Ohio Supercomputer Center Accessibility Conformance Report

WCAG Edition

(Based on VPAT® Version 2.5Rev)

Name of Product/Version: Open OnDemand version 4.1

Report Date: 13 January 2026

Product Description: Developed by the Ohio Supercomputer Center (OSC) and funded by the National Science Foundation, Open OnDemand is an open-source portal that enables web-based access to HPC services. Clients manage files and jobs, create and share apps, run GUI applications and connect via SSH, all from any device with a web browser. OnDemand can be installed on a variety of HPC operating systems and resource managers.

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Notes: For more information on accessibility conformance for Open OnDemand please visit openondemand.org/accessibility

Evaluation Methods Used: Evaluation was performed by people familiar with the functionality of Open OnDemand using only manual testing and with Narrator, the screen reader included in Windows 11. The "Text Spacing Editor" extension in the Chrome browser was also used to test some criteria.

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)
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 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 2.x Report

Note: When reporting on conformance with the WCAG 2.x Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the WCAG 2.0 Conformance Requirements.

Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Partially Supports	The button to traverse up a directory in the files app has no alternative text.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Not Applicable	There is no prerecorded media in Open OnDemand
1.2.2 Captions (Prerecorded) (Level A)	Not Applicable	There is no prerecorded media in Open OnDemand
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Not Applicable	There is no prerecorded media in Open OnDemand
1.3.1 Info and Relationships (Level A)	Partially Supports	The selected job in the job composer is shown only through color. Also, in the system status and active jobs pages, when the page updates, the screen reader is set back to the beginning of the page. We intend to fix this in OOD 4.2 and is captured in issue #4944 and issue #4945 on GitHub.
1.3.2 Meaningful Sequence (Level A)	Supports	All content in Open OnDemand with meaningful sequence is correctly programmatically determined. Most content does not have a meaningful sequence, but tables are read row by row and directory links are read in the order that matches the filesystem.
1.3.3 Sensory Characteristics (Level A)	Partially Supports	The only way to tell which job is selected in the job composer is through color. We intend to fix this in OOD 4.2 and it is captured in issue #4944 on GitHub.
1.4.1 Use of Color (Level A)	Partially Supports	The only way to tell which job is selected in the job composer is through color. We intend to fix this in OOD 4.2 and it is captured in issue #4944 on GitHub.
1.4.2 Audio Control (Level A)	Not Applicable	There is no prerecorded media in Open OnDemand
2.1.1 Keyboard (Level A)	Supports	All functionality in Open OnDemand can be accessed through a keyboard without any specific timing of individual keystrokes. However, on the active sessions page, a screen reader will periodically move focus when information gets updated.

Criteria	Conformance Level	Remarks and Explanations
2.1.2 No Keyboard Trap (Level A)	Supports	The only content that cannot be focused away from with both the tab and arrow keys are text boxes. However, text boxes can always have focus moved away by using the tab key, as they only force the arrow keys to stay within the text box.
2.1.4 Character Key Shortcuts (Level A 2.1 and 2.2)	Not Applicable	Open OnDemand does not implement character key shortcuts.
2.2.1 Timing Adjustable (Level A)	Supports	The time limits set by Open OnDemand include authentication timeouts, time limits intrinsic to jobs and schedulers, and the time between polling updates to keep information up-to-date. Because changing the time limit would cause inaccurate information to be presented, and because time limits are intrinsic to jobs, these time limits are essential to the functioning of Open OnDemand.
2.2.2 Pause, Stop, Hide (Level A)	Not Applicable	Open OnDemand does not have any media that would require pause, stop, or hide functionality.
2.3.1 Three Flashes or Below Threshold (Level A)	Supports	There are no flashing elements in OOD.
2.4.1 Bypass Blocks (Level A)	Partially Supports	The job composer does not have a skip navigation link. We intend to fix this in OOD 4.2 and it is captured in issue #4959 on GitHub.
2.4.2 Page Titled (Level A)	Supports	All pages in Open OnDemand are titled.
2.4.3 Focus Order (Level A)	Supports	In cases where navigation order affects meaning or operation, focusable elements receive order correctly. For example, in the Files app, directories are focused in the correct order when tabbing through.
2.4.4 Link Purpose (In Context) (Level A)	Supports	All links in Open OnDemand either have their own descriptions or are preceded by text descriptions.
2.5.1 Pointer Gestures (Level A 2.1 and 2.2)	Supports	The drag and drop functionality in the Files app supports the same functionality without any dragging.
2.5.2 Pointer Cancellation (Level A 2.1 and 2.2)	Supports	The only time Open OnDemand relies on the down-event is during a drag and drop, which is cancellable.

Criteria	Conformance Level	Remarks and Explanations
2.5.3 Label in Name (Level A 2.1 and 2.2)	Supports	All visible labels are programmatically linked to their associated elements in Open OnDemand, so the name always contains text presented visually.
2.5.4 Motion Actuation (Level A 2.1 and 2.2)	Not Applicable	There is no motion actuation in Open OnDemand.
3.1.1 Language of Page (Level A)	Supports	Open OnDemand supports certain locales automatically.
3.2.1 On Focus (Level A)	Supports	In Open OnDemand, focusing on its own does not perform any functionality.
3.2.2 On Input (Level A)	Supports	Any input that would cause a change of context is either clearly labeled or is a link.
3.2.6 Consistent Help (Level A 2.2 only)	Supports	All help information in Open OnDemand is contained within a dropdown at the far right of the navigation bar, which is the same on every page.
3.3.1 Error Identification (Level A)	Supports	Invalid or missing input results in a message about the specific input and why it is invalid, as well as focusing the user back to that input.
3.3.2 Labels or Instructions (Level A)	Supports	Every input element is labeled in Open OnDemand. When possible, inputs are automatically determined and the user only needs to select from a dropdown.
3.3.7 Redundant Entry (Level A 2.2 only)	Supports	Inputs in Open OnDemand are auto populated with either existing information or a select dropdown when possible. When invalid inputs are submitted, they are not cleared but instead only described.

4.1.1 Parsing (Level A)
    WCAG 2.0 and 2.1 – Always answer 'Supports'
    WCAG 2.2 (obsolete and removed) - Does not apply
	Supports	For WCAG 2.0 and 2.1, the September 2023 errata update indicates this criterion is always supported. See the WCAG 2.0 Editorial Errata and the WCAG 2.1 Editorial Errata.

4.1.2 Name, Role, Value (Level A)	Supports	Open OnDemand uses standard HTML inputs and buttons for interface controls, which can be read and set by assistive technologies.

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Not Applicable	There is no prerecorded media in Open OnDemand
1.2.5 Audio Description (Prerecorded) (Level AA)	Not Applicable	There is no prerecorded media in Open OnDemand
1.3.4 Orientation (Level AA 2.1 and 2.2)	Supports	There is no mechanism to set orientation in Open OnDemand, but devices ability to set orientation will cause OOD to be resized appropriately. OOD can be used with a screen that is in either portrait or landscape orientation.
1.3.5 Identify Input Purpose (Level AA 2.1 and 2.2)	Not Applicable	Open OnDemand does not directly ask for any of the listed input purposes for this requirement.
1.4.3 Contrast (Minimum) (Level AA)	Supports	Open OnDemand utilizes Bootstrap and its theming, which itself guarantees acceptable color contrast.
1.4.4 Resize text (Level AA)	Supports	Some menus may become collapsed with text at 200% size, but functionality is fully maintained.
1.4.5 Images of Text (Level AA)	Supports	There are no images of text present.
1.4.10 Reflow (Level AA 2.1 and 2.2)	Supports	There is no horizontal scrolling in OOD. Some menus may collapse, such as the navigation bar, at the width required by this criterion, but functionality is preserved.
1.4.11 Non-text Contrast (Level AA 2.1 and 2.2)	Supports	By using Bootstrap's theming, the interface will always have an acceptable color contrast.
1.4.12 Text Spacing (Level AA 2.1 and 2.2)	Supports	Text spacing cannot be adjusted within OOD itself, but if the browser modifies these values, text still appears correctly.
1.4.13 Content on Hover or Focus (Level AA 2.1 and 2.2)	Partially Supports	While the title attribute, which supports this criterion, is used extensively throughout OOD, the information bubbles when hovering over an app cannot be dismissed without removing focus and does not persist if a user moves focus to the information bubble. This is true with the Job Composer as well. We intend to fix

Criteria	Conformance Level	Remarks and Explanations
		this in OOD 4.2 and it is captured in issue #4951 on GitHub.
2.4.5 Multiple Ways (Level AA)	Supports	To access apps, the interactive apps dropdown, the interactive sessions page, and the all apps page all allow the user to access various apps. There are links to the Files app within other parts of OOD as well.
2.4.6 Headings and Labels (Level AA)	Supports	OOD's content has appropriate headings and labels.
2.4.7 Focus Visible (Level AA)	Supports	When focusing on an element with a keyboard, it is highlighted. In a text box, there is a flashing vertical bar to display that text can be input.
2.4.11 Focus Not Obscured (Minimum) (Level AA 2.2 only)	Supports	Focused elements are never hidden in OOD.
2.5.7 Dragging Movements (Level AA 2.2 only)	Supports	Any dragging movements in Open OnDemand can be performed similarly just using button presses.
2.5.8 Target Size (Minimum) (Level AA 2.2 only)	Supports	There are no undersized targets in Open OnDemand.
3.1.2 Language of Parts (Level AA)	Not Applicable	OOD does not contain parts of the page with different languages.
3.2.3 Consistent Navigation (Level AA)	Partially Supports	The navigation bar in the Job Composer is different than the rest of OOD. This should be addressed in version 4.2 via GitHub issue #4954.
3.2.4 Consistent Identification (Level AA)	Supports	Elements are labeled consistently in OOD.
3.3.3 Error Suggestion (Level AA)	Supports	Users are notified of any errors with inputs.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA)	Supports	Data is checked by OOD before submission of jobs, and users can correct errors. When deleting data in the Files app, a confirmation is given before the file is deleted.
3.3.8 Accessible Authentication (Minimum) (Level AA 2.2 only)	Not Applicable	Authentication is not directly handled by OOD and depends on the software that a particular installation decides to use.
4.1.3 Status Messages (Level AA 2.1 and 2.2)	Supports	Status messages do not take focus in OOD.

Legal Disclaimer (Ohio Supercomputer Center)

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