

# ACCESSIBILITY QUICKSCAN MIDPOINT

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## 1 INTRO

This report presents the results of an accessibility quickscan. During a quickscan we check for the most common accessibility issues, according to the international WCAG 2.1 guidelines, level AA. We test if the product is usable with assistive devices or with keyboard only.

A quickscan doesn't cover all accessibility criteria and is therefore not a replacement for an official audit.

### Scope of this quickscan

The machine used during this quickscan is a virtual machine running Windows 10. The browser used during this quickscan is Google Chrome. The following URL was tested during this quickscan: <https://han-demo.evolveum.com/>. The quickscan was done using an account with the role of 'Basic User'.

## 2 SUMMARY

The MidPoint application can't be used by people who use a screen reader. The main issues are insufficient use of contrast, non-labeled elements and the fact that the site is only partly accessible by keyboard.

## 3 ISSUES

This chapter describes the issues found within the scope of this quickscan.

Nr	Problem	Location	WCAG Guideline
1	Many elements don't meet minimum color contrast ratio thresholds. Several elements have a color contrast ratio below 4.5:1. More information about this specific issue is listed under the chapter 'Color Contrast Issues'.	Dashboard (home), Profile, Credentials, Request access, All users, All cases	1.4.3 Contrast
2	Many buttons/links don't have a title (label), such as the hamburger menu, the flag icon, shopping cart, arrows and most dropdown menus. A screenreader will read 'link' or 'button' but doesn't say what happens if you click on it.	Dashboard (home)	4.1.2 Name, Role, Value  2.4.4 Link Purpose
3	Certain ARIA roles must contain particular children. The menu at the left-hand side of the page contains the 'role' attribute with the value 'menu'. The children of this unordered list however do not contain such an attribute. For more information about this issue refer to the following references: "Certain ARIA roles must	Dashboard (home), Profile, Credentials, Request access, All users, All cases	1.3.1 Info & Relationships

	contain particular children” and “ARIA: menu role” listed under the chapter References.		
4	All images that aren’t decorative need a text alternative, so that people using screen readers can hear what the image or icon means. The midPoint logo in the top-left corner of the page doesn’t have an alternative text.	Dashboard (home)	2.4.4 Link Purpose 1.1.1 Non Text contrast
5	Links must have discernible text. The downwards pointing arrow at the right-hand side of the form indicates that a dropdown menu is available (for the pre-defined states), but no such menu exists. Because this downwards arrow is a link, it should have an alternative text.	Profile > Basic > Lifecycle state	4.1.2, 2.4.4
6	Form elements need to be labeled. People who use a screen reader need a label to hear what the element is for.  Labels are missing on most pages, including:  Profile > Basic, Profile > Password, Profile > Personas, Profile > Projections (checkbox left of resource) Profile > Assignments (checkboxes on the left-hand side of ‘Name’ and ‘End user’) Profile > Cases, Users > All users, Cases > All cases Credentials (Current password’ field) Request access > Role catalog Request access > Shopping cart		4.1.2 Name, Role, Value
7	When using ‘tab’ on your keyboard, you should be able to cycle through all interactive elements on the page. Not all interactive elements on the Profile and Request access pages are reachable by keyboard.	Profile, Request access	2.1.1 Keyboard
8	Not all clickable parts have a visible focus (are highlighted) when selected by keyboard.	Profile, Request access, Users > All users, Cases > All cases	2.4.7 Focus Visible
9	Content that appears in the same way on most pages, such as the main navigation, should have a bypass link (skiplink). This is generally the first link you see when you open a new page and press ‘tab’ on keyboard.	Profile, Request access, Users > All users, Cases > All cases	2.4.1 Bypass Blocks
10	The state of the hamburger menu cannot be determined programmatically: it does not contain a value or indication whether it is open or closed.	Dashboard (home), Profile, Credentials, Request access, All users, All cases	4.1.2 Name, Role, Value

<b>11</b>	The state of which of the four tabs is active cannot be determined programmatically. A screen reader currently reads that all tabs are selected, which is not the case.	Request access	1.3.1 4.1.2
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## 4 OTHER FINDINGS

This chapter lists issues that are not necessarily accessibility issues according to WCAG, but that may be bugs, usability issues or other oddities within the application.

Nr	Problem	Location
<b>1</b>	The elements 'id' attributes seem to change upon refreshing the page.	Dashboard (home), Profile, Credentials, Request access, All users, All cases
<b>2</b>	The dropdown menu does not do anything.	Profile > Basic, Profile > Delegations
<b>3</b>	The arrows next to the filter options disappear when clicked, they are also empty.	Request access > Role catalog
<b>4</b>	The four numbers (tabs) indicate that you can interact with them, but nothing happens when you click on it.	Request access
<b>5</b>	When adding a new module, it is strongly advised to make sure this module is fully accessible before adding it.	

## 5 COLOR CONTRAST ISSUES

Due to the rather large amount of color contrast issues it seemed appropriate to create a separate list of the elements that don't have enough contrast. All of these elements are at violation of WCAG guideline 1.4.3: "The visual presentation of text and images of text has a contrast ratio of at least 4.5:1".

Nr	Element	Contrast Ratio	Location
<b>1</b>	The white text at the left-hand side on the top of the page: 'Home', 'Profile', 'Credentials', 'Request access', 'All users' or 'All cases' depending on the page.	3.66	Dashboard (home), Profile, Credentials, Request access, All users, All cases
<b>2</b>	The white text at the right-hand side on the top of the page: 'Home', 'Profile', 'Credentials', 'Request access', 'Users > All users' or 'Cases > All cases' depending on the page.	3.66	Dashboard (home), Profile, Credentials, Request access, All users, All cases

3	The blue 'jdoe' text at the left-hand side on the top of the page.	3.66	Dashboard (home)
4	The white text in the blue button at the left-hand side of the page: 'Home', 'Profile', 'Credentials' or 'Request access', 'Users' or 'Cases' depending on the page.	3.66	Dashboard (home), Profile, Credentials, Request access, All users, All cases
5	The white text on the right-hand side on the top of the page, next to the search field: 'Users', 'Resources' or 'Tasks' depending on which option is selected.	3.66	Dashboard (home)
6	The 'Name' text under the section 'My accesses'.	3.66	Dashboard (home)
7	The 'View all' text under the section 'My accesses'.	3.04	Dashboard (home)
8	The 'Request access' text under the section 'My accesses'.	3.04	Dashboard (home)
9	The 'Name' text under the section 'My Requests'.	3.66	Dashboard (home)
10	The 'Opened' text under the section 'My Requests'.	3.66	Dashboard (home)
11	The 'State' text under the section 'My Requests'.	3.66	Dashboard (home)
12	The "Approving and executing..." text under 'Name', under the section 'My requests'.	3.66	Dashboard (home)
13	The 'View all' text at the bottom of the 'My requests' section.	3.04	Dashboard (home)
14	The 'View all' text at the bottom of the 'My accounts' section.	3.04	Dashboard (home)
15	The grey "Powered by ... midpoint." text in the footer.	3.24	Dashboard (home), Profile, Credentials, Request access, All users, All cases
16	The blue "... Evolveum ..." text in the footer.	3.66	Dashboard (home), Profile, Credentials, Request access, All users, All cases
17	The grey "No active subscription ... purchasing a subscription." text in the footer.	3.24	Dashboard (home), Profile, Credentials, Request access, All users, All cases)
18	The grey '(jdoe)' text next to 'John Doe' on the top of the page.	3.94	Profile
19	The 'Save' button under the section 'Operations'.	3.13	Profile
20	The 'Properties' text.	3.66	Profile > Basic
21	The 'Show empty fields' text.	3.66	Profile > Basic, Profile > Activation, Profile > Password

22	The blue button on the right-hand side of the page, containing the text 'Basic', 'Advanced' or 'Axiom query'.	3.66	Profile > Projections, Profile > All accesses, Profile > Cases, Profile > Personas, All users, All cases, Request access > Role catalog
23	The text 'Debug' if the Advanced setting is selected.	3.66	Profile > Projections
24	The text 'End user'.	3.66	Profile > All accesses, Profile > Assignments
25	The text 'Activation'.	3.66	Profile > Activation
26	The blue button 'Set to "Normal"'.	3.66	Profile > Activation
27	The text 'Password' .	3.66	Profile > Password
28	The blue button 'Change' on the right-hand side of the page.	3.66	Profile > Password
29	The 'Name', 'Opened', 'Closed' and 'State' text.	3.66	Profile > Cases, Cases > All cases
30	The "Approving and executing...." text under 'Name'.	3.66	Profile > Cases
31	The 'Name', 'Given name', 'Family name', 'Full name' and 'Email' text.	3.66	Profile > Personas, Users > All users
32	The green 'Change password' button.	3.13	Credentials
33	The 'Person of interest', 'Relation', 'Role catalog' and 'Shopping cart' text on the top of the page.	3.13	Request access
34	The 'Select for whom ... of team members' text.	3.13	Request access
35	The 'Myself' and 'Group/Others' text.	3.38	Request access
36	The blue/grey 'Back' button.	3.38	Request access
37	The green 'Next: Relation' button.	3.13	Request access
38	The text 'Next: Relation' text within the button itself.	3.13	Request access
39	The blue 'Requesting for myself' button on the right-hand side of 'Role catalog'.	3.04	Request access > Role catalog
40	The selected option ('All roles', 'All organizations', 'all services' or 'Roles of teammate') on the left-hand side of the page.	3.66	Request access > Role catalog
41	The role description text above the 'Add to cart' buttons.	3.38	Request access > Role catalog
42	The blue 'Add to cart' buttons.	3.66	Request access > Role catalog
43	The 'Details' links under the 'Add to cart' buttons.	3.66	Request access > Role catalog
44	The '1 User' text under 'Requesting for'.	3.04	Request access > Shopping cart
45	The 'Clear the shopping cart' button.	3.42	Request access > Shopping cart
46	The green 'Submit my request' button on the right-hand side of the page.	3.13	Request access > Shopping cart
47	The 'jdoe' text under 'Name'.	3.66	Users > All users
48	The 'John Doe (jdoe)' text under 'Object'.	3.66	Cases > All cases
49	The 'Approving and executing...' text under 'Name'.	3.66	Cases > All cases

## **6 REFERENCES**

- [Web Content Accessibility Guidelines \(WCAG\) Overview](#)
- [How to Meet WCAG 2.1 Quick Reference](#)
- [Certain ARIA roles must contain particular children](#)
- [ARIA: menu role](#)
- [W3C Forms tutorial](#)
- [HAN NGI website](#)
- HAN article: [Free Tools For Accessibility Testing](#)