

Section 508 Conformance Audit Voluntary Product Accessibility Template

Regulatory Model: P2014H **Marketing Model Number:** P2014H

Dell Inc.

One Dell Way Round Rock, TX 78682

Accessibility Partners, LLC
514 Hillsboro Drive
Suite 1
Silver Spring, MD 20902
Phone: 301-717-7177
www.AccessibilityPartners.com
Info@AccessibilityPartners.com

Section 508 Evaluation Template

This Voluntary Product Accessibility Template (VPAT) provides guidance on the accessibility characteristics of the **Dell P2014H Monitor** as of **October 11, 2013**

Name of Product: Dell P2014H Monitor

Regulatory Model: P2014H

The current version of the Dell [model] Monitor was tested for conformance with Section 508 of the Rehabilitation Act, specifically, the U.S. Access Board's Technical Requirements. This product was tested as of **October 11, 2013** and is only valid for the version and date it was tested.

VPAT™ Summary Table Voluntary Product Accessibility Template®

VPAT Summary	Total Standards	Total Applicable Standard	Supports	Exceptions
Section 1194.21 Software Applications and Operating Systems	12	12	12	0
Section 1194.22 Web-based Internet Information and Applications	16	0	0	0
Section 1194.23 Telecommunications Products	14	3	3	0
Section 1194.24 Video and Multi- media Products	5	0	0	0
Section 1194.25 Self-Contained, Closed Products	13	10	9	1
Section 1194.26 Desktop and Portable Computers	4	3	3	0
Section 1194.31 Functional Performance Criteria	6	6	6	0
Section 1194.41 Information, Documentation and Support	3	3	3	0
Total	73	37	36	1

Section 1194.21 Software Applications and Operating Systems - Detail VPAT™

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.	Supports	The On Screen Display (OSD) utility is firmware that is housed within the monitor. The OSD is designed to be used by selecting the buttons on the front of the monitor. Dell Display Manager is keyboard operable. Dell Driver Installation on CD is keyboard operable.	
(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.	Supports	The OSD utility does not disrupt or disable activated features of other products that are identified as accessibility features. Dell Display Manager does not disrupt or disable activated features of other products that are identified as accessibility features. Dell Driver Installation on CD does not disrupt or disable activated features of other products that are identified as accessibility features.	
(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.	Supports	The monitor only displays images from the device to which it is attached. Dell Display Manager has a well-defined on-screen indication of the current focus. Dell Driver Installation on CD has a well-defined on-screen indication of the current focus.	
(d) Sufficient information about a user interface element including	Supports	The monitor only displays images from the device to which it is attached.	

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.		Dell Display Manager provides sufficient information about a user interface element including the identity operation and state of the element are available to Assistive Technology. Dell Driver Installation on CD provides sufficient information about a user interface element including the identity operation and state of the element are available to Assistive Technology.
(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.	Supports	The OSD bitmap images used to identify controls, status indicators, or programmatic elements are consistent and maintain their meanings. Dell Display Manager bitmap images used to identify controls, status indicators, or programmatic elements are consistent and maintain their meanings. Dell Driver Installation on CD bitmap images used to identify controls, status indicators, or programmatic elements are consistent and maintain their meanings.
(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.	Supports	The monitor only displays images and/or text from the device to which it is attached. Dell Display Manager's textual information is provided through operating system functions for displaying text. Dell Driver Installation on CD textual information is provided through operating system functions for displaying text.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports	OSD does not override user selected contrast and color selections and other individual display attributes when the monitor is connected to a computer and displaying for the computer. Dell Display Manager does not override user selected contrast and color selections and other individual display attributes when the monitor is connected to a computer and

		displaying for the computer. Dell Driver Installation on CD does not override user selected contrast and color selections and other individual display attributes when the monitor is connected to a computer and displaying for the computer.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Supports	No animation is displayed by OSD. No animation is displayed by Dell Display Manager. No animation is displayed by Dell Driver Installation on CD.
(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.	Supports	Color coding is not used as the only means of conveying information in OSD. Color coding is not used as the only means of conveying information in Dell Display Manager. Color coding is not used as the only means of conveying information in Dell Driver Installation on CD.
(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.	Supports	OSD allows users to adjust color and contrast settings. Dell Display Manager allows users to adjust color and contrast settings. Dell Driver Installation does not allow users to adjust color and contrast settings.
(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.	Supports	OSD does not contain flashing or blinking text, objects, or other elements. Dell Display Manager does not contain flashing or blinking text, objects, or other elements. Dell Driver Installation on CD. Does not contain flashing or blinking text, objects, or other elements.
(I) When electronic forms are used, the form shall allow people using Assistive Technology to	Supports	Dell Display Manager's electronic forms are used, allowing people using Assistive Technology to access the information, field

access the information, field elements, and functionality required for completion and submission of the form, including	elements, and functionality required for completion and submission of the form, including all directions and cues.
all directions and cues.	Dell Driver Installation on CD's electronic forms are used, allowing people using Assistive Technology to access the information, field elements, and functionality required for completion and submission of the form,

Section 1194.22 Web-based Internet information and applications - Detail $$\operatorname{\textsc{VPAT}}^{\textsc{tm}}$$

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).	Not Applicable	This product is not an internet application.
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not Applicable	This product is not an internet application.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Not Applicable	This product is not an internet application.
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Not Applicable	This product is not an internet application.
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not Applicable	This product is not an internet application.
(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 product is not an internet application.

(g) Row and column headers shall be identified for data tables.	Not Applicable	This product is not an internet application.
(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.	Not Applicable	This product is not an internet application.
(i) Frames shall be titled with text that facilitates frame identification and navigation	Not Applicable	This product is not an internet application.
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not Applicable	This product is not an internet application.
(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 product is not an internet application.
(I) 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.	Not Applicable	This product is not an internet application.
(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 (I).	Not Applicable	This product is not an internet application.
(n) When electronic forms are designed to be completed online, the form shall allow people using Assistive Technology to access the information, field elements, and functionality required for completion and	Not Applicable	This product is not an internet application.

submission of the form, including all directions and cues.		
(o) A method shall be provided that permits users to skip repetitive navigation links.	Not Applicable	This product is not an internet application.
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not Applicable	This product is not an internet application.

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 VPAT™ Voluntary Product Accessibility Template®

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	Not a Telecommunications Product. Does not provide voice communication functionality.
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Not Applicable	Not a Telecommunications Product. Does not provide voice communication functionality.
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems	Not Applicable	Not a Telecommunications Product. Does not contain Voice mail, auto-attendant, and interactive voice response

shall be usable by TTY users with their TTYs.		telecommunications systems.
(d) Voice mail, messaging, auto- attendant, and interactive voice response 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.	Not Applicable	Not a Telecommunications Product. Does not contain Voice mail, auto-attendant, and interactive voice response telecommunications systems.
(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	Not a Telecommunications Product. Does not contain telecommunications functionality such as caller ID.
(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	Not a Telecommunications Product. Does not transmit voice signals.
(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.	Not Applicable	Not a Telecommunications Product.
(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	Not a Telecommunications Product. Does not deliver audio output.
(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 utilize the telecommunications product.	Not Applicable	Not a 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.	Not Applicable	Not a Telecommunications 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.	Supports	All buttons are tactilely discernible.
(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 keys are operable with one hand and do not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys is less than 5 lbs.
(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.	Not Applicable	No key repeat.
(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	Supports	The status of all locking or toggle control or keys is visually discernible, and discernible either through touch or sound. All control buttons emit audible sounds (clicking) when activated.

discernible either through touch		
or sound.		

Criteria	Supporting Features	Remarks and explanations
(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 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.	Not Applicable	Product is not an analog television display.
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	Not Applicable	Product is not a Television tuner.
(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or	Not Applicable	No Training, informational videos or multimedia is provided with this product.

other audio information necessary for the comprehension of the content, shall be open or closed captioned.		
(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.	Not Applicable	No Training, informational videos or multimedia is provided with this product.
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Not Applicable	No display or presentation of alternative text presentation or audio descriptions.

Section 1194.25 Self-Contained, Closed Products - Detail VPAT™

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.	Supports with Exceptions	The On Screen Display (OSD) utility is firmware that is housed within the monitor. The OSD is designed to be used by selecting the buttons on the front of the monitor. For users of assistive technology, most of the functionality provided by the OSD can be remotely managed using the Dell Client Manager.
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supports	The OSD on-screen menu displays for a certain length of time. The time limit is user adjustable and provides sufficient time for navigating the menu. There is no timed response required within the Dell Display Manager. There is no timed response required within
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with	Supports	the Dell Driver Installation on CD. All buttons are tactilely discernible. Controls are not touch sensitive.

§1194.23 (k) (1) through (4).		Controls and keys are operable with one hand and do not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys is less than 5 lbs.
		No key repeat. The status of all locking or toggle control or keys is visually discernible, and discernible either through touch or sound.
		All front and side panel control buttons emit audible sounds (clicking) when activated.
(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	No biometric forms used for user identification or control.
(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 monitor does not support audio output.
(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	The monitor does not provide voice output.
(g) Color coding shall not be used as the only means of	Supports	Color coding is not used as the sole means of conveying information in the OSD.

conveying information, indicating an action, prompting a response, or distinguishing a visual element.		Color coding is not used as the sole means of conveying information in the Dell Display Manager. Color coding is not used as the sole means of conveying information in the Dell Driver Installation CD.
(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.	Supports	OSD allows users to adjust color and contrast settings. Dell Display Manager allows users to adjust color and contrast settings. Dell Driver Installation does not allow users to adjust color and contrast settings.
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supports	The OSD product does not blink in the prohibited range. The Dell Display Manager does not blink in the prohibited range. The Dell Driver Installation on CD does not blink in the prohibited range.
(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.	Supports	The position of operable controls with respect to a vertical plane is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length.
(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	Supports	Controls are between 15" and 54" from the floor and are within 10" of the reference plane.

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.	Supports	Monitor controls are between 10" and 24" from the reference plane (front-most of the machine). Controls are between 15" and 46" from 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 following: Operable controls shall not be more than 24 inches behind the reference plane.	Supports	Controls are not more than 24" behind the reference plane.

Section 1194.26 Desktop and Portable Computers - Detail VPAT™

Criteria	Supporting Features	Remarks and explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Supports	All buttons are tactilely discernible. Controls are not touch sensitive. Controls and keys are operable with one hand and do not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys is less than 5 lbs. No key repeat. The status of all locking or toggle control or keys is visually discernible, and discernible either through touch or sound.

		All front and side panel control buttons emit audible sounds (clicking) when activated.
(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	All buttons are tactilely discernible. Controls are not touch sensitive. Controls and keys are operable with one hand and do not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys is less than 5 lbs. No key repeat. The status of all locking or toggle control or keys is visually discernible, and discernible either through touch or sound. All front and side panel control buttons emit audible sounds (clicking) when activated.
(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	No biometric forms used for user identification or control.
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards	Supports	Expansion slots, ports and connectors comply with publicly available industry standards.

Section 1194.31 Functional Performance Criteria - Detail **VPAT**TM **Voluntary Product Accessibility Template®** Supporting Remarks and explanations Criteria **Features** (a) At least one mode of The assistive technology features are operation and information enabled through the attached (i.e., the retrieval that does not require computer or video device). **Supports** user vision shall be provided, or support for Assistive Technology

used by people who are blind or visually impaired shall be provided.		The Dell Driver CD is usable when combined with a screen reader.
(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.	Supports	The assistive technology features are enabled through the attached (i.e., the computer or video device) for the monitor. The Dell Display Manager may be used by users with a visual acuity no greater than 20/70 when combined with screen magnification assistive technology. The Dell Driver CD may be used by users with a visual acuity no greater than 20/70 when combined with screen magnification 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	Supports	Does not require user hearing for operation.
(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.	Supports	Does not require user hearing for operation.
(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.	Supports	Does not require user speech for operation.
(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.	Supports	On the monitor controls and keys require less than 5 pounds of force to activate, are operable with one hand, and require no fine motor controls. Controls and keys are tactilely discernible. The Dell Driver CD is keyboard operable.

Section 1194.41 Information, Documentation and Support - Detail VPAT™

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	Alternative forms of access to product support documentation in alternative formats are currently available by contacting Dell Customer and Technical Support: http://support.dell.com at no additional charge to the end user.
(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.	Supports	Alternative forms of access to descriptions of the accessibility and compatibility features in alternative formats are currently available via Dell Customer Support and Technical Support Services: http://support.dell.com at no additional charge to the end user.
(c) Support services for products shall accommodate the communication needs of endusers with disabilities.	Supports	Dell Provides support for Technical Support via Online Chat, Telephone and E-mail.