

High-level accessibility review – BTAA (Mergent Online - final version)

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High-level accessibility review – Mergent Online

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Mergent Online

Summary (top 3 problems for Mergent Online)

This assessment covers portions of the Mergent Online application. The assessment revealed significant problems with screen reader compatibility and keyboard-only navigation. Screen reader users are not provided with critical information needed for understanding forms. Keyboard-only users are not able to operate certain parts of the interface.

1. **Form controls are not labeled** – Visual form control labels are not programmatically associated with their inputs. This will cause significant hardship for people who use screen readers because the purpose of form controls is not obvious without the programmatic association.
2. **Screen reader compatibility** – Several parts of the application are incompatible with screen readers. Important information like roles, states, and properties of tabs and autocomplete components are not provided to screen readers. Many screen reader users will find this lack of information about the interface frustrating. Additionally, PDF documents are untagged, which will make it very difficult for screen reader users to use.
3. **Color contrast not met** – There are many instances throughout the application where minimum color contrast requirements are not met. This will make it difficult for people with low vision and/or color blindness to use the application.

Accessibility findings

Project wide issues

The issues presented in this section were identified in multiple pages and are recorded here to avoid repetition. These are applicable to each screen. Due to particularities, similar issues are reported on a page per page basis, where applicable.

Automated findings using Axe

- **SC 1.1.1** – The image to expand “My Mergent Tools” must have alt text.
- **SC 3.1.1** – The <html> element must have a lang attribute.
- **SC 4.1.1** – ID attributes must be unique.

Issues found through automated testing come from the Axe plugin, an open source accessibility testing tool that is available for Firefox and Chrome. Details here: <https://www.deque.com/products/axe/>.

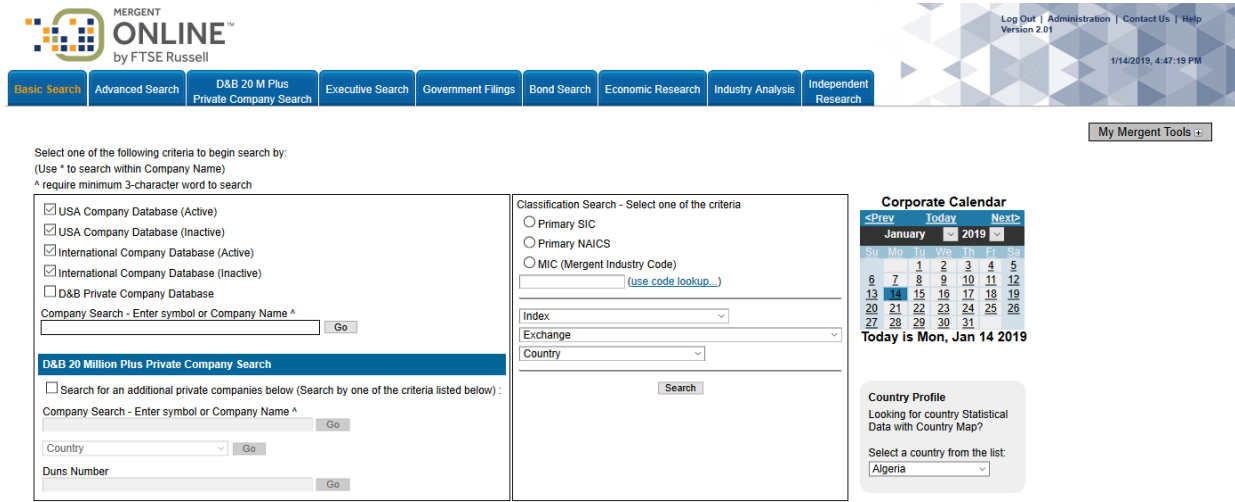
Additional manual findings using NVDA screen reader

- **SC 1.4.3** – The selected navigation tab must have sufficient color contrast.
- **SC 1.4.3** – All header links must have sufficient color contrast with background image.
- **SC 2.1.1** – “My Mergent Tools” button must be usable by keyboard alone.
- **SC 4.1.2** – “My Mergent Tools” button must communicate its change of state to assistive technologies.

1. Mergent Online landing page

Source: <http://www.mergentonline.com/basicsearch.php>

Test case: Test platform landing page, including tabs at the top, checkboxes, dropdowns, company search, etc.



Automated findings using Axe

- **SC 1.4.3** – Elements in the “corporate calendar” must have sufficient color contrast.
- **SC 3.3.2** – All form controls must have programmatic labels.

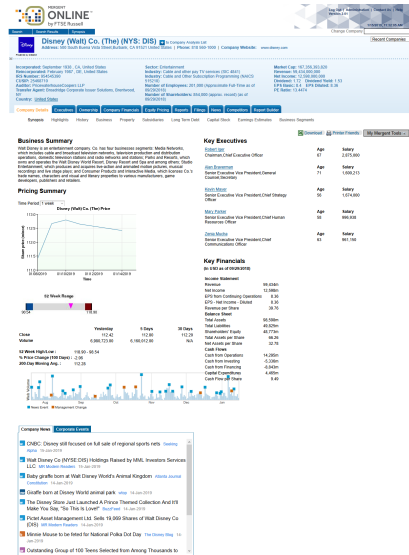
Additional manual findings using NVDA screen reader

- **SC 1.3.1** – Groups of checkboxes and radio buttons must be programmatically grouped with a fieldset and legend.
- **SC 1.3.1** – Groups of related form controls must be programmatically grouped with a fieldset and legend.
- **SC 1.3.1** – Visual headings “Corporate Calendar” and “Country Profile” must be marked up as headings.
- **SC 2.1.1** – “Corporate Calendar” must be usable by keyboard alone.
- **SC 2.4.1** – Pages must contain a skip link, proper heading structure, and/or landmarks
- **SC 3.3.2** – The industry code text input must have a visible label.

3. Search results page for Disney

Source: <http://www.mergentonline.com/companydetail.php?pagetype=synopsis&compnumber=2488>

Test case: Test search results page for Disney – how accessible is the text, tabs (and grey subtabs), graph(s), boxes that pop up over links (example under key executives) etc.



Automated findings using Axe

- **SC 1.1.1** – The company logo must have alternative text.
- **SC 1.1.1** – Images to expand/collapse content must have alternative text.
- **SC 1.1.1** – All graphs must have alternative text.
- **SC 1.1.1** – Download and print images must have alternative text.
- **SC 1.3.1** – All form controls must have programmatic labels.
- **SC 1.4.3** – “Change Company” label must have sufficient color contrast.
- **SC 1.4.3** – Source and date text under “Company News” must have sufficient color contrast.
- **SC 2.4.2** – All frames must have a title attribute.

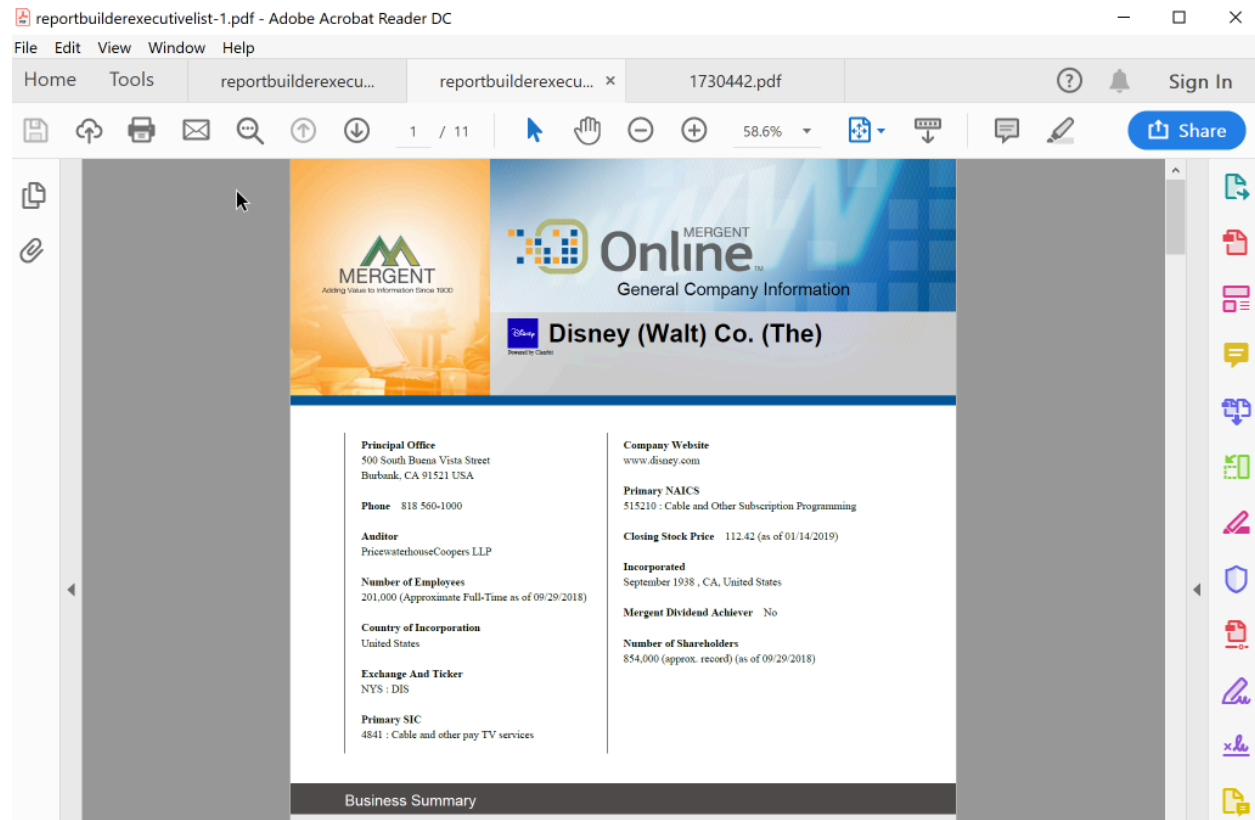
Additional manual findings using NVDA screen reader

- **SC 1.3.1** – The visual heading “Disney (Walt) Co...” must be marked up as a heading.
- **SC 1.3.1** – All four data tables must have proper column and row headers.
- **SC 1.4.1** – Color alone must not be used to indicate the current tab (under main tabs)
- **SC 1.4.3** – Blue text in the company summary must have sufficient color contrast.
- **SC 2.1.1** – Tooltips on tabs and other links must be usable by keyboard alone.
- **SC 2.1.1** – Data points on the “web volume” chart must be usable by keyboard alone.
- **SC 4.1.2** – Tooltips on tabs and other links must be screen reader accessible.
- **SC 4.1.2** – “company news” and “corporate events” tabs must have tab semantics (name, role, value, etc).
- **SC 4.1.2** – Buttons to expand/collapse content must communicate their change of state to assistive technologies.
- **SC 4.2.1** – Data points on the “web volume” must have name and role to be screen reader accessible.

4. Test PDFs

Source: <http://www.mergentonline.com/companyexecutives.php?compnumber=2488>

Test case: From the search results page, test one of the PDFs you can download from the Executive tabs. Is it accessible? What about PDFs under the Reports tab (have to click one of the links)?



Specific findings about the PDF download using NVDA screen reader

The PDF documents under the Executive tabs and the Reports tab are untagged PDF documents, with very limited capabilities in terms of accessibility. Some of the issues found in the PDF documents include:

- The documents are not tagged and contain no tagging structure
- The documents do not have any headings to help make sense of the content structure
- No semantics are provided to help screen reader users navigate through the PDFs
- Images are not marked up and provided with appropriate alt text
- Screen readers struggle reading through the content as it currently is presented
- The documents show their filename instead of the document title by default
- The primary language of the documents is not identified as being English
- The documents are not assigned a meaningful descriptive title
- The documents do not offer a list of bookmarks to navigate through the content
- Etc.

5. Company financials tab

Source: <http://www.mergentonline.com/companyfinancials.php?compnumber=2488>

Test case: From the Company financials tab, is the table accessible?

The screenshot shows a financial statement table for Disney (Walt Co. (The) (NYSE: DIS)). The table is titled "Balance Sheet" and includes columns for "2018", "2017", "2016", "2015", and "2014". The rows list various financial items such as "Cash and cash equivalents", "Accounts receivable", "Prepaid expenses", "Other receivables", "Accounts payable", "Accrued liabilities", "Deferred revenue", "Goodwill", "Intangible assets", "Other assets", "Total assets", "Accounts payable", "Accrued liabilities", "Deferred revenue", "Other liabilities", "Total liabilities", "Total equity", and "Total liabilities and equity". The table is presented in a standard grid format with numerical values for each item across the five years.

Automated findings using Axe

- **SC 1.1.1** – The tooltip images must have alternative text.
- **SC 1.3.1** – All form controls must have programmatic labels.

Additional manual findings using NVDA screen reader

- **SC 1.3.1** – Cells reserved for tooltips must have a column header.
- **SC 1.3.1** – Rows 2-5 must not be marked up as column headers.
- **SC 1.3.1** – First column of each row should be marked up as a row header.
- **SC 2.1.1** – Tooltips must be usable by keyboard alone.
- **SC 4.1.2** – Tooltips must be screen reader accessible.

6. Test the advanced search tab/interface.

Source: <http://www.mergentonline.com/advancedsearch.php>

Test case: Test the advanced search tab/interface. Are the checkboxes accessible? Are the plus sign icons/options under “corporate information” accessible, etc? (You don’t need to do an actual search, the search results page for Disney from the advanced search would be the same as a basic search.

Select one of the following criteria below to create your screen: [\(Load a previous Search\)](#)

1) Select Target Universe

USA Company Database (Active) International Company Database (Active)

USA Company Database (Inactive) International Company Database (Inactive)

D&B Private Company Database

* indicates searchable in private database
 ^ require minimum 3-character word to search (use * for partial text search)

Country Profile
 Looking for country Statistical Data with Country Map?
 Select a country from the list:
 Select a Country

| Corporate Information | Executives | Financials | Industry Codes | Pricing | Ratios | Textual Search | Index |
|---|---|------------|----------------|---------|--------|---|-------|
| Select All Criteria Reset Please click ">> submit" button to execute search | <input type="checkbox"/> Company Name ** <input type="checkbox"/> State * <input type="checkbox"/> City * <input type="checkbox"/> Zip Code * <input type="checkbox"/> Year Incorporated/Founded * <input type="checkbox"/> Stock Exchange * <input type="checkbox"/> State of Incorporation * <input type="checkbox"/> Country of Incorporation * | | | | | | |
| | | | | | | <input type="checkbox"/> Country of Operations <input type="checkbox"/> Number of Employees * <input type="checkbox"/> Number of Shareholders <input type="checkbox"/> Legal Counsel <input type="checkbox"/> Subsidiary ^ <input type="checkbox"/> Transfer Agent <input type="checkbox"/> Auditor | |

Automated findings using Axe

- **SC 1.3.1** – All checkboxes must have programmatic labels.

Additional manual findings using NVDA screen reader

- **SC 1.3.1** – Group of checkboxes under “Select Target Universe” must be programmatically grouped with a fieldset and legend.
- **SC 1.3.1** – All form controls for search parameters must have programmatic labels.
- **SC 1.4.3** – Links to add search parameters must have sufficient color contrast.
- **SC 2.1.1** – Search tabs must be keyboard accessible.
- **SC 3.3.2** – All form controls for search parameters must have visible labels.
- **SC 2.4.4** – “+” links to add search parameters must have labels that describe their purpose.
- **SC 2.4.7** – Links to add search parameters must provide a visual focus indicator.
- **SC 4.1.2** – Search tabs must have tab semantics (name, role, value, etc).
- **SC 4.1.2** – “Select All Criteria” and “Reset” links must have an href attribute to convey link semantics.