

VPAT™

Voluntary Product Accessibility Template®

Version 1.3

The purpose of the **Voluntary Product Accessibility Template**, or **VPAT™**, is to assist Federal contracting officials and other buyers in making preliminary assessments regarding the availability of commercial “Electronic and Information Technology” products and services with features that support accessibility. It is assumed and recommended that offerers will provide additional contact information to facilitate more detailed inquiries.

The first table of the Template provides a summary view of the Section 508 Standards. The subsequent tables provide more detailed views of each subsection. There are three columns in each table. Column one of the Summary Table describes the subsections of subparts B and C of the Standards. The second column describes the supporting features of the product or refers you to the corresponding detailed table, e.g., “equivalent facilitation.” The third column contains any additional remarks and explanations regarding the product. In the subsequent tables, the first column contains the lettered paragraphs of the subsections. The second column describes the supporting features of the product with regard to that paragraph. The third column contains any additional remarks and explanations regarding the product.

Date: August 13, 2014

Name of Product: Cirrus DT Zero Client (TZ-XXXX)

Contact for more Information (name/phone/email): Brian Gentry/703-743-8590/bgentry@ncst.com

Summary Table

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<i>Criteria</i>	Supporting Features	Remarks and explanations
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Section 1194.21 Software Applications and Operating Systems	Generally Supported	This product does not have an OS or software applications. It relies on a network connection to connect to a remote virtual machine or host.
Section 1194.22 Web-based Internet Information and Applications	n/a	
Section 1194.23 Telecommunications Products	n/a	
Section 1194.24 Video and Multi-media Products	n/a	
Section 1194.25 Self-Contained, Closed Products	n/a	
Section 1194.26 Desktop and Portable Computers	See below VPAT	The usability and accessibility of this product is largely dependent on the remote host Operating System.
Section 1194.31 Functional Performance Criteria	Generally Supported	The usability and accessibility of this product is largely dependent on the remote host Operating System.
Section 1194.41 Information, Documentation and Support	Supported	

**Section 1194.21 Software Applications
and Operating Systems – Detail**

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Criteria	Supporting Features	Remarks and explanations
<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>Generally Supported</p>	<p>When our product connects to a host running Windows 7 or 8 this is generally supported.</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</p>	<p>Generally Supported</p>	<p>When our product connects to a host running Windows 7 or 8 this is generally supported.</p>

available to the product developer.		
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(g) Applications shall not override user selected contrast and color selections and other individual display	Generally Supported	When our product connects to a host running

attributes.		Windows 7 or 8 this is generally supported.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(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	

**Section 1194.22 Web-based Internet
information and applications – Detail**

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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).	n/a	Support is dependent on implementation by separate product.
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	n/a	Support is dependent on implementation by separate product.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	n/a	Support is dependent on implementation by separate product.
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	n/a	Support is dependent on implementation by separate product.
(e) Redundant text links shall be provided for each active region of a server-side image map.	n/a	Support is dependent on implementation by separate product.
(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.	n/a	Support is dependent on implementation by separate product.
(g) Row and column headers shall be identified for data tables.	n/a	Support is dependent on implementation by

		separate product.
(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.	n/a	Support is dependent on implementation by separate product.
(i) Frames shall be titled with text that facilitates frame identification and navigation	n/a	Support is dependent on implementation by separate product.
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	n/a	Support is dependent on implementation by separate product.
(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.	n/a	Support is dependent on implementation by separate product.
(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.	n/a	Support is dependent on implementation by separate product.
(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).	n/a	Support is dependent on implementation by separate product.
(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	n/a	Support is dependent on implementation by separate product.

completion and submission of the form, including all directions and cues.		
(o) A method shall be provided that permits users to skip repetitive navigation links.	n/a	Support is dependent on implementation by separate product.
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	n/a	Support is dependent on implementation by separate product.

Note to 1194.22: The Board interprets paragraphs (a) through (k) of this section as consistent with the following priority 1 Checkpoints of the Web Content Accessibility Guidelines 1.0 (WCAG 1.0) (May 5 1999) published by the Web Accessibility Initiative of the World Wide Web Consortium: Paragraph (a) - 1.1, (b) - 1.4, (c) - 2.1, (d) - 6.1, (e) - 1.2, (f) - 9.1, (g) - 5.1, (h) - 5.2, (i) - 12.1, (j) - 7.1, (k) - 11.4.

Section 1194.23 Telecommunications

Products – Detail

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<i>Criteria</i>	Supporting Features	Remarks and explanations
(a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.	n/a	Support is dependent on implementation by separate product.
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	n/a	Support is dependent on implementation by separate product.
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	n/a	Support is dependent on implementation by separate product.
(d) Voice mail, messaging, auto-attendant, and interactive voice response	n/a	Support is dependent on implementation by separate product.

<p>telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.</p>		
<p>(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.</p>	n/a	Support is dependent on implementation by separate product.
<p>(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.</p>	n/a	Support is dependent on implementation by separate product.
<p>(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.</p>	n/a	Support is dependent on implementation by separate product.
<p>(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.</p>	n/a	Support is dependent on implementation by separate product.
<p>(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to</p>	n/a	Support is dependent on implementation by separate product.

utilize the telecommunications product.		
(j) Products that transmit or conduct information or communication, shall pass through cross-manufacturer, non-proprietary, industry-standard codes, translation protocols, formats or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.	n/a	Support is dependent on implementation by separate product.
(k)(1) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be tactilely discernible without activating the controls or keys.	n/a	Support is dependent on implementation by separate product.
(k)(2) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be operable with one hand and shall not require tight grasping, pinching, twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2N) maximum.	n/a	Support is dependent on implementation by separate product.
(k)(3) Products which have mechanically operated controls or keys shall comply with the following: If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2	n/a	Support is dependent on implementation by separate product.

seconds per character.		
(k)(4) Products which have mechanically operated controls or keys shall comply with the following: The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	n/a	Support is dependent on implementation by separate product.

Section 1194.24 Video and Multi-media

Products – Detail

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Criteria	Supporting Features	Remarks and explanations
<p>a) All analog television displays 13 inches and larger, and computer equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV</p>	n/a	Support is dependent on implementation by separate product.

receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals.		
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	n/a	Support is dependent on implementation by separate product.
(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.	n/a	Support is dependent on implementation by separate product.
(d) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.	n/a	Support is dependent on implementation by separate product.
(e) Display or presentation of alternate text presentation or audio descriptions shall be	n/a	Support is dependent on implementation by separate product.

user-selectable unless permanent.		
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Section 1194.25 Self-Contained, Closed Products – Detail

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Criteria	Supporting Features	Remarks and explanations
(a) Self contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive Technology to the product. Personal headsets for private listening are not Assistive Technology.	n/a	Support is dependent on implementation by separate product.
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	n/a	Support is dependent on implementation by separate product.
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	n/a	Support is dependent on implementation by separate product.
(d) When biometric forms of user identification or control are used, an alternative form of	n/a	Support is dependent on implementation by separate product.

identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.		
(e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at anytime.	n/a	Support is dependent on implementation by separate product.
(f) When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45 dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.	n/a	Support is dependent on implementation by separate product.
(g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	n/a	Support is dependent on implementation by separate product.
(h) When a product permits a user to adjust	n/a	Support is dependent on implementation by separate

<p>color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.</p>		<p>product.</p>
<p>(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>n/a</p>	<p>Support is dependent on implementation by separate product.</p>
<p>(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.</p>	<p>n/a</p>	<p>Support is dependent on implementation by separate product.</p>
<p>(j)(2) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is 10 inches or less behind the reference plane, the height shall be 54 inches</p>	<p>n/a</p>	<p>Support is dependent on implementation by separate product.</p>

<p>maximum and 15 inches minimum above the floor.</p>		
<p>(j)(3) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 inches maximum and 15 inches minimum above the floor.</p>	<p>n/a</p>	<p>Support is dependent on implementation by separate product.</p>
<p>(j)(4) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.</p>	<p>n/a</p>	<p>Support is dependent on implementation by separate product.</p>

Section 1194.26 Desktop and Portable

Computers – Detail

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Criteria	Supporting Features	Remarks and explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Supported	The force needed to activate the button on the front chassis is less than 5lbs. The key repeat rate can be adjusted to at least 2 seconds in the operating system of the remote host. Most modern keyboards today, including all the keyboards sold by NCS with this device will have status LEDs to show when certain functions are enabled (CAPSLOCK, NUMLOCK, etc) These toggles are also audibly discernable through the operating system of the remote host. The front of the device also has LEDs to denote when power is ON and when the device is connected to a remote host.
(b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	Supported	A third party touch screen can be added to this product solution. But since this device already supplies an alternate method to interface with the computer (namely the keyboard and touchpad); these alternate methods of input would still be available to the user.
(c) When biometric forms of user identification or control are used, an alternative form of identification or	Supported	A third party fingerprint reader could be added to this product solution. For users that connect to a Windows operating system, it has provisions for alternate ways

<p>activation, which does not require the user to possess particular biological characteristics, shall also be provided.</p>		<p>of logging onto the device.</p>
<p>(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards</p>	<p>Supported</p>	<p>NCS is supplying industry standard connection points, NCS is supplying USB, RJ45, DP, and standard audio connectors.</p>

Section 1194.31 Functional Performance

Criteria – Detail

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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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally 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.	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally supported.
(c) At least one mode of operation and information retrieval that does not require	Generally Supported	When our product connects to a host running Windows 7 or 8 this is generally

<p>user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided</p>		<p>supported.</p>
<p>(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.</p>	<p>Generally Supported</p>	<p>When our product connects to a host running Windows 7 or 8 this is generally supported.</p>
<p>(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.</p>	<p>Generally Supported</p>	<p>When our product connects to a host running Windows 7 or 8 this is generally supported.</p>
<p>(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.</p>	<p>Generally Supported</p>	<p>When our product connects to a host running Windows 7 or 8 this is generally supported.</p>

**Section 1194.41 Information, Documentation
and Support – Detail**

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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	Digital user guides are available for download upon request.
(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	Available upon request
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	NCS Customer support already accommodates the communication needs of end-users with disabilities.