

VPAT™

Voluntary Product Accessibility Template®

Version 1.3

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

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

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Name of Product: NCS FOUR4 DT-A426

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Summary Table		
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Criteria	Supporting Features	Remarks and explanations

<p>Section 1194.21 Software Applications and Operating Systems (12 provisions)</p>	<p>NCS is supplying Section 508 compliant office applications and operating systems by Microsoft</p>	<p>Windows 8 includes multiple improvements for assistive technologies and accessibility.</p> <p>The Narrator, Magnifier, On-Screen Keyboard, and High Contrast features have been extensively updated for use with the new Windows 8 UI, applications, and touch interface.</p> <p>The Windows Automation Application Programming Interface (API), has been updated to facilitate assistive technology and information technology interoperability. The Windows Automation API includes improved performance and features of User Interface (UI) Automation, and support for W3C Accessible Rich Internet Applications Specification (ARIA). Please refer to the Microsoft Developer Network Windows Automation API: Overview for additional information.</p> <p>Exceptions in individual features are noted in the main GPAT.</p> <p>Additional Windows accessibility features information can be found on the Windows 8 accessibility site.</p>
<p>Section 1194.22 Web-based Internet Information and Applications (16 provisions)</p>	<p>n/a</p>	<p>n/a</p>
<p>Section 1194.23 Telecommunications Products (14 provisions)</p>	<p>See below VPAT</p>	<p>NCS desktops do not have integrated keyboards or keypads. There are a few control buttons on the front of the unit.</p>
<p>Section 1194.24 Video and Multi-media Products (5 provisions)</p>	<p>See below VPAT</p>	<p>NCS desktops do not contain an integrated display.</p>
<p>Section 1194.25 Self-Contained, Closed Products (13 provisions)</p>	<p>n/a</p>	<p>n/a</p>
<p>Section 1194.26 Desktop and Portable Computers (4 provisions)</p>	<p>See below VPAT</p>	<p>NCS Desktops fully support these requirements</p>
<p>Section 1194.31 Functional Performance Criteria (6 provisions)</p>	<p>Generally Supported</p>	<p>Windows 8 supports most of these requirements with some noted exceptions</p>
<p>Section 1194.41 Information, Documentation and Support (3 provisions)</p>	<p>Supported</p>	<p>NCS fully support these requirements</p>

Section 1194.21 Software Applications and Operating Systems – Detail

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Criteria	Supporting features	Remarks and Explanations
<p>(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.</p>	Supported	<p>The vast majority of Windows 8 UI and applications follow standard conventions for navigating around the user interface from the keyboard.</p> <p>Users can adjust the way Windows responds to mouse or keyboard input so that key combinations are easier to press, typing is easier, and inadvertent key presses are ignored. For more information, see Make the keyboard easier to use.</p> <p>Please note the following exceptions:</p> <p>Drawing on the canvas of the Paint program is not possible through keyboard-only navigation. The Color Selection control in the Paint ribbon does not expose programmatically its state or selected color.</p> <p>In Explorer windows, the user can use the System menu (ALT+SPACEBAR) to resize the window. However, there is no keyboard method to resize individual panes (such as the navigation pane or the preview pane) or columns.</p> <p>Certain applications using the list view control do not expose a keyboard-only navigation mechanism for the user to change the sort-order or sort-by-column of the list view.</p> <p>The icons on the taskbar cannot be arranged through keyboard-only navigation unless the user closes all applications and restarts them in the desired order.</p> <p>Some Windows 8 UI and applications may not provide consistent keyboard navigation on all UI elements, but the ability for users to reach the UI elements is still possible.</p>

<p>(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.</p>	<p>Supported</p>	<p>Accessibility features of the operating system are uniformly applied. There are no known instances of Windows 8 applications or individual features that disable or disrupt the operation of the Windows accessibility features.</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>Supported</p>	<p>Programmatic and visual focus can be determined in all themes and color schemes. For improved visual appearance, the Ease of Access Center allows the user to increase the thickness of the focus rectangle and the cursor. The built-in magnifier provides the capabilities to track the location of the currently focused item.</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>Supported</p>	<p>Windows 8 includes multiple improvements in the Windows Automation Application Programming Interface (API), which will enable more powerful accessibility solutions to be created for the platform. The Windows Automation API includes improved performance and features of User Interface (UI) Automation. Please refer to the Windows Automation API: Overview site for additional information.</p> <p>User interface information is available programmatically to assistive technology vendors primarily through the User Interface Automation API. Graphics are also accompanied by explanatory text throughout the UI.</p> <p>Please note the following exceptions: In various scenarios, some UI elements in Windows features and applications may not consistently expose their state or name, thus requiring the user to determine the control type and behavior the scenario context. For example, screen readers will not read out the desktop background color since the name is not available from the system.</p> <p>In various scenarios, some UI elements in Windows features and applications may have duplicate names, causing ambiguity between elements when screen readers read the same name for both elements.</p> <p>RemoteApp programs are not programmatically accessible and screen readers will not read out their content. Users can leverage the screen reader on remote machines to programmatically access the server machine.</p> <p>The Problem Steps Recorder tool is not usable with the Narrator screen reader when running in Comment Mode.</p> <p>Narrator Touch users may not be able to manually close, minimize, or maximize the desktop Internet Explorer window. Users can close all tabs and use gestures to move to the close button, or use Narrator's Search and Select commands.</p> <p>Some Systray Icons are not programmatically exposed and therefore cannot be invoked by some assistive technologies.</p> <p>Windows Media Player core function buttons (Play, Shuffle, etc) are not programmatically exposed unless you first mouse hover or use the keyboard to interact with these controls.</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>Supported</p>	<p>Windows 8 consistently uses icons, graphics, status indicators, and other visuals to give feedback to the user and to indicate what actions can be taken.</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>Supported</p>	<p>Textual information is available programmatically to assistive technology vendors primarily through the User Interface Automation API. See the UI Automation Text Pattern documentation for more information.</p> <p>Please note the following exceptions:</p> <p>In Windows Media Player, the dialog New Auto Playlist does not textually expose certain details on configuring criteria for the playlists.</p>
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<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p>Supported</p>	<p>Windows 8 provides and follows settings for customizing specific color selections and display attributes using the four new inbox High Contrast themes.</p> <p>With the removal of the Windows Color and Appearance dialog, users will no longer have the ability to customize colors for specific UI elements. But users can customize colors for specific UI elements using any of the high contrast themes.</p> <p>Please note the following exceptions:</p> <p>The speech recognition tutorial does not switch colors in high-contrast modes, however the tutorial is not required to be completed by a user to use Windows speech recognition and an alternate means to train the speech system is available to the user. Basic operating information concerning speech commanding and dictation are also available in the help system.</p> <p>In Windows Media Player, hover preview does not work in high-contrast mode. The user can preview songs through other WMP mechanisms.</p> <p>Due to their non-standard visual nature, the games do not support the standard high-contrast modes. Instead, they provide a mechanism for the user to change their appearances and colors.</p> <p>In some Windows features or applications, some UI elements may not be shown in high contrast colors, even if the rest of the feature or application is respecting the high contrast theme.</p> <p>A desktop background that respects high contrast themes won't remain in high contrast when the Windows 8 provides and follows settings for customizing specific color selections and display attributes using the four new inbox High Contrast themes.</p> <p>With the removal of the Windows Color and Appearance dialog, users will no longer have the ability to customize colors for specific UI elements. But users can customize colors for specific UI elements using any of the high contrast themes.</p> <p>Please note the following exceptions:</p> <p>The speech recognition tutorial does not switch colors in high-contrast modes, however the tutorial is not required to be completed by a user to use Windows speech recognition and an alternate means to train the speech system is available to the user. Basic operating information concerning speech commanding and dictation are also available in the help system.</p> <p>In Windows Media Player, hover preview does not work in high-contrast mode. The user can preview songs through other WMP mechanisms.</p> <p>Due to their non-standard visual nature, the games do not support the standard high-contrast modes. Instead, they provide a mechanism for the user to change their appearances and colors.</p> <p>In some Windows features or applications, some UI elements may not be shown in high contrast colors, even if the rest of the feature or application is respecting the high contrast theme.</p> <p>A desktop background that respects high contrast themes won't remain in high contrast when the desktop is snapped in Windows 8. Users can choose to set a dark background color manually on the snapped desktop.</p> <p>Some Windows 8 applications may not switch to high contrast if turning the theme on while the application is running. Closing the application and reopening it after the theme is applied will resolve the issue.</p> <p>Toggling the high contrast setting in the Ease of Access control panel will sometimes prevent high contrast from being turned off. Users can reapply one of the non-high contrast themes manually in the Personalization control panel dialog to resolve the issue.</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>Supported</p>	<p>Windows 8 consistently uses icons, graphics, status indicators, and other visuals to give feedback to the user and to indicate what actions can be taken. Animation is not relied upon as the sole means of communicating concepts in the user interface or documentation.</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.	Supported	Windows 8 consistently uses icons, graphics, status indicators, and other visuals to give feedback to the user and to indicate what actions can be taken. Color coding is not relied upon as the sole means of communicating concepts in the user interface or documentation.
(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.	Supported	Windows 8 provides four new inbox High Contrast themes, and the ability to customize colors within each theme. This allows users to adjust background, foreground, text, window, and control colors to the combination that works best for them.
(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.	Supported	Flashing and blinking in Windows 8 visual surfaces respect the prescribed frequency range. As in Windows 7, the Ease of Access center allows the user to change the rate of blinking of the system caret.
(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.	Supported	Windows 8 introduced an inbox Reader application for PDF and XPS files, which can be used with Windows 8 inbox assistive technology features, as well as 3rd party assistive technology products (using exposed programmatic data).

Section 1194.22 Web-based Internet information and applications – Detail

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Criteria	Supporting Features	Remarks and explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via “alt”, “longdesc”, or in element content).	N/A	N/A
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	N/A	N/A

(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	N/A
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	N/A	N/A
(e) Redundant text links shall be provided for each active region of a server-side image map.	N/A	N/A
(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	N/A
(g) Row and column headers shall be identified for data tables.	N/A	N/A
(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	N/A
(i) Frames shall be titled with text that facilitates frame identification and navigation	N/A	N/A
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	N/A	N/A
(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	N/A	N/A
(l) When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive Technology.	N/A	N/A

(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 Section 1194.21(a) through (l).	N/A	N/A
(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.	N/A	N/A
(o) A method shall be provided that permits users to skip repetitive navigation links.	N/A	N/A
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	N/A	N/A

Section 1194.23 Telecommunications Products –

Detail

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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	N/A
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	N/A	N/A
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	N/A	N/A
(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.	N/A	N/A

<p>(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.</p>	<p>N/A</p>	<p>N/A</p>
<p>(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.</p>	<p>N/A</p>	<p>N/A</p>
<p>(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.</p>	<p>N/A</p>	<p>N/A</p>
<p>(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.</p>	<p>N/A</p>	<p>N/A</p>
<p>(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.</p>	<p>N/A</p>	<p>N/A</p>
<p>(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.</p>	<p>N/A</p>	<p>N/A</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>Supported</p>	<p>Our desktop computers do not contain integrated input devices. The supplied keyboard is a standard windows keyboard with tactile marks on the “j” and “f” keys.</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>Supported</p>	<p>Our desktop computers have a few button controls (Power on/off, optical drive tray open/close) on the front of the PC that are able to be controlled with one hand with minimal force (less than 5lbs).</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>Supported</p>	<p>Our desktop computers do not contain integrated input devices. The Windows 8 operating system can configure the NCS keyboard within the Windows 8 accessibility options</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>Supported</p>	<p>Our desktop computers do not contain integrated input devices. The supplied keyboard is a standard windows keyboard with status of all locking or toggle controls is visually discernible through three LED indicators located on the panel at the upper right corner of the keyboard. These toggles are also audibly discernible through the operating system.</p>

Section 1194.24 Video and Multi-media Products –

Detail

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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, video-tape, 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.	N/A	N/A
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	N/A	N/A

(c) All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned.	N/A	N/A
(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	N/A
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	N/A	N/A

**Section 1194.25 Self-Contained, Closed Products –
Detail**

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Criteria	Supporting Features	Remarks and explanations
(a) Self contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive Technology to the product. Personal headsets for private listening are not Assistive Technology.	N/A	N/A
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	N/A	N/A
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with Section 1194.23 (k) (1) through (4).	N/A	N/A

<p>(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.</p>	<p>N/A</p>	<p>N/A</p>
<p>(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.</p>	<p>N/A</p>	<p>N/A</p>
<p>(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.</p>	<p>N/A</p>	<p>N/A</p>
<p>(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.</p>	<p>N/A</p>	<p>N/A</p>
<p>(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.</p>	<p>N/A</p>	<p>N/A</p>
<p>(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>N/A</p>	<p>N/A</p>

<p>(j) (1) Products which are freestanding, nonportable, and intended to be used in one location and which have operable controls shall comply with the following: The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.</p>	<p>N/A</p>	<p>N/A</p>
<p>(j)(2) Products which are freestanding, nonportable, 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>N/A</p>	<p>N/A</p>
<p>(j)(3) Products which are freestanding, nonportable, 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 40 inches maximum and 15 inches minimum above the floor.</p>	<p>N/A</p>	<p>N/A</p>
<p>(j)(4) Products which are freestanding, nonportable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.</p>	<p>N/A</p>	<p>N/A</p>

Section 1194.26 Desktop and Portable Computers – Detail

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Criteria	Supporting Features	Remarks and explanations
a) All mechanically operated controls and keys shall comply with Section 1194.23 (k) (1) through (4).	Supported	NCS desktops do not have integrated keyboards or keypads. NCS is supplying a standard windows keyboard with tactile marks on the “j” and “f” keys. The force needed to activate the keys on the keyboard is less than 5lbs. The key repeat rate can be adjusted to at least 2 seconds in the operating system. The status of all locking or toggle controls is visually discernible through three LED indicators located on the panel at the upper right corner of the keyboard. These toggles are also audibly discernible through the operating system. Our desktop computers have a few button controls (Power on/off, optical drive tray open/close) on the front of the PC that are able to be controlled with one hand with minimal force (less than 5lbs).
(b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with Section 1194.23 (k) (1) through (4).	n/a	n/a
(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.	n/a	n/a
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	Supported	NCS is supplying industry standard connection points; NCS is supplying USB, PS/2, DVI, VGA, COM and standard audio connectors.

Section 1194.31 Functional performance criteria

Criteria Supported with minor exceptions	Supporting Features	Remarks and explanations
<p>(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.</p>	<p>Supported with minor exceptions</p>	<p>The vast majority of features and scenarios in Windows 8 can be used through assistive technologies such as screen-readers and therefore do not require user vision.</p> <p>Windows 8 comes with an improved screen reader (compared with Windows 7) called Narrator that will read aloud text that appears on the screen. Narrator supports touch, keyboard, and mouse input, and can be used with Windows 8 UI, features and applications.</p> <p>Windows also has settings for providing audio descriptions for videos and controlling how dialog boxes appear. For more information, see Use the computer without a display.</p> <p>Windows 8 Magnifier now supports touch input, in addition to the previous modes of operation – full-screen, lens, and docked mode – as well as color inverting. Full-screen magnification when a high contrast theme is active is also now supported. Note the minor exception that Magnifier docked mode is not supported for Windows 8 UI and applications, but can still be used for the traditional Windows 8 desktop and applications.</p> <p>Many other programs and hardware are compatible with Windows and available to help individuals who are blind, including screen readers, Braille output devices, and other useful products. For more information, go to the Microsoft Accessibility website.</p> <p>The limitations listed in sections 1194.21 may present difficulties for some users depending on their choice of and skills with specific assistive technologies.</p>

<p>(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.</p>	<p>Supported with minor exceptions</p>	<p>Windows 8 provides numerous features for improving the visibility of user interfaces, such as a built-in Magnifier, several High Contrast modes, several High-DPI modes, different screen resolutions (if supported by the hardware), and additional features from Ease of Access center for changing the size of the cursor, changing the thickness of the focus rectangle, and others.</p> <p>Windows 8 introduces a new High-PPI (pixels per inch) setting for Windows 8 UI and applications, called Make Everything Bigger. This setting allows users to quickly scale an application to the next highest resolution, and is available in the new lightweight Windows 8 UI Control Panel. Note the minor exception that this setting is only available with certain screen resolutions and only offers one scaling setting. The need for even larger text can be satisfied by the built-in Magnifier or other 3rd party assistive technologies.</p> <p>The limitations listed in sections 1194.21 may present difficulties for some users depending on their choice of and skills with specific assistive technologies.</p>
<p>(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.</p>	<p>Supported</p>	<p>In Windows 8, all sounds can be turned off without affecting the use of the operating system. Visual notifications or the Sound Sentry feature could alert the user to important information and tell them if sound events have occurred.</p> <p>Windows can replace two types of audio information with visual equivalents. Users can replace system sounds with visual alerts and can display text captions for spoken dialog in multimedia programs. For more information, see Use text or visual alternatives to sounds.</p>
<p>(d) Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for assistive hearing devices shall be provided.</p>	<p>Supported</p>	<p>Windows 8 consistently uses icons, graphics, status indicators and other visuals to give feedback to the user and to indicate what actions can be taken next. Sound is not relied upon as the sole means of communicating concepts in the user interface or documentation.</p> <p>Windows can replace two types of audio information with visual equivalents. Users can replace system sounds with visual alerts and you can display text captions for spoken dialog in multimedia programs. For more information, see Use text or visual alternatives to sounds.</p>

(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive Technology used by people with disabilities shall be provided.	Supported	While Windows 8 provides in-box support for speech input through the Windows Speech Recognition feature, speech is not required in order to use any feature.
(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.	Supported with minor exceptions	<p>Windows 8 includes an On-Screen Keyboard that user can use to type. The On-Screen Keyboard was improved in Windows 8 to include fade, docked, and navigation mode settings - allowing users to interact with Windows 8 UI and applications more effectively.</p> <p>Users can also use speech recognition to control the computer with voice commands, and dictate text into programs. For more information, see Use the computer without the mouse or keyboard.</p> <p>The limitations listed in sections 1194.21 may present difficulties for some users depending on their choice of and skills with specific assistive technologies.</p>

**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.	Supported	Digital user guides are available for download upon request.
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Supported	Available upon request

(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	Customer support already accommodates the communication needs of end-users with disabilities.
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