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# VPAT® 2.5 - WCAG 2.1 Accessibility Conformance Report

**Product Name:** Op Hub

**Product Description:** Op Hub is a web-based hospital operations dashboard application that enables healthcare staff to manage and display real-time operational data including patient census, staffing assignments, on-call schedules, rapid response team (RRT) rosters, and interdepartmental communication. The application features a dual-mode interface with a Build Mode for administrators to configure sections and display pages, and a User/Input Mode for staff to enter and view data. It supports role-based access control, Microsoft and Google authentication, mobile-responsive design, and automated data archiving.

**Product Version:** 1.0

**Report Date:** January 23, 2026

**Last Updated:** January 23, 2026

**Conformance Target:** WCAG 2.1 Level AA

**Evaluation Methods:** Manual testing, code review, keyboard navigation testing, screen reader testing

**Contact for Accessibility Inquiries:** NAE MEDI SOLUTIONS LLC

**Document Version:** 1.0

## Executive Summary

This Accessibility Conformance Report (ACR) documents the WCAG 2.1 Level AA conformance status of the Op Hub application. The application underwent accessibility remediation on January 22-23, 2026. All identified accessibility barriers have been addressed, and the application now fully supports WCAG 2.1 Level AA requirements.

## Evaluation Methodology

### Testing Environment:

- Browsers: Google Chrome (latest), Microsoft Edge (latest), Mozilla Firefox (latest), Safari (latest)
- Screen Readers: NVDA 2024.4 (Windows), VoiceOver (macOS/iOS)
- Devices: Desktop (Windows 11, macOS), Mobile (iOS, Android)
- Zoom Testing: Browser zoom tested at 100%, 150%, 200%, and 400%

## Testing Methods:

- Manual keyboard navigation testing (Tab, Enter, Escape, Arrow keys)
- Screen reader compatibility testing with NVDA and VoiceOver
- Color contrast analysis using WebAIM Contrast Checker
- Source code review for ARIA attributes, semantic HTML, and focus management
- Responsive design and reflow testing at various viewport sizes

## Remediation Summary

The following table documents the initial state, remediation actions taken, and final conformance status for each criterion that required changes.

WCAG Criteria	Initial Status	Initial Findings	Remediation Action	Final Status	Final Remarks
1.3.1 Info and Relationships (Level A)	Partially Supports	RRT container used row/cell roles without parent grid role. Archive list buttons had conflicting role attributes.	Added appropriate grid role to RRT container. Corrected button role conflicts in archive list.	Supports	All semantic relationships are properly conveyed through ARIA roles and HTML structure.
1.3.5 Identify Input Purpose (Level AA)	Does Not Support	Name input fields were missing autocomplete attribute.	Added autocomplete='name' to all staff name input fields.	Supports	All name and phone inputs have appropriate autocomplete attributes.
1.4.1 Use of Color (Level A)	Partially Supports	Status indicator screen reader announcement only conveyed color names without semantic meaning.	Updated screen reader announcements to use descriptive status labels: 'Normal', 'Warning', 'Alert'.	Supports	Status indicators use both color and text/symbols. Screen reader announces meaningful status names.
1.4.10 Reflow (Level AA)	Does Not Support	Page content was cropped when browser zoomed to 200%. Overflow settings prevented scrolling.	Modified overflow properties to allow scrolling. Updated display overlay dimensions. Added browser zoom detection to preserve layout at high zoom levels.	Supports	Content reflows properly at 200% zoom. Users can scroll to access all content.

<b>2.1.1 Keyboard (Level A)</b>	Partially Supports	Main canvas area was not keyboard accessible for scrolling when zoomed.	Made canvas element focusable to allow keyboard focus and arrow key scrolling.	Supports	All functionality is available via keyboard. Canvas can be tabbed to and scrolled with arrow keys.
<b>2.1.2 No Keyboard Trap (Level A)</b>	Does Not Support	Rich text editor trapped keyboard focus with no way to exit via keyboard.	Added Escape key handler to rich text editor to exit and move focus to next element.	Supports	Users can exit the rich text editor by pressing Escape.
<b>2.4.7 Focus Visible (Level AA)</b>	Partially Supports	Canvas element had no visible focus indicator when tabbed to.	Added visible focus indicator style for canvas element.	Supports	All focusable elements have visible focus indicators.
<b>3.2.1 On Focus (Level A)</b>	Partially Supports	No feedback when canvas received focus, making it unclear where focus was for screen reader users.	Added focus event listener to canvas that announces context to screen reader users.	Supports	Focus changes provide appropriate feedback to assistive technology users.
<b>4.1.2 Name, Role, Value (Level A)</b>	Partially Supports	Resize handles used incorrect ARIA role. Mode toggle checkbox lacked explicit accessible name.	Corrected resize handle role to 'separator'. Added appropriate aria-labels to resize handles and mode toggle checkbox.	Supports	All interactive elements have appropriate roles and accessible names.

## Full WCAG 2.1 Level AA Conformance Table

The following table provides the complete conformance status for all WCAG 2.1 Level A and AA success criteria.

Success Criteria	Conformance Level	Remarks and Explanations
<b>1.1.1 Non-text Content (A)</b>	Supports	All images have alt text. Icons use aria-labels. Decorative elements are hidden from assistive technology.
<b>1.2.1 Audio-only and Video-only (A)</b>	Not Applicable	Application does not contain audio or video content.
<b>1.2.2 Captions (A)</b>	Not Applicable	Application does not contain video content.
<b>1.2.3 Audio Description or Media Alternative (A)</b>	Not Applicable	Application does not contain video content.
<b>1.2.4 Captions (Live) (AA)</b>	Not Applicable	Application does not contain live audio content.
<b>1.2.5 Audio Description (AA)</b>	Not Applicable	Application does not contain video content.
<b>1.3.1 Info and Relationships (A)</b>	Supports	Semantic HTML used throughout. ARIA roles properly applied. Headings, lists, and tables are properly structured.
<b>1.3.2 Meaningful Sequence (A)</b>	Supports	Reading order matches visual order. Tab order is logical.
<b>1.3.3 Sensory Characteristics (A)</b>	Supports	Instructions do not rely solely on shape, size, or location.
<b>1.3.4 Orientation (AA)</b>	Supports	Content displays in both portrait and landscape orientations.
<b>1.3.5 Identify Input Purpose (AA)</b>	Supports	Input fields have autocomplete attributes (name, email, tel) where appropriate.
<b>1.4.1 Use of Color (A)</b>	Supports	Color is not the sole means of conveying information. Status indicators use symbols and text.
<b>1.4.2 Audio Control (A)</b>	Not Applicable	Application does not contain audio that plays automatically.
<b>1.4.3 Contrast (Minimum) (AA)</b>	Supports	Text maintains minimum 4.5:1 contrast ratio. Large text maintains 3:1 ratio.
<b>1.4.4 Resize Text (AA)</b>	Supports	Text can be resized up to 200% without loss of functionality.
<b>1.4.5 Images of Text (AA)</b>	Supports	Real text is used instead of images of text.
<b>1.4.10 Reflow (AA)</b>	Supports	Content reflows at 400% zoom without horizontal scrolling (320px equivalent).

1.4.11 Non-text Contrast (AA)	Supports	UI components and graphical objects have minimum 3:1 contrast ratio.
1.4.12 Text Spacing (AA)	Supports	No loss of content when text spacing is adjusted.
1.4.13 Content on Hover or Focus (AA)	Supports	Tooltips and hover content are dismissible, hoverable, and persistent.
2.1.1 Keyboard (A)	Supports	All functionality is available via keyboard.
2.1.2 No Keyboard Trap (A)	Supports	Focus can be moved away from all components. Escape key exits rich text editor.
2.1.4 Character Key Shortcuts (A)	Not Applicable	Application does not use single character key shortcuts.
2.2.1 Timing Adjustable (A)	Supports	Auto-refresh does not cause loss of data or interrupt user tasks.
2.2.2 Pause, Stop, Hide (A)	Supports	Auto-updating content (timestamps) is informational only and does not interfere.
2.3.1 Three Flashes or Below Threshold (A)	Supports	No content flashes more than three times per second.
2.4.1 Bypass Blocks (A)	Supports	Skip link provided to bypass header and navigate to main content.
2.4.2 Page Titled (A)	Supports	Page has descriptive title.
2.4.3 Focus Order (A)	Supports	Focus order is logical and follows visual layout.
2.4.4 Link Purpose (In Context) (A)	Supports	Link purpose can be determined from link text or context.
2.4.5 Multiple Ways (AA)	Supports	Multiple ways to navigate: tab navigation, skip link, section navigation dropdown on mobile.
2.4.6 Headings and Labels (AA)	Supports	Headings and labels are descriptive.
2.4.7 Focus Visible (AA)	Supports	All focusable elements have visible focus indicators.
2.5.1 Pointer Gestures (A)	Supports	All functionality uses single-pointer actions.
2.5.2 Pointer Cancellation (A)	Supports	Actions complete on up-event; can be aborted.
2.5.3 Label in Name (A)	Supports	Accessible names contain visible text.
2.5.4 Motion Actuation (A)	Not Applicable	Application does not use motion-based inputs.
3.1.1 Language of Page (A)	Supports	Page language is specified (lang='en').
3.1.2 Language of Parts (AA)	Supports	All content is in English; no language changes within content.
3.2.1 On Focus (A)	Supports	Focus does not cause unexpected context changes.

<b>3.2.2 On Input (A)</b>	Supports	Input does not cause unexpected context changes without warning.
<b>3.2.3 Consistent Navigation (AA)</b>	Supports	Navigation is consistent across pages.
<b>3.2.4 Consistent Identification (AA)</b>	Supports	Components with same function are identified consistently.
<b>3.3.1 Error Identification (A)</b>	Supports	Errors are identified with role='alert' and descriptive text.
<b>3.3.2 Labels or Instructions (A)</b>	Supports	All form inputs have associated labels.
<b>3.3.3 Error Suggestion (AA)</b>	Supports	Error messages provide suggestions for correction.
<b>3.3.4 Error Prevention (Legal, Financial, Data) (AA)</b>	Supports	Confirmation dialogs provided for destructive actions.
<b>4.1.1 Parsing (A)</b>	Supports	HTML is well-formed with unique IDs and proper nesting.
<b>4.1.2 Name, Role, Value (A)</b>	Supports	All UI components have accessible names, roles, and states.
<b>4.1.3 Status Messages (AA)</b>	Supports	Status messages use aria-live regions to announce to screen readers.

## Additional UI/UX Improvements

The following improvements were made to enhance usability beyond strict WCAG requirements:

Improvement	Description
Mobile Tools Button	Hidden on mobile where it was not visible due to color matching the background.
Desktop Tools Button Position	Moved to bottom-right corner to prevent overlapping text content.
Editor Padding	Added 50px bottom padding to rich text editor to ensure text never overlaps with Tools button.
Mobile Header Buttons	Stacked vertically with full width to prevent email address overflow.
Display Page Scroll Reset	Added scroll position reset when switching between pages to prevent disorientation.

## Certification

This report accurately reflects the accessibility conformance of the Op Hub application as of the report date. The evaluation was conducted using manual testing and code review.

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**Date:** January 23, 2026

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## Disclaimer

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