

Date: October 8, 2014

Name of Product: BladeCenter H

VPAT Summary

Criteria	Status	Remarks and Explanations
Section 1194.21 Software Applications and Operating Systems	Not applicable	Not applicable
Section 1194.22 Web-based Internet information & applications	Supports	Refer to Section 1194.22 in VPAT Details section below.
Section 1194.23 Telecommunications Products	Supports	Refer to Section 1194.23 in VPAT Details section below.
Section 1194.24 Video and Multi-media Products	Not applicable	Not applicable
Section 1194.25 Self-Contained, Closed Products	Supports	Refer to Section 1194.25 in VPAT Details section below.
Section 1194.26 Desktop and Portable Computers	Supports	Refer to Section 1194.26 in VPAT Details section below.
Section 1194.31 Functional Performance	Not applicable	Not applicable
Section 1194.41 Information, Documentation, and Support	Supports	Refer to Section 1194.41 in VPAT Details section below.

VPAT Details

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).	Supports: The application design provides text equivalents for all images so that assistive technology can describe those images to blind users.	Alt="text" and alt="" implemented per guidelines.
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not applicable	No multimedia content.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Supports: Color is used only as an enhancement, and an alternate means to convey information or indicate an action is available to users with visual impairments.	All color-coded information is redundantly coded by shape (for example, a red X versus a yellow !)
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Supports: Web page content is readable without the use of a pre-defined style sheet, allowing low vision users to enable their own style sheets that enhance their viewing preferences.	Style sheets not required for reading.
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not applicable	Image maps are not used.
(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	Image maps are not used.
(g) Row and column headers shall be identified for data tables.	Supports: The application is designed to identify row and column headers for blind users so the location and context of the table cell are clear and can be communicated by a screen reader.	<th> and headers attribute used in all table-related markup.
(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.	Supports: Complex tables are designed with additional attributes for blind users so the location and context of the table cell	<th> and headers attribute used in all table-related markup.

Criteria	Supporting Features	Remarks and Explanations
	are clear and can be communicated by a screen reader.	
(i) Frames shall be titled with text that facilitates frame identification and navigation.	Supports: Meaningful text titles are used to describe the purpose of frames so blind users can easily navigate to the desired area.	Interface uses three frames titled "Banner", "Navigation Tree", and "Main Content".
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supports: The use of blinking text, objects or elements has been avoided, reducing risk of seizures for users with photosensitive epilepsy.	No default blinking or flickering content. There are some progress indicators that use a spinning wheel but the wheel is stationary relative to its starting position on the screen. User may turn on a Locator function which is indicated by a 16 x 16 pixel animated GIF that blinks on and off at 500 MHz
(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	Accessibility provided through other methods. No Text-only pages necessary.
(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.	Supports: Alternatives to scripting language are provided, allowing users access to the content via keyboard and assistive technology.	Fully accessible through keyboard and Home Page Reader (HPR).
(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).	Not applicable	Remote Control (console redirection) functions of web interface implemented as Java applets. The data stream from the remote server to the web interface in these applets is similar to a bitmap and therefore cannot be interpreted by screen readers.
(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 and cues.	Supports: The application design allows assistive technology access to information, field elements, and functionality required to complete and submit forms.	<label> tags are used to identify all form elements.
(o) A method shall be provided that permits users to skip repetitive navigation links.	Supports: Web pages are designed so that repetitive navigation links can be skipping over, and blind users can navigate to the main content of the page more easily.	Navigation tree is in a separate frame from the main content. Keyboard shorts allow user to move focus between frames.
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable	No timed responses are required.

Section 1194.23 Telecommunications Products - Detail

Criteria	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.	Not applicable	
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non proprietary standard TTY signal protocols.	Not applicable	
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Not applicable	
(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunication 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	Not applicable	

Criteria	Supporting Features	Remarks and Explanations
required.		
(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs and for users who cannot see displays.	Not applicable	
(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.	Not applicable	
(g) If the telecommunications product allows a user to adjust the receiver volume, a function shall be provided to automatically reset the volume to the default level after every use.	Not applicable	
(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.	Not applicable	
(i) Interface 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 utilize the telecommunications product.	Not applicable	
(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 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.	Not applicable	
(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.	Supports: Touch can be used to identify and distinguish controls and keys without activating them.	Controls and latches (power on/off, reset, keyboard, video, mouse (KVM) selection, DVD-CD eject, hot-swap hard drives, hot-plug power supplies, switch modules, management modules) are all reachable and operable with one hand and minimal dexterity. Some service tasks like removing/installing blades requires two hands.
(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	Supports: Controls and latches can be reached and operated using one hand and require minimal dexterity for ease of use by mobility impaired users.	Controls and latches (power on/off, reset, KVM selection, DVD-CD eject, hot-swap hard drives, hot-plug power supplies, switch modules, management modules) are all reachable and operable with one hand and minimal dexterity. Some service tasks like removing/installing blades requires two hands.
(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 seconds per character.	Supports: An option to change keyboard repeat rate is provided so users can adjust the rate to accommodate their needs.	Controls and latches (power on/off, reset, KVM selection, DVD-CD eject, hot-swap hard drives, hot-plug power supplies, switch modules, management modules) are all reachable and operable with one hand and minimal dexterity. Some service tasks like removing/installing blades requires two hands.
(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.	Supports: The status of locking and toggle controls or keys can be seen as well as distinguished by touch and/or sound when activated.	Controls and latches (power on/off, reset, KVM selection, DVD-CD eject, hot-swap hard drives, hot-plug power supplies, switch modules, management modules) are all reachable and operable with one hand and minimal dexterity. Some service tasks like removing/installing blades requires two hands. Product does not utilize locking or toggle keys.

Section 1194.25 Self-Contained, Closed Products - Detail

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	Not applicable	

Criteria	Supporting Features	Remarks and Explanations
Assistive Technology.		
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable	
(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).	Not applicable	
(d) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not applicable	
(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.	Not applicable	The volume control is meant for use after the OS is up or for systems where there is auditory information other than system beeps prior to loading the OS. The system beeps from BIOS do not require volume control.
(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.	Not applicable	
(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.	Supports: Color is used only as an enhancement, and an alternate means to convey information or indicate an action is available to users with visual impairments.	Product uses color as an enhancement, not as the only way to convey information or distinguish keys, controls, and labels.
(h) When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.	Not applicable	
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not applicable	
(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. (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 maximum and 15 inches minimum above the floor. (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. (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	Supports: All controls are placed within easy reach, complying with industry standards, so that they are reachable and operable by mobility impaired users.	

Criteria	Supporting Features	Remarks and Explanations
following: Operable controls shall not be more than 24 inches behind the reference plane.		

Section 1194.26 Desktop and Portable Computers - Detail

Criteria	Supporting Features	Remarks and Explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Supports: See 1194.23(k) 1 through 4.	Controls and latches (power on/off, reset, KVM selection, DVD-CD eject, hot-swap hard drives, hot-plug power supplies, switch modules, management modules) are all reachable and operable with one hand and minimal dexterity. Some service tasks like removing/installing blades requires two hands.
(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).	Supports: See 1194.23(k) 1 through 4.	Product does not utilize touch-screen, but all touch-operated controls requirements.
(c) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not applicable	Product does not utilize biometric forms of user identification.
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	Supports: The product design uses Industry standard ports so that alternative equipment and assistive technologies can be accommodated.	Blade Center H provides four industry standard USB ports (two front, two rear on Adv Management Module).

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.	Supports: Product support documentation is provided in at least one accessible format.	All documentation is provided in PDF format.
(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.	Not applicable	No system unique accessibility features.
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supports: In addition to standard IBM help desk and support Web sites, IBM has established a TTY telephone service for use by deaf or hard of hearing customers to access sales and support services.	



Product / Component name (web link to VPAT)	Status	Function provided by product
IBM Director 5.10, 5.10.1	Accessible	

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