

## Section 508 Evaluation

**Date:** July 13, 2009

**Name of Product:** Chronicle Graphics TimeArrow® v3.0

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**Summary Table**

<i>Criteria</i>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
Section 1194.21 <a href="#">Software Applications and Operating Systems</a>	Supported	<p>TimeArrow leverages the Microsoft .NET Framework to employ standard Windows accessibility features. Application features throughout are labeled with text or tool tips for use with Assistive Technology. Object focus is visually displayed in a standard fashion, and a wide array of color choices are given to the end user. Keyboard navigation is possible for all menus and forms.</p> <p>Graphical elements can be edited with the keyboard, but must first be selected with a mouse.</p>
Section 1194.31 <a href="#">Functional Performance Criteria</a>	Supported	<p>TimeArrow uses standard text labels and tool tips through the Microsoft .NET Framework for compatibility with Assistive Technology. Neither speech inputs nor audio outputs are required to use the software.</p> <p>TimeArrow typically supports keyboard input of key application features that would otherwise be mouse-driven, but there are minor exceptions with graphical editing features. Gaps in keyboard support are being addressed in v3.1 of the software.</p>
Section 1194.41 <a href="#">Information, documentation, and support.</a>	Supported	<p>All product documentation is provided electronically for use with Assistive Technology at no additional cost. Technical support is available by phone or by e-mail, with no cost differentiation between the two.</p>

**Section 1194.21 Software Applications and Operating Systems**

<i>Criteria</i>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
<p>(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.</p>	<p>Supported through Equivalent Facilitation</p>	<p>Main menus are navigable using the keyboard, as are all forms.</p> <p>Graphical elements, once selected, are movable using arrow keys, and are editable by using selections from the main menu (also accessible via keyboard). End users may use zoom functions to ease the process of selecting graphical elements.</p>
<p>(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.</p>	<p>Supported</p>	<p>TimeArrow fully supports the accessibility features of Windows-based operating systems and Microsoft Office, with which it interacts. TimeArrow is built on the Microsoft .NET Framework technology and leverages all accessibility components therein.</p>
<p>(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.</p>	<p>Supported</p>	<p>TimeArrow menus and buttons display focus in a way that is consistent with the Microsoft .NET Framework. Non-standard items such as the graphical elements of a TimeArrow document show focus with a green outline around the active object(s).</p>
<p>(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.</p>	<p>Supported</p>	<p>All checkboxes, menus, toolbars and buttons, whether labeled with text or an icon, support tool tips through the Microsoft .NET Framework.</p>
<p>(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</p>	<p>Supported</p>	<p>The icons in TimeArrow are used consistently throughout the application.</p>

performance.		
(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	TimeArrow utilizes the Microsoft .NET Framework to display textual information through standard operating system functions.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supported	TimeArrow utilizes the Microsoft .NET Framework to render all primary user interface elements. As a result, user-selected accessibility settings are automatically reflected in the application without further configuration.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Supported	TimeArrow animations default to a paused state, and frames can be advanced using the arrow keys.
(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	TimeArrow does not use color-coded prompts for any user inputs. Color-coded charts elements (outputs) default to include text labels.
(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	TimeArrow supports a multi-color palette with a variety of colors in different hues and with different levels of saturation. Users may create custom user profiles that utilize a preselected set of colors. All colors names are shown in text in addition to the colors themselves.
(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.	Not Applicable	TimeArrow does not utilize flashing or blinking text or other elements.
(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.	Supported	TimeArrow labels all form fields in a consistent manner to improve readability. All forms are navigable using the keyboard.

**Section 1194.31 Functional Performance Criteria**

<i>Criteria</i>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(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	TimeArrow labels all fields, menu items and other core elements either on-screen or through tool tips that can be accessed through Assistive Technology.
(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	TimeArrow labels all fields, menu items and other core elements either on-screen or through tool tips that can be accessed through Assistive Technology.
(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	Not Applicable	TimeArrow does not use audio.
(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.	Not Applicable	TimeArrow does not use audio.
(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	TimeArrow does not use speech.
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Supported through Equivalent Facilitation	TimeArrow supports all standard sticky keys and other accessibility features included with the Windows operating systems. TimeArrow supports keyboard navigation for primary application features.  Use of a mouse is required to select graphical objects for editing, which can then be performed using a keyboard. End users may zoom in on graphics to reduce the need for fine motor skills when selecting an individual graphical element.

**Section 1194.41 Information, documentation, and support.**

<b><i>Criteria</i></b>	<b>Supporting Features</b>	<b>Remarks and explanations</b>
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge.	Supported	Product support documentation is available in standard text-based electronic formats, which are accessible to Assistive Technology.
(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	All accessibility features are documented as a part of the standard feature set of TimeArrow. All product documentation is available electronically for use with Assistive Technology.
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	End users have the option of phone or e-mail support, and there is no cost differentiation between the two.