![embarcadero logo]

Section 508 Rehabilitation Act Voluntary Product Accessibility

Embarcadero RAD Studio, Delphi® and C++Builder® Products

July 2015

Overview

This document assesses the Embarcadero Delphi® and C++Builder® products, which are software development tools products. In order to assess these products, a set of task deemed critical functions of the products were performed. The findings of those evaluations are contained in this document. This information is current as of July 2015.

Criteria	Supporting Features	Remarks and explanations
Section 1194.21 Software Applications and Operating Systems	See Section 1194.21 below	Embarcadero Delphi and C++Builder are software applications. They are also used by developers for building software applications.
Section 1194.22 Web-based Internet Information and Applications	There are some screens written in HTML, which are evaluated in Section 1194.22 below.	Embarcadero Delphi and C++Builder are not primarily considered web-based internet information and application products.
Section 1194.23 Telecommunications Products	Not Applicable	Embarcadero Delphi and C++Builder are not telecommunications products.
Section 1194.24 Video and Multi-media Products	Not Applicable	Embarcadero Delphi and C++Builder are not multimedia products.
Section 1194.25 Self-Contained, Closed Products	Not Applicable	Embarcadero Delphi and C++Builder are not self-contained products.
Section 1194.26 Desktop and Portable Computers	Not Applicable	Embarcadero Delphi and C++Builder are not a desktop or portable computer.
Section 1194.31 Functional Performance Criteria	See Section 1194.31 below.	
Section 1194.41 Information, Documentation and Support	See Section 1194.41 below.	

Section 1194.21 Software Applications and Operating Systems – Detail

Criteria	Supporting Features	Remarks and explanations
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	Supported with exceptions.	Embarcadero Delphi and C++Builder include support for accessing almost all functions using only a keyboard with minor exceptions. IDE Insight allow users to find any function or feature at a touch of one key (F6). Equivalent facilitation is achieved via the keyboard through other mechanisms, such as the MSAA accessibility options such as MouseKeys.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	Supported with exceptions.	Operating systems provide accessibility features that allow disabled users to customize their preferences. The applications preserve those accessibility user preference settings. For example, if the user selects High Contrast Mode, this option will continue to be activated when using the application. Embarcadero Delphi and C++Builder do not disrupt or disable accessibility features of the operating system.
(c) A well defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive Technology can track focus and focus changes.	Supported with Exceptions.	When using the application with a keyboard, users can tell where they are on the screen and the information is available to assistive technologies to communicate screen location to visually impaired users. The following areas don't support the criteria: Focus is not always clear in the Help System.

(d) Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive Technology. When an image represents a program element, the information conveyed by the image must also be available in text.	Supported.	Embarcadero Delphi and C++Builder allow a screen reader to describe the user interface environment and controls. They will allow them to know if they are on a tab or radio button and what the status of that button is.
(e) When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.	Supported.	Embarcadero Delphi and C++Builder provide consistent use of bitmapped images.
(f) Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.	Supported with exceptions.	Text information is accessible so assistive technologies can communicate content, attributes, and cursor location. Embarcadero Delphi and C++Builder support this requirement with minor exceptions. Embarcadero Delphi and C++Builder do not always use Windows font size settings. Users can set the larger font size via the tools option menu. However, larger font size settings within the IDE are not used in every pane.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supported with exceptions.	Embarcadero Delphi and C++Builder do not override user selected contrast and color selections or display attributes with minor exceptions. The products provide excellent support for the Color Display Settings for backgrounds. Some user interface elements, such as the Data Explorer and Tool Palette, only respond to Contrast but not to size settings. Some dialog boxes and panes do not properly support High Contrast mode (background color does change, font color and font size change in some panes but not others).
(h) When animation is displayed, the information shall be displayable in at least one non-animated	Supported.	Embarcadero Delphi and C++Builder

presentation mode at the option of the user.		products do not use animation.
(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supported.	In Embarcadero Delphi and C++Builder colors are used only as an enhancement, to convey non-critical information. Color is used to distinguish text state, such as code syntax elements, and the editor is fully customizable for High Contrast.
(j) When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	Supported.	Embarcadero Delphi and C++Builder allow for user customizations. This functionality is based on the Operating Systems support and customizable by the user.
(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	Supported.	Embarcadero Delphi and C++Builder products do not use flashing or blinking objects.
(l) When electronic forms are used, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	Not Applicable.	This functionality does not apply to Embarcadero Delphi and C++Builder products.

Section 1194.22 Web-based Internet information and applications – Detail

Criteria	Supporting Features	Remarks and explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Supported.	
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not Applicable.	This requirement does not apply to Embarcadero Delphi and C++Builder products.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for	Supported.	Color is not used as the sole means of conveying information.

example from context or markup.		
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Supported.	
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not Applicable.	This requirement does not apply to Embarcadero Delphi and C++Builder products.
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Not Applicable.	This requirement does not apply to Embarcadero Delphi and C++Builder products.
(g) Row and column headers shall be identified for data tables.	Supported.	
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Supported.	
(i) Frames shall be titled with text that facilitates frame identification and navigation	Supported.	
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supported.	Embarcadero Delphi and C++Builder do not use flashing or blinking objects.
(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	Not Applicable.	This requirement does not apply to Embarcadero Delphi and C++Builder products.
(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.	Supported.	
(m) When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).	Supported.	
(n) When electronic forms are designed to be completed on-line, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions	Not Applicable.	

and cues.		
(o) A method shall be provided that permits users to skip repetitive navigation links.	Supported.	
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supported.	

Section 1194.31 Functional Performance Criteria – Detail

Criteria	Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supported.	
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.	Supported with exceptions.	Embarcadero Delphi and C++Builder provide functionality that conforms to these criteria with exceptions described in Section 1194.22
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided	Supported.	
(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.	Supported.	
(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.	Not Applicable.	
(f) At least one mode of operation and information retrieval that does not require fine motor control or	Supported.	Embarcadero Delphi and C++Builder can be used from the keyboard in

simultaneous actions and that is operable with limited reach and strength shall be provided.		conjunction with accessibility options at the OS level.

Section 1194.41 Information, Documentation and Support – Detail

Criteria	Supporting Features	Remarks and explanations
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge	Supported.	
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Supported.	
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported.	Embarcadero Delphi and C++Builder are supported via the Embarcadero website and in documentation.