

CIS Secure Computing DTD-DC7700T Desktop Computer Voluntary Product Accessibility Template

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Product Name: CIS TEMPEST Desktop Computer

Product Version Number: DTD-DC7700T

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Description:

The DTD-DC7700T is a desktop computing platform based on the HP Compaq DC7700 Ultra Slim Desktop PC, uses a Microsoft Windows XP operating system, and is Microsoft Vista compatible/upgradeable.

The DTD-DC7700 addresses the Section 508 standards as described in the chart below.

Standard	Reference (36CFR)	Supporting Features*	Remarks*
Software Applications and Operating Systems			
<p>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>	1194.21(a)	<p>This product family supports: Navigation of application menus from the keyboard, Microsoft Windows Accessibility features including StickyKeys, Filter Keys, and ToggleKeys. HP Easy Access Internet buttons adhere to user assignment of shortcut keys.</p>	<p>The Audio control applet supports keyboard-only navigation except for multi-streaming selection button.</p>
<p>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>	1194.21(b)	<p>Applications running on this product family do not interfere with Microsoft Windows operating systems Accessibility features.</p>	

<p>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>1194.21(c)</p>	<p>This product family supports on-screen focus tracking. The focus is exposed programmatically so assistive technology can track focus and focus changes.</p>	
<p>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>1194.21(d)</p>	<p>Information about user interface elements is made available to Assistive Technology. Text equivalents for program element images are available for applications that adhere to standard Windows Application Programming Interfaces (APIs).</p>	
<p>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>1194.21(e)</p>	<p>Icons (bitmaps) maintain their meanings throughout an applications performance.</p>	
<p>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>1194.21(f)</p>	<p>Textual descriptions (text content, text input caret location, and text attributes) for displaying text are provided for applications that adhere to standard Windows Application Programming Interfaces (APIs).</p>	

<p>Applications shall not override user selected contrast and color selections and other individual display attributes</p>	<p>1194.21(g)</p>	<p>User selected color and contrast schemes and other individual display attributes set through Microsoft Windows are maintained while running applications.</p>	<p>NOTE: The Intel Graphics application interface does not change contrast schemes when the OS contrast scheme is changed. (This exists in both OEM and Intel retail product offerings and is not limited to HP implementation) The Realtek Audio control applet Multi-Streaming enable button does not show up when high contrast is set. (This exists in both OEM and Realtek retail product offerings and is not limited to HP implementation)</p>
<p>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>1194.21(h)</p>	<p>Animation is not the only means of conveying functional information; user has option of choosing another presentation mode.</p>	
<p>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>1194.21(i)</p>	<p>This product family does not use color coding to convey information, actions, prompting responses or distinguishing visual elements. BIOS POST Error messages are conveyed using red LED blinks with audible beeps from the system speaker.</p>	
<p>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>1194.21(j)</p>	<p>This product family supports a variety of color selections through Microsoft Windows which provides a range of contrast levels for applications that allow a user to adjust color and contrast settings.</p>	

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.	1194.21(k)	This product family supports a software blink rate of less than 2Hz or greater than 55Hz.	
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.	1194.21(l)	Form information, field elements, and functionality for completion and submission of electronic forms are accessible with Assistive Technology. See Reference 1194.31a through 1194.31g for Assistive Technology supported by HP.	
Web-based Intranet and Internet Information and Applications			
A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	1194.22(a)	N/A - No Web based Intranet or Internet information or applications	
Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	1194.22(b)	N/A - No Web based Intranet or Internet information or applications	
Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	1194.22(c)	N/A - No Web based Intranet or Internet information or applications	
Documents shall be organized so they are readable without requiring an associated style sheet	1194.22(d)	N/A - No Web based Intranet or Internet information or applications	

Redundant text links shall be provided for each active region of a server-side image map	1194.22(e)	N/A - No Web based Intranet or Internet information or applications	
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.	1194.22(f)	N/A - No Web based Intranet or Internet information or applications	
Row and column headers shall be identified for data tables.	1194.22(g)	N/A - No Web based Intranet or Internet information or applications	
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.	1194.22(h)	N/A - No Web based Intranet or Internet information or applications	
Frames shall be titled with text that facilitates frame identification and navigation.	1194.22(i)	N/A - No Web based Intranet or Internet information or applications	
Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	1194.22(j)	N/A - No Web based Intranet or Internet information or applications	
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.	1194.22(k)	N/A - No Web based Intranet or Internet information or applications	

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.	1194.22(l)	N/A - No Web based Intranet or Internet information or applications	
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).	1194.22(m)	N/A - No Web based Intranet or Internet information or applications	
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.	1194.22(n)	N/A - No Web based Intranet or Internet information or applications	
A method shall be provided that permits users to skip repetitive navigation links.	1194.22(o)	N/A - No Web based Intranet or Internet information or applications	
When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	1194.22(p)	N/A - No Web based Intranet or Internet information or applications	

Telecommunications Products			
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.	1194.23(a)	N/A - Not a Telecommunications Product or System.	
Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	1194.23(b)	N/A - Not a Telecommunications Product or System.	
Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	1194.23(c)	N/A - Not a Telecommunications Product or System.	
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.	1194.23(d)	N/A - Not a Telecommunications Product or System.	

Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.	1194.23(e)	N/A - Not a Telecommunications Product or System.	
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.	1194.23(f)	N/A - Not a Telecommunications Product or System.	
Requires that an automatic reset be installed on any telephone that allows the user to adjust the volume higher than the normal level. This is a safety feature to protect people from suffering damage to their hearing if they accidentally answer a telephone with the amplification turned too high	1194.23(g)	N/A - Not a Telecommunications Product or System.	
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	1194.23(h)	N/A - Not a Telecommunications Product or System.	

<p>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.</p>	<p>1194.23(i)</p>	<p>N/A - Not a Telecommunications Product or System.</p>	
<p>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.</p>	<p>1194.23(j)</p>	<p>N/A - Not a Telecommunications Product or System.</p>	
<p>Controls and keys shall be tactilely discernible without activating the controls or keys</p>	<p>1194.23(k.1)</p>	<p>Controls, keys, and latches are tactilely discernible without activating the controls or keys. The "F" and "J" keys on the keyboard have raised marks. The "5" key on the numeric pad has a raised mark. Controls and drives are located on the front of the system for easy access. Eject button for removable storage protrudes beyond system cabinet sufficiently to provide clearance for actuation. This product</p>	

		family supports software CD eject with mouse.	
Controls and keys shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2 N) maximum.	1194.23(k.2)	Controls, keys, and latches require less than 5 pounds of force to actuate; are operable with one hand; and require no bending or fine motor controls. Passes for all normal operations. (See note)	For one-handed power-off hold power button for 5 to 10 seconds. All External Bays are located on front of PC; headphone jack and microphone jacks are located on front.
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.	1194.23(k.3)	Keys repeat rate is adjustable to 2 seconds for applications that require user (text) input. Delay before repeat is adjustable to 2 seconds.	
The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	1194.23(k.4)	Toggle LED indication for Caps Lock, Numlock, and Scroll Lock functions. Applications that use toggle keys provide an audio indication through Microsoft SoundSentry when the toggle keys have been activated or deactivated. Also, toggle LED and audio indication (button click) for power on.	
Video and Multimedia Products			
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	1194.24(a)	N/A – Does not have analog television receiver or display circuitry.	

<p>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>Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.</p>	<p>1194.24(b)</p>	<p>N/A – Does not have tuner capabilities.</p>	
<p>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</p>	<p>1194.24(c)</p>	<p>N/A - Contains no user required multimedia presentations. However, product supports open and closed captioned material.</p>	
<p>All training and informational video and multimedia productions which support the agency's mission,</p>	<p>1194.24(d)</p>	<p>N/A - Contains no user required multimedia presentations. However, product allows audio support of video presentations.</p>	

regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.			
Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	1194.24(e)	N/A - Contains no user required multimedia presentations. However, product allows user selection unless permanent.	
Self Contained, Closed Products			
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.	1194.25(a)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	1194.25(b)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	1194.25(c)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
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.	1194.25(d)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.

<p>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.</p>	1194.25(e)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
<p>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.</p>	1194.25(f)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
<p>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>	1194.25(g)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
<p>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.</p>	1194.25(h)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
<p>Products shall be designed to avoid causing the screen to flicker with a</p>	1194.25(i)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed

frequency greater than 2 Hz and lower than 55 Hz.			product, please contact HP for additional information.
Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following:	1194.25(j)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
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 (see Figure 1 of this part).	1194.25(j.1)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
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.	1194.25(j.2)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
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	1194.25(j.3)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
Operable controls shall not be more than 24 inches behind the reference plane (see Figure 2 of this part).	1194.25(j.4)	N/A – Not a self-contained, closed product (See Note)	Note: If this product will be used as part of a self-contained or closed product, please contact HP for additional information.
Desktop and Portable Computers			

All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	1194.26(a)	Refer to 1194.23 (k.1, k.2, k.3, k.4)	
If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	1194.26(b)	Refer to 1194.23 (k.1, k.2, k.3, k.4). Touch Screen not integral part of product.	
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.	1194.26(c)	Alternative forms of identification or activation are available. Biometrics is not standard.	
Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	1194.26(d)	All expansion slots, ports, and connectors (including headphone jack) are industry standard.	
Functional Performance Criteria			
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.	1194.31(a)	HP supports the following Assistive Technologies to provide a mode of operation and information retrieval for people who are blind or visually impaired: Opera v9.0 for Windows, IBM: Home Page Reader v3.0, IBM Via Voice Pro v10.0 USB, Dragon Naturally Speaking Preferred v8.0, Freedom Scientific JAWS v7.1 Professional, GW Micro Window Eyes v5.5 Professional. Toggle LED indication for Caps Lock, Numlock, and Scroll Lock functions.	Note that the "Woodrow" voice functionality of IBM's Via Voice does not work when Hyper Threading is enabled. To resolve this issue, disable Hyper Threading in the BIOS. Note that Freedom Scientific Magic v10 doesn't always function properly with extended (dual) monitors. Windows Eyes v5.5 has an issue with the optional ATI X1300 graphics card. When Windows Eyes is installed in a system with this card, the screen resolution and color depth drop and

		Applications that use toggle keys provide an audio indication through Microsoft SoundSentry when the toggle keys have been activated or deactivated. Also, toggle LED and audio indication (button click) for power on. BIOS password prompts also beep when waiting for input.	cannot be reset.
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.	1194.31(b)	HP supports 3rd party Assistive Technologies to provide a mode of operation and information retrieval for people with visual acuity less than 20/70 - MS Magnifier. Tested with Ai Squared Zoom Text v9.0 Level 2. Tested with Freedom Scientific Magic v10.0.	Note that Freedom Scientific Magic v10 doesn't always function properly with extended (dual) monitors.
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.	1194.31(c)	Does not require user hearing to operate or for information retrieval.	
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.	1194.31(d)	HP supports the following to provide audio enhancement and support for assistive hearing: Opera v9.0 for Windows, IBM: Home Page Reader v3.0, GW Window-Eyes Professional v 5.5, Freedom Scientific Jaws v7.1. Volume level is selectable and a headphone jack is accessible on the front of the unit.	Windows Eyes v5.5 has an issue with the optional ATI X1300 graphics card. When Windows Eyes is installed in a system with this card, the screen resolution and color depth drop and cannot be reset.

<p>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>1194.31(e)</p>	<p>Does not require user speech for operation or information retrieval. Tested with IBM ViaVoice Pro USB Edition release 10. Dragon Naturally Speaking Preferred v8.0,</p>	
<p>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>1194.31(f)</p>	<p>HP supports the following assistive technology for this purpose: IBM Via Voice Pro 10.0 USB, Dragon Naturally Speaking Preferred v8.0, Madentec Screendoors 2000 v2.1.4.3, Tracker 2000 v2.2.1.1, Wisp 2000. Controls, keys, and latches are tactilely discernible without activating the controls or keys. The "F" and "J" keys on the keyboard have raised marks. The "5" key on the numeric pad has a raised mark. Controls are located on the front of the system for easy access. Eject button for removable storage protrudes beyond system cabinet sufficiently to provide clearance for activation. Controls, keys, and latches require less than 5 pounds of force to actuate; are operable with one hand; and require no bending or fine motor controls. For one-handed power-off hold power button for 5 to 10 sec.</p>	
<p>Information, Documentation and Support</p>			
<p>Product support documentation provided to end-users shall be made available in alternate formats upon</p>	<p>1194.41(a)</p>	<p>Product support documentation describing normal operation is available in softcopy to be used by</p>	

request, at no additional charge.		screen readers, or to be printed by Braille embossers.	
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.	1194.41(b)	Accessibility information is available on www.hp.com/accessibility	
Support services for products shall accommodate the communication needs of end-users with disabilities.	1194.41(c)	Support for customers using TTY: 1-877-656-7058 (Monday - Friday 6 a.m. - 3 p.m. Pacific Time, excluding holidays). Additional support services are provided at www.hp.com	