# LD-Explorer Accessibility Conformance Report

# WCAG Edition

**(Based on VPAT**® **Version 2.5)**

## Name of Product/Version: LD-Explorer version 0.1.0

## Report Date: 11 July 2024

## Product Description: LD-Explorer is a prototype software application that aims to enable both experts and newcomers to experiment with, and demonstrate approaches to, knowledge graphs and linked data.

## Contact Information: Raise issue on github.

## Notes: Individual ICDS components used in the app have been tested against WCAG 2.2 Level AA with NVDA, VoiceOver, and several different users with different interaction methods. Level AAA is not being evaluated so the table has been removed from this document. Legal Disclaimer section also removed as not applicable.

## Evaluation Methods Used: AXE automated testing, VoiceOver screen reader, WAVE Web Accessibility Evaluation Tool, manual testing

## 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](http://www.w3.org/TR/2008/REC-WCAG20-20081211) | Level A (Yes)  Level AA (Yes)  Level AAA (No) |
| [Web Content Accessibility Guidelines 2.1](https://www.w3.org/TR/WCAG21) | Level A (Yes)  Level AA (Yes)  Level AAA (No) |
| [Web Content Accessibility Guidelines 2.2](https://www.w3.org/TR/WCAG22/) | 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.
* **Not Evaluated**: The product has not been evaluated against the criterion. This can only be used in WCAG Level AAA criteria.

## WCAG 2.2 Report

Note: When reporting on conformance with the WCAG 2.2 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](https://www.w3.org/TR/WCAG20/#conformance-reqs).

### Table 1: Success Criteria, Level A

Notes:

| **Criteria** | | **Conformance Level** | **Remarks and Explanations** | |
| --- | --- | --- | --- | --- |
| [**1.1.1 Non-text Content**](http://www.w3.org/TR/WCAG20/#text-equiv-all) (Level A) | Supports | | | Non-text content is presented to user with text alternative |
| [**1.2.1 Audio-only and Video-only (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-av-only-alt) (Level A) | Not Applicable | | | The app does not contain any audio-only or video-only content |
| [**1.2.2 Captions (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-captions) (Level A) | Not Applicable | | | The app does not contain any prerecorded audio content |
| [**1.2.3 Audio Description or Media Alternative (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc) (Level A) | Not Applicable | | | The app does not contain any time-based media or prerecorded video content |
| [**1.3.1 Info and Relationships**](http://www.w3.org/TR/WCAG20/#content-structure-separation-programmatic) (Level A) | Supports | | | The app uses standard semantic elements to markup structure and aria-labelledby to name some regions and landmarks of webpages, e.g. navigation |
| [**1.3.2 Meaningful Sequence**](http://www.w3.org/TR/WCAG20/#content-structure-separation-sequence) (Level A) | Supports | | | The app uses markup structure to support the default presentation of web pages, so that the meaning evident visually in the sequencing of information is largely the same when the content is presented in spoken form |
| [**1.3.3 Sensory Characteristics**](http://www.w3.org/TR/WCAG20/#content-structure-separation-understanding) (Level A) | Not Applicable | | | The app does not include content that relies solely on sensory characteristics |
| [**1.4.1 Use of Color**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-without-color) (Level A) | Supports | | | The app does not use color as the only visual means of conveying information, e.g. required fields are indicated by accompanying text, an icon and red color |
| [**1.4.2 Audio Control**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-dis-audio) (Level A) | Not Applicable | | | The app does not contain any audio |
| [**2.1.1 Keyboard**](http://www.w3.org/TR/WCAG20/#keyboard-operation-keyboard-operable) (Level A) | Supports | | | The app is operable through a keyboard interface. |
| [**2.1.2 No Keyboard Trap**](http://www.w3.org/TR/WCAG20/#keyboard-operation-trapping) (Level A) | Supports | | | No keyboard trap exists in the app - keyboard focus can be moved away from components using only keyboard interface |
| [**2.1.4 Character Key Shortcuts**](https://www.w3.org/TR/WCAG21/#character-key-shortcuts) (Level A 2.1 and 2.2) | Not Applicable | | | The app does not use single character key shortcuts |
| [**2.2.1 Timing Adjustable**](http://www.w3.org/TR/WCAG20/#time-limits-required-behaviors) (Level A) | Not Applicable | | | The app does not implement time limits on content |
| [**2.2.2 Pause, Stop, Hide**](http://www.w3.org/TR/WCAG20/#time-limits-pause) (Level A) | Supports | | | The Explore section of the app provides an auto-update of the query status of currently active data sources which starts automatically and is presented alongside other content. However, this can be halted by the user. |
| [**2.3.1 Three Flashes or Below Threshold**](http://www.w3.org/TR/WCAG20/#seizure-does-not-violate) (Level A) | Supports | | | The app does not contain anything that flashes more than three times in any one second period |
| [**2.4.1 Bypass Blocks**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-skip) (Level A) | Supports | | | The app includes ‘Back to Top’ component to enable users to easily return the top of the page, and a ‘Skip to main content’ component to enable the early navigation to be skipped. |
| [**2.4.2 Page Titled**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-title) (Level A) | Supports | | | The app provides descriptive titles for web pages using the heading and sub-heading elements, and on-page tabs are described using the title and description elements |
| [**2.4.3 Focus Order**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-order) (Level A) | Supports | | | The interactive elements of web pages are in an order that follows the sequences and relationships within the content, e.g. form fields placed sequentially where the first field to be completed is placed first, the second field placed second etc. Visible highlighting is also used on links and buttons when they receive keyboard focus |
| [**2.4.4 Link Purpose (In Context)**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-refs) (Level A) | Supports | | | The app uses the text of the link to describe the purpose of the link |
| [**2.5.1 Pointer Gestures**](https://www.w3.org/TR/WCAG21/#pointer-gestures) (Level A 2.1 and 2.2) | Not Applicable | | | The app does not use any multipoint or path-based gestures for operations |
| [**2.5.2 Pointer Cancellation**](https://www.w3.org/TR/WCAG21/#pointer-cancellation) (Level A 2.1 and 2.2) | Supports | | | The down-event of the pointer is not used to execute any function in the app, and mechanisms are available within the app to undo functions after completion, e.g. Reset button |
| [**2.5.3 Label in Name**](https://www.w3.org/TR/WCAG21/#label-in-name) (Level A 2.1 and 2.2) | Supports | | | The app uses visible label text as part of the accessible name, and the aria-label attribute is included on some interactive elements e.g. buttons |
| [**2.5.4 Motion Actuation**](https://www.w3.org/TR/WCAG21/#motion-actuation) (Level A 2.1 and 2.2) | Not Applicable | | | The app does not implement functionality that needs to be operated using device or user motion |
| [**3.1.1 Language of Page**](http://www.w3.org/TR/WCAG20/#meaning-doc-lang-id) (Level A) | Supports | | | The app specifies the default human language as English using the language attribute on the HTML element, i.e. <html lang=”en”> |
| [**3.2.1 On Focus**](http://www.w3.org/TR/WCAG20/#consistent-behavior-receive-focus) (Level A) | Supports | | | The app does not automatically initiate a change of context when a component receives focus, e.g. on the SPARQL UI page the ‘Select pre-built query’ dropdown menu allows the user to shift focus out of the dropdown without changing context |
| [**3.2.2 On Input**](http://www.w3.org/TR/WCAG20/#consistent-behavior-unpredictable-change) (Level A) | Supports | | | The app provides ‘submit’ and ‘apply’ buttons on forms to initiate a change of context |
| [**3.2.6 Consistent Help**](https://www.w3.org/TR/WCAG22/#consistent-help)(Level A 2.2 only) | Supports | | | The app includes help content, i.e. Getting Started, FAQs, Resources and Contact, in the About section which can be accessed from the side navigation that appears on all web pages |
| [**3.3.1 Error Identification**](http://www.w3.org/TR/WCAG20/#minimize-error-identified) (Level A) | Supports | | | The app uses client-side validation and alert to provide text descriptions to users so that they can identify required fields not completed in forms |
| [**3.3.2 Labels or Instructions**](http://www.w3.org/TR/WCAG20/#minimize-error-cues) (Level A) | Supports | | | The app provides text instructions with fields that describe the necessary input, and text descriptions to identify required fields that were not completed |
| [**3.3.7 Redundant Entry**](https://www.w3.org/TR/WCAG22/#redundant-entry)(Level A 2.2 only) | Supports | | | The app displays and retains previously entered information during the session, e.g. user can input information to add a remote or local data source; once submitted, the user can edit the information without re-entering |
| [**4.1.1 Parsing**](http://www.w3.org/TR/WCAG20/#ensure-compat-parses) (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](https://www.w3.org/WAI/WCAG20/errata/#editorial) and the [WCAG 2.1 Editorial Errata](https://www.w3.org/WAI/WCAG21/errata/#editorial). |
| [**4.1.2 Name, Role, Value**](http://www.w3.org/TR/WCAG20/#ensure-compat-rsv) (Level A) | Supports | | | The app uses standard markup with (where applicable) aria-label and aria-labelledby attributes to ensure names, roles and values can be programmatically determined by assistive technology |

### Table 2: Success Criteria, Level AA

Notes:

| **Criteria** | | **Conformance Level** | **Remarks and Explanations** | |
| --- | --- | --- | --- | --- |
| [**1.2.4 Captions (Live)**](http://www.w3.org/TR/WCAG20/#media-equiv-real-time-captions) (Level AA) | Not Applicable | | | The app does not contain any live audio content |
| [**1.2.5 Audio Description (Prerecorded)**](http://www.w3.org/TR/WCAG20/#media-equiv-audio-desc-only) (Level AA) | Not Applicable | | | The app does not contain any prerecorded video content |
| [**1.3.4 Orientation**](https://www.w3.org/TR/WCAG21/#orientation) (Level AA 2.1 and 2.2) | Not Applicable | | | The orientation of the app is not locked |
| [**1.3.5 Identify Input Purpose**](https://www.w3.org/TR/WCAG21/#identify-input-purpose) (Level AA 2.1 and 2.2) | Not Applicable | | | The app does not contain input fields that collect information about the user |
| [**1.4.3 Contrast (Minimum)**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-contrast) (Level AA) | Supports | | | The app has a contrast ratio that meets or is above the minimum 4.5:1 ratio |
| [**1.4.4 Resize text**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-scale) (Level AA) | Supports | | | The app implements text container resizing so that it can be resized up to 200% without loss of content or functionality |
| [**1.4.5 Images of Text**](http://www.w3.org/TR/WCAG20/#visual-audio-contrast-text-presentation) (Level AA) | Not Applicable | | | The app does not contain images of text |
| [**1.4.10 Reflow**](https://www.w3.org/TR/WCAG21/#reflow) (Level AA 2.1 and 2.2) | Supports | | | Main web page content can be presented without loss of information or functionality up to a 500% zoom. |
| [**1.4.11 Non-text Contrast**](https://www.w3.org/TR/WCAG21/#non-text-contrast) (Level AA 2.1 and 2.2) | Supports | | | The app uses color to distinguish between button types, i.e. Primary button, Secondary button, Destructive button etc. ICDS Button components have been used in the app to ensure good color contrast |
| [**1.4.12 Text Spacing**](https://www.w3.org/TR/WCAG21/#text-spacing) (Level AA 2.1 and 2.2) | Supports | | | The app was tested using Text Spacing Bookmarklet and there was no loss of content or functionality under test |
| [**1.4.13 Content on Hover or Focus**](https://www.w3.org/TR/WCAG21/#content-on-hover-or-focus) (Level AA 2.1 and 2.2) | Supports | | | Tooltips in the side menu of the app are displayed as additional content when triggered by receiving focus or on hover; they are dismissible using the ESC key, are persistent and hoverable |
| [**2.4.5 Multiple Ways**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-mult-loc) (Level AA) | Supports | | | The app provides links to related web pages and the side navigation is available on all web pages. A search function is available on the IRI detail page. A site map is available via the application footer. |
| [**2.4.6 Headings and Labels**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-descriptive) (Level AA) | Supports | | | The app provides headings for each page with a description of the page content. Descriptive labels are also used on buttons and form fields in the app |
| [**2.4.7 Focus Visible**](http://www.w3.org/TR/WCAG20/#navigation-mechanisms-focus-visible) (Level AA) | Supports | | | The app displays a visible border when a user interface control, e.g. a button, receives focus |
| [**2.4.11 Focus Not Obscured (Minimum)**](https://www.w3.org/TR/WCAG22/#focus-not-obscured-minimum) (Level AA 2.2 only) | Supports | | | The app keeps user interface items visible when in focus, e.g. a non-modal dialog appearing below an item in focus so that it is not obscured |
| [**2.5.7 Dragging Movements**](https://www.w3.org/TR/WCAG22/#dragging-movements)(Level AA 2.2 only) | Not Applicable | | | The app does not include functionality that requires dragging movement |
| [**2.5.8 Target Size (Minimum)**](https://www.w3.org/TR/WCAG22/#target-size-minimum)(Level AA 2.2 only) | Supports | | | The app uses the side navigation and pagination components from ICDS that has been tested against WCAG 2.2 Level AA. |
| [**3.1.2 Language of Parts**](http://www.w3.org/TR/WCAG20/#meaning-other-lang-id) (Level AA) | Supports | | | The app specifies the default human language as English using the language attribute on the HTML element, i.e. <html lang=”en”> |
| [**3.2.3 Consistent Navigation**](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-locations) (Level AA) | Supports | | | The app uses a consistent layout of side navigation panel and navigation links across all web pages |
| [**3.2.4 Consistent Identification**](http://www.w3.org/TR/WCAG20/#consistent-behavior-consistent-functionality) (Level AA) | Supports | | | The app uses Button and Link components from ICDS for consistent identification |
| [**3.3.3 Error Suggestion**](http://www.w3.org/TR/WCAG20/#minimize-error-suggestions) (Level AA) | Supports | | | The app uses client-side validation and provides an alert dialog box to users identifying mandatory fields not completed in forms |
| [**3.3.4 Error Prevention (Legal, Financial, Data)**](http://www.w3.org/TR/WCAG20/#minimize-error-reversible) (Level AA) | Not Applicable | | | The app does not cause legal commitments or financial transactions for the user to occur or delete data in data storage systems |
| [**3.3.8 Accessible Authentication (Minimum)**](https://www.w3.org/TR/WCAG22/#accessible-authentication-minimum) (Level AA 2.2 only) | Not Applicable | | | The app does not require any user authentication |
| [**4.1.3 Status Messages**](https://www.w3.org/TR/WCAG21/#status-messages)(Level AA 2.1 and 2.2) | Supports | | | Status messages are presented/announced to users of assistive technologies without receiving focus |

### Table 3: Success Criteria, Level AAA

Notes: Table has been removed as the application is not being assessed at this level