# Accessibility Evaluation Report

M-Files Developer Portal

**M-Files**®

# Contents

# 1. Executive Summary

This report describes the conformance of the M-Files Developer Portal website with W3C's Web Content Accessibility Guidelines (WCAG). The review process is described in Section 5 below and is based on evaluation described in Accessibility Evaluation Resources.

Based on this evaluation, the M-Files Developer Portal website meets mostly WCAG 2.1, Conformance Level AA. Detailed review results are available in Section 6 below. Resources for follow-up study are listed in Section 7 below. Feedback on this evaluation is welcome.

# 2. Background about Evaluation

Conformance evaluation of web accessibility requires a combination of semi-automated evaluation tools and manual evaluation by an experienced reviewer. The evaluation results in this report are based on evaluation conducted on the following dates: 14.9.2020, 15.9.2020 and 16.9.2020. The website may have changed since that time.

# 3. Scope of Review

- M-Files Developer portal
    - The purpose of this website is to provide tailored guidance, tutorials, and samples to software developers looking to extend or integrate with M-Files
- Link to the site: https://developer.m-files.com/
- URLs included in review
    - Reviewed manually and with semi-automated evaluation tools
        - https://developer.m-files.com/
        - https://developer.m-files.com/Getting-Started/ + sub pages
        - https://developer.m-files.com/Built-In/ + sub pages
        - https://developer.m-files.com/APIs/REST-API/ + sub pages
        - https://developer.m-files.com/Frameworks/User-Interface-Extensibility-Framework/ + sub pages
        - https://developer.m-files.com/Frameworks/Vault-Application-Framework/ + sub pages
        - https://developer.m-files.com/UX-Design/ + sub pages
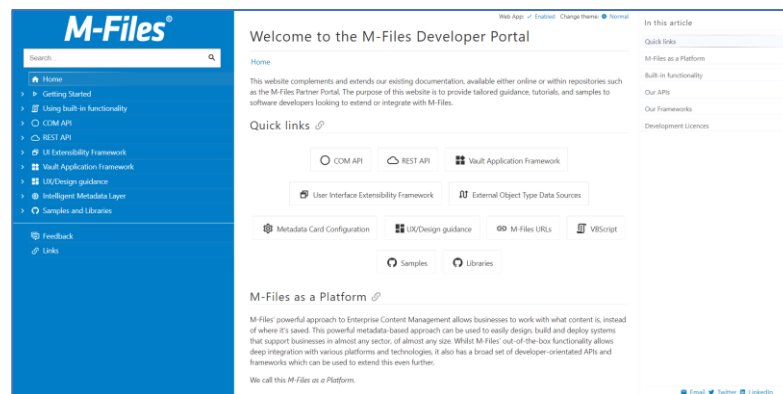        - https://developer.m-files.com/Samples-And-Libraries/ + sub pages

*Figure 1. Home page*

- Review time
    - 14.9.2020, 15.9.2020 and 16.9.2020
- Natural language of website
    - English

# 4. Reviewer(s)

- M-Files UX Team
- Contact
    - ux@m-files.com
- Using Combined Expertise to Evaluate Web Accessibility
- Natural languages with which reviewers are fluent
    - English
    - Finnish

# 5. Review Process

- Site was tested for WCAG 2.1 A, AA and AAA levels
- Evaluation and validation tools used
    - WAVE
    - IBM Accessibility
    - SiteImprove browser extension
    - Google Lighthouse browser extension
- Manual review
    - UX experts going through site with WCAG 2.1 checklist
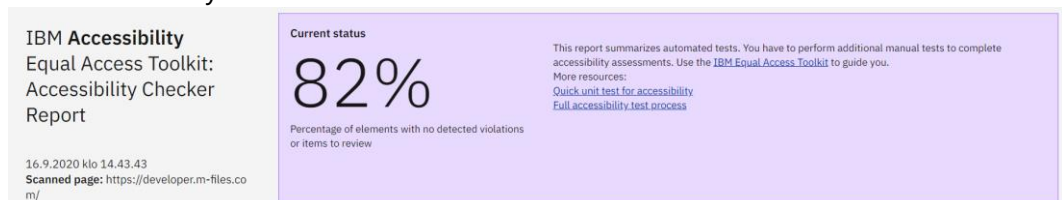
# 6. Results and Recommended Actions

- Summary of review results

- o This website appears to meet mostly WCAG 2.1 A and AA levels. Site also meets some optional AAA level requirements
  - o Accessibility features in which this site is strong include:
    - Visual Presentation
    - Keyboard usage
    - Content sections and headings
  - o Recommended priorities for addressing inaccessible features of site:
    - Blue and white contrast level
    - Link identification only by color
- Detailed results
  - o Website meets following WCAG 2.1 requirements:
    1. [WCAG 1.1.1] Non textual content (Level A)
    2. [WCAG 1.3.2] Meaningful Sequence (Level A)
    3. [WCAG 1.3.3] Sensory Characteristics (Level A)
    4. [WCAG 1.3.4] Orientation (Level AA)
    5. [WCAG 1.3.5] Identify Input Purpose (Level AA)
    6. [WCAG 1.4.4] Resize text (Level AA)
    7. [WCAG 1.4.5] Images of Text (Level AA)
    8. [WCAG 1.4.8] Visual Presentation (Level AAA)
    9. [WCAG 1.4.10] Reflow (Level AA)
    10. [WCAG 1.4.11] Non-text Contrast (Level AA)
    11. [WCAG 1.4.12] Text Spacing (Level AA)
    12. [WCAG 1.4.13] Content on Hover or Focus (Level AA)
    13. [WCAG 2.1.1] Keyboard (Level A)
    14. [WCAG 2.1.2] No Keyboard Trap (Level A)
    15. [WCAG 2.1.3] Keyboard (No Exception) (Level AAA)
    16. [WCAG 2.2.2] Pause, Stop, Hide (Level A)
    17. [WCAG 2.2.3] No Timing (Level AAA)
    18. [WCAG 2.3.1] Three Flashes or Below Threshold (Level A)
    19. [WCAG 2.3.2] Three Flashes (Level AAA)
    20. [WCAG 2.3.3] Animation from interactions (Level AAA)
    21. [WCAG 2.4.1] Bypass Blocks (Level A)
    22. [WCAG 2.4.2] Page Titled (Level A)
    23. [WCAG 2.4.3] Focus Order (Level A)
    24. [WCAG 2.4.4] Link Purpose (in Context) (Level A)
    25. [WCAG 2.4.5] Multiple Ways (Level AA)
    26. [WCAG 2.4.6] Headings and Labels (Level AA)
    27. [WCAG 2.4.7] Focus Visible (Level AA)
    28. [WCAG 2.4.8] Location (Level AAA)
    29. [WCAG 2.4.9] Link Purpose (Link Only) (Level AAA)
    30. [WCAG 2.4.10] Section Headings (Level AAA)
    31. [WCAG 2.5.1] Pointer Gestures (Level A)
    32. [WCAG 2.5.2] Pointer Cancellation (Level A)
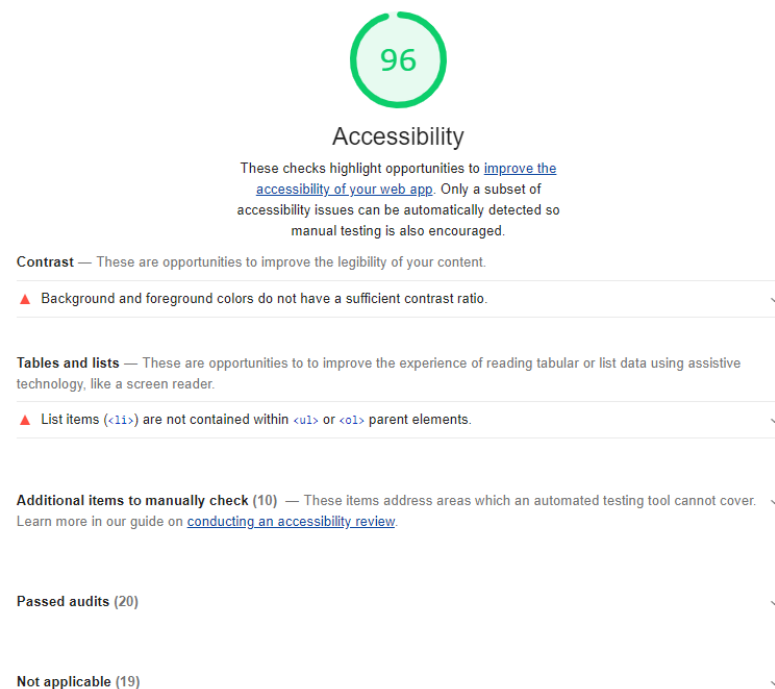    33. [WCAG 2.5.3] Label in Name (Level A)

34. [WCAG 2.5.4] Motion Actuation (Level A)
35. [WCAG 2.5.6] Concurrent Input Mechanisms (Level AAA)
36. [WCAG 3.1.1] Language of Page (Level A)
37. [WCAG 3.1.2] Language Parts (Level AA)
38. [WCAG 3.1.3] Unusual Words (Level AAA)
39. [WCAG 3.1.4] Abbreviations (Level AAA)
40. [WCAG 3.2.1] On Focus (Level A)
41. [WCAG 3.2.2] On Input (Level A)
42. [WCAG 3.2.3] Consistent Navigation (Level AA)
43. [WCAG 3.2.4] Consistent Identification (Level AA)
44. [WCAG 3.3.1] Error Identification (Level A)
45. [WCAG 3.3.2] Labels or Instructions (Level A)
46. [WCAG 3.3.3] Error Suggestion (Level AA)
47. [WCAG 3.3.4] Error Prevention (Legal, Financial, Data) (Level AA)
48. [WCAG 3.3.5] Help (Level AAA)
49. [WCAG 4.1.1] Parsing (Level A)
50. [WCAG 4.1.3] Status Messages (Level AA)

- Website do not meet following WCAG 2.1 requirements:
  1. [WCAG 1.3.1] Info and Relationships (Level A)
     - Landmarks of the same type that has not been named
  2. [WCAG 1.4.1] Use of Color. (Level A)
     - Some links only identified only by color
  3. [WCAG 1.4.3] Contrast (Minimum) (Level AA)
     - Color contrast is 4.42/4.5 in some sections
  4. [WCAG 4.1.2] Name, Role, Value (Level A)
     - Redundant WAI-ARIA attribute
- Excluded WCAG 2.1 requirements from Website:
  1. [WCAG 1.2.1 - 1.2.9] Time-based Media
     - There is no time-based media (except stored objects)
  2. [WCAG 1.3.6] Identify Purpose (Level AAA)
     - Optional requirement
  3. [WCAG 1.4.2] Audio Control (Level AA)
     - There is no build in audio player (only external)
  4. [WCAG 1.4.6] 1.4.6 Contrast (Enhanced) (Level AAA)
     - Optional requirement
  5. [WCAG 1.4.7] 1.4.7 Low or No Background Audio (Level AAA)
     - Optional requirement
  6. [WCAG 1.4.9] Images of Text (No exception) (Level AAA)
     - Optional requirement
  7. [WCAG 2.1.4] Character Key Shortcuts (Level A)
     - Not implemented
  8. [WCAG 2.2.1] Timing Adjustable (Level A)
     - No time limits
  9. [WCAG 2.2.4] Interruptions (Level AAA)

- Optional requirement
10. [WCAG 2.2.5] Re-authenticating  (Level AAA)
    - Optional requirement
11. [WCAG 2.2.6] Timeouts
    - No time limits
12. [WCAG 2.5.5] Target Size (Level AAA)
    - Optional requirement
13. [WCAG 3.1.5] Reading level (Level AAA)
    - Optional requirement
14. [WCAG 3.1.6] Pronunciation (Level AAA)
    - Optional requirement
15. [WCAG 3.2.5] Change on Request (Level AAA)
    - Optional requirement
16. [WCAG 3.3.6] Error Prevention (All) (Level AAA)
    - Optional requirement

- IBM Accessibility evaluation tool results:



- Lighthouse Google evaluation tool results:



- UX-team continues to monitor website for accessibility issues and improvements

# 7. References

- Web Content Accessibility Guidelines (WCAG) Overview
  https://www.w3.org/WAI/intro/wcag

- Web Content Accessibility Guidelines 2.1
  https://www.w3.org/TR/WCAG21/

- Techniques for WCAG 2.1
  https://www.w3.org/WAI/WCAG21/Techniques/

- Accessibility Evaluation Resources
  http://www.w3.org/WAI/eval/

- Web Accessibility Evaluation Tools List
  https://www.w3.org/WAI/ER/tools/

- Using Combined Expertise to Evaluate Web Accessibility
  https://www.w3.org/WAI/eval/reviewteams