based interaction; user inputs are command-driven and explicitly triggered.
3.2.2 On Input Level A	**MI VS Code extension**: Supports	Form fields and filters do not auto-navigate or auto-submit.
	Integration Control Plane: Supports	Form fields and filters do not auto-navigate or auto-submit.
	MI Server (CLI): Not Applicable	CLI-based interaction; user inputs are command-driven and explicitly triggered.
3.2.3 Consistent Navigation Level AA	**MI VS Code extension**: Supports	Navigation components follow the consistent structure.
	Integration Control Plane: Supports	Navigation components follow the consistent structure.

	MI Server (CLI): Not Applicable	CLI has no graphical navigation UI.
3.2.4 Consistent Identification Level AA	**MI VS Code extension**: Supports	Common elements are labeled and identified consistently across the extension.
	Integration Control Plane: Supports	Elements maintain consistent naming and icons across the dashboard views.
	MI Server (CLI): Not Applicable	CLI has no graphical navigation UI.

3.3 – Input Assistance

Criteria	Conformance Level	Remarks and Explanations
3.3.1 Error Identification Level A	**MI VS Code extension**: Supports	Errors are shown in the Problems tab, and fields in error are highlighted with relevant descriptions.
	Integration Control Plane: Supports	In the dashboard, errors related to service deployments, configurations, or integration issues are clearly identified in the UI with descriptions in alerts.
	MI Server (CLI): Supports	CLI provides detailed error messages in the terminal, with explanations.
3.3.2 Labels or Instructions Level A	**MI VS Code extension**: Supports	Fields in the extension include clear labels. Tooltips and descriptions guide users when applicable.
	Integration Control Plane: Supports	All user-facing forms include proper labels.
	MI Server (CLI): Not Applicable	Text-based config files and CLI commands do not use GUI labels, but comments and documentation provide the necessary guidance.
3.3.3 Error Suggestion Level AA	**MI VS Code extension**: Supports	Error messages often include suggestions.
	Integration Control Plane: Supports	Error messages often include suggestions.

	MI Server (CLI): Supports	The CLI displays detailed error messages
3.3.4 Error Prevention (Legal, Financial, Data) Level AA	**MI VS Code extension**: Supports	Actions like modifying configurations typically include confirmation dialogs, and often they are reversible.
	Integration Control Plane: Supports	Actions like modifying configurations typically include confirmation dialogs.
	MI Server (CLI): Not Applicable	UI interactions are not present.

Principle 4 – Robust

4.1 – Compatible

Criteria	Conformance Level	Remarks and Explanations
4.1.1 Parsing Level A	**MI VS Code extension**: Supports	Well-formed HTML/JSX is used across its views, with valid structure, proper tag nesting, and HTML compliance.
	Integration Control Plane: Supports	Pages generally use valid, well-formed HTML.
	MI Server (CLI): Not Applicable	CLI are not web interfaces.
4.1.2 Name, Role, Value Level A	**MI VS Code extension**: Partially Supports	Most UI components expose appropriate name and role properties, but lack explicit ARIA roles and programmatically exposed names.
	Integration Control Plane: Partially Supports	Most UI components expose appropriate name and role properties, but lack explicit ARIA roles and programmatically exposed names.
	MI Server (CLI): Not Applicable	No interactive UI components for users.
4.1.3 Status Messages Level AA	**MI VS Code extension**: Supports	When status messages are presented without receiving focus, they can be programmatically determined through assistive technologies like screen readers

	Integration Control Plane: Supports	When status messages are presented without receiving focus, they can be programmatically determined through assistive technologies like screen readers
	MI Server (CLI): Not Applicable	As a text-based interface, status messages are naturally read line-by-line in the terminal or logs.

Legal Disclaimer

Notwithstanding anything in this document to the contrary, the information provided related to WSo2 Micro Integrator product compliance is accurate to the best of WSO2's knowledge as of the date of the report above. This document is not the Web Content Accessibility Guidelines (WCAG) and should not be used as a substitute for it. Excerpts of WCAG are referenced solely for purposes of detailing the product's conformance with the relevant provisions. Any modification or customization to the product may render some or all of this accessibility conformance report to become inapplicable. The contents of this document are provided "as is" and for informational purposes only.