



Section 508 Conformance Audit Voluntary Product Accessibility Template

Marketing Name: Dell Precision 3510

Regulatory Model: P48F

Dell Inc.
One Dell Way
Round Rock, TX 78682
Reviewed by: Susan Samok

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	0	0	0
Section 1194.22 Web-based Internet Information and Applications	16	0	0	0
Section 1194.23 Telecommunications Products	14	4	4	0
Section 1194.24 Video and Multi-media Products	5	0	0	0
Section 1194.25 Self-Contained, Closed Products	13	9	9	0
Section 1194.26 Desktop and Portable Computers	4	4	4	0
Section 1194.31 Functional Performance Criteria	6	6	6	0
Section 1194.41 Information, Documentation and Support	3	3	3	0
Total	73	26	26	0

Section 1194.21 Software Applications and Operating Systems -- Detail
VPAT™
Voluntary Product Accessibility Template®

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.	N/A	This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.

<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>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</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>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</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>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</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 performance.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>

<p>(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.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>
<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>
<p>(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal computer and not an OS. Dell defers to Windows VPAT for the OS on the system.</p>

Section 1194.22 Web-based Internet information and applications -- Detail
VPAT™
Voluntary Product Accessibility Template®

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	This is a personal Computer. This is not a Web based Internet information or application
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	N/A	This is a personal Computer. This is not a Web based Internet information or 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.	N/A	This is a personal Computer. This is not a Web based Internet information or application
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	N/A	This is a personal Computer. This is not a Web based Internet information or application
(e) Redundant text links shall be provided for each active region of a server-side image map.	N/A	This is a personal Computer. This is not a Web based Internet information or 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.	N/A	This is a personal Computer. This is not a Web based Internet information or application
(g) Row and column headers shall be identified for data tables.	N/A	This is a personal Computer. This is not a Web based Internet information or 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.	N/A	This is a personal Computer. This is not a Web based Internet information or application
(i) Frames shall be titled with text that facilitates frame identification and navigation	N/A	This is a personal Computer. This is not a Web based Internet information or application

<p>(j) Pages 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>This is a personal Computer. This is not a Web based Internet information or application</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal Computer. This is not a Web based Internet information or application</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal Computer. This is not a Web based Internet information or application</p>
<p>(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).</p>	<p>N/A</p>	<p>This is a personal Computer. This is not a Web based Internet information or application</p>
<p>(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.</p>	<p>N/A</p>	<p>This is a personal Computer. This is not a Web based Internet information or application</p>
<p>(o) A method shall be provided that permits users to skip repetitive navigation links.</p>	<p>N/A</p>	<p>This is a personal Computer. This is not a Web based Internet information or application</p>
<p>(p) When a timed response is required, the user shall be alerted and given sufficient time</p>	<p>N/A</p>	<p>This is a personal Computer. This is not a Web based Internet information or application</p>

to indicate more time is required.		
------------------------------------	--	--

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.	N/A	This is a personal computer and is not a telecommunications product
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	N/A	This is a personal computer and is not a telecommunications product
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	N/A	This is a personal computer and is not a telecommunications product
(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	N/A	This is a personal computer and is not a telecommunications product

time for the user to indicate more time is 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.	N/A	This is a personal computer and is not a telecommunications product
(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.	N/A	This is a personal computer and is not a telecommunications product
(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.	N/A	This is a personal computer and is 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.	N/A	This is a personal computer and is not a telecommunications product
(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.	N/A	This is a personal computer and is 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	N/A	This is a personal computer and is not a telecommunications product

<p>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.</p>		
<p>(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.</p>	<p>Supports</p>	<p>Controls and keys are tactilely discernible. The “J”, “F”, down arrow, Escape, and Delete keys all have a raised bar, Industry standard ports are used, with industry standard covers. The SIM Card Cover is small but is tactilely discernible, and the end user can be directed to the sim card cover based on its location to the USB port</p>
<p>(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.</p>	<p>Supports</p>	<p>All controls and keys are industry standard, and can be operated with one hand, with no tight grasping, pinching, twisting of the wrist. All keys and controls can be operated with less than 5 lbs of pressure</p> <p>The SIM card cover is tactilely discernible and industry standard, but may require fine motor skills to remove.. .</p>
<p>(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.</p>	<p>Supports</p>	<p>Key repeat can be adjusted through the Windows Ease of access keyboard properties so that it is at least 2 seconds per character</p>
<p>(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.</p>	<p>Supports</p>	<p>The status of all locking or toggle controls or keys are visually discernible and discernible through touch</p>

Section 1194.24 Video and Multi-media Products – Detail
VPAT™
Voluntary Product Accessibility Template®

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 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.</p>	<p>N/A</p>	<p>This is not a video multi-media product, this is a personal computer</p>
<p>(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.</p>	<p>N/A</p>	<p>This is not a video multi-media product, this is a personal computer, there was no tv tuner in the configuration</p>
<p>(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,</p>	<p>N/A</p>	<p>This is not a video multi-media product, this is a personal computer</p>

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.	N/A	This is not a video multi-media product, this is a personal computer
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	N/A	This is not a video multi-media product, this is a personal computer

Section 1194.25 Self-Contained, Closed Products – Detail
VPAT™
Voluntary Product Accessibility Template®

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	This is not a self-contained product, this is a personal computer
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	N/A	This is not a self-contained product, this is a personal computer
(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).	Supports	The personal computer has a touch screen and also a physical keyboard. The OS can adjust to supply sound via screen reader, and supplies keyboard property adjustments, for sound. The physical keys and controls are all tactilely discernible
(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	Supports	The Biometric ID can be disabled, other methods of security would be in the OS boot up password.

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.	Not Applicable	This product is not a self-contained, closed 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.	Not Applicable	This product is not a self-contained, closed 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.	Supports	Color coding is not used as the sole means of conveying information or indicating an action.
(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	The operating system can be used to select user display 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	Flashing or Blinking text - Blinking does not occur in the prohibited range. The cursor blink rate can be adjusted by the user to less than 2Hz.
(j) (1) Products which are freestanding, non-portable, and intended to be used in one	Supports	The position of the operable controls is 48 inches in length, centered on the operable control, and at the maximum

<p>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>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>(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.</p>	<p>Supports</p>	<p>Products have operable controls that are 10 inches or less behind the reference plane, the height is 54 inches 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>Supports</p>	<p>Product has operable controls that 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>(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>Supports</p>	<p>Products have operable controls that comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.</p>

Section 1194.26 Desktop and Portable Computers – Detail
VPAT™
Voluntary Product Accessibility Template®

Criteria	Supporting Features	Remarks and explanations
<p>(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).</p>	<p>Supports</p>	<p>Controls, keys and latches are tactilely discernible.</p> <p>Controls, keys and latches may be triggered with one hand and do not require tight grasping, pinching or twisting of the wrist. Controls and keys may be activated using less than 5 pound of force (pressure).</p> <p>Key repeat support is provided via Microsoft Windows Operating Systems. The status of locking and toggle controls and keys is supported via Microsoft Operating Systems Accessibility Features.</p> <p>Provides audible feedback when toggling and locking keys are set.</p>
<p>(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).</p>	<p>Supports</p>	<p>A touchpad and a touchscreen are available for use as pointing devices. Alternative forms of input are provided via the keyboard and the operating system, Controls, keys and latches are tactilely discernible.</p> <p>Controls, keys and latches may be triggered with one hand and do not require tight grasping, pinching or twisting of the wrist. Controls and keys may be activated using less than 5 pound of force (pressure).</p> <p>Key repeat support is provided via Microsoft Windows Operating Systems. The status of locking and toggle controls and keys is supported via Microsoft Operating Systems Accessibility Features.</p> <p>Provides audible feedback when toggling and locking keys are set.</p>

(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.	Supports	Password alternatives are available through the keyboard.
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards	Supports	Dell uses publicly available industry standard ports and connectors.

Section 1194.31 Functional Performance Criteria – Detail
VPAT™
Voluntary Product Accessibility Template®

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.	Supports	The product may be operated without vision. Information retrieval is supported by the operating system (Windows) when combined with assistive technology for example, screen reader (Jaws), screen magnification (MAGic) and speech recognition (Dragon Naturally Speaking) software. Industry standard ports and connectors allow hardware assistive technology to be connected.
(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 product may be operated without vision and does not require visual acuity greater than 20/70. Information retrieval is supported by the operating system (Windows) when combined with assistive technology for example, screen reader (Jaws), screen magnification (MAGic) and speech recognition (Dragon Naturally Speaking) software. Industry standard ports and connectors allow hardware assistive technology to be connected.
(c) At least one mode of operation and information	Supports	Does not require user hearing to operate or for information retrieval. Industry

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		standard ports and connectors allow for assistive technology to be used to enhance optional auditory information if the user desires.
(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 to operate or for information retrieval. Industry standard ports and connectors allow for assistive technology to be used to enhance optional auditory information if the user desires.
(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	User speech is not required for operations.
(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	Operation and information retrieval does not require fine motor control and simultaneous actions. The product can be operated with limited reach and strength. Reference 1194.26(a) and 1194.26(b) for details.

Section 1194.41 Information, Documentation and Support – Detail
VPAT™
Voluntary Product Accessibility Template®

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.

<p>(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.</p>	<p>Supports</p>	<p>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.</p>
<p>(c) Support services for products shall accommodate the communication needs of end-users with disabilities.</p>	<p>Supports</p>	<p>Dell Provides support for Technical Support via Online Chat, Telephone and E-mail.</p> <p>Dell has a dedicated TTY line available</p>