

VMware Virtual SAN with vSAN Health Check Plugin 6.0 VPAT©

October 2015

Since the VPAT must be comprehensive, all Section 508 issues on all pages must be corrected to sustain compliance.

Criteria	Supporting Features	Remarks and Explanations
Section 1194.21 Software Applications and Operating Systems	Supports with Exceptions	Please refer to the 1194.21 section for details.
Section 1194.22 Web-based Intranet and Internet Information and Applications	Supports with Exceptions	Please refer to the 1194.22 section for details.
Section 1194.23 Telecommunications Products	Not Applicable	Not Applicable
Section 1194.24 Video and Multi-media Products	Not Applicable	Not Applicable
Section 1194.25 Self-Contained, Closed Products	Not Applicable	Not Applicable
Section 1194.26 Desktop and Portable Computers	Not Applicable	Not Applicable
Section 1194.31 Functional Performance Criteria	Supports with Exceptions	Please refer to the 1194.31 section for details.
Section 1194.41 Information, Documentation, and Support	Supports	Please refer to the 1194.41 section for details.

Support Levels

Support Level	Description
Supports	The product fully meets the letter and intent of the Criteria.
Supports with Exceptions/Minor Exceptions	The product does not fully meet the letter and intent of the Criteria, but provides some level of access relative to the Criteria.
Supports through Equivalent Facilitation	The accessibility tester identified an alternate way to meet the intent of the Criteria or the product does not fully meet the intent of the Criteria.
Supports when combined with Compatible AT	The product fully meets the letter and intent of the Criteria when used in combination with Compatible Assistive Technology (AT). For example, many software programs can provide speech output when combined with a compatible screen reader, commonly used AT for people who are blind.
Does Not Support	The product does not meet the letter or intent of the Criteria.
Not Applicable	The Criteria does not apply to the specific product.
Not Applicable - Fundamental Alteration Exception Applies	A Fundamental Alteration of the product would be required to meet the Criteria (see the access board's standards for the definition of "fundamental alteration").

§ 1194.21 Software Applications and Operating Systems

Criteria	Support Level	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.	Does Not Support	While some controls such as the Virtual SAN 6.0 edit dialog and some elements within the Claim Disks and Create Disk Group dialogs are keyboard accessible, key elements such as the toolbar on the Disk Management screen and the disk selection tree view in the Claim Disks dialog are completely inaccessible via the keyboard.
(b) Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.	Supports with Exceptions	Virtual SAN 6.0 does not cause interference with activated or available accessibility features of other products or operating systems with some exceptions. The application does not honor Windows High Contrast options because it does not allow users to change background and foreground colors.
(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. (Related to well-defined focus control which will also be visually indicative).	Supports	The current focus can be tracked visually or through assistive technologies.
(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	Does Not Support	The toolbar on the Disk Management screen, which is the main functional control for Virtual SAN 6.0, is completely inaccessible to assistive technologies. Additionally, key components such

Criteria	Support Level	Remarks and Explanations
<p>element, the information conveyed by the image must also be available in text.</p>		<p>as the disk selection tree view in the Claim Disks dialog are completely inaccessible to assistive technologies.</p> <p>Read-only elements in the health monitoring screens that do not receive keyboard focus are not accessible to assistive technologies due to the Flash accessibility issues in the vCenter Web Client.</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>Supports</p>	<p>Images to identify user interfaces and other components have consistent meanings throughout Virtual SAN 6.0.</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>Does Not Support</p>	<p>vSphere Web Client 6.0 allows textual information to be provided through operating system functions however due to the way the Flash content is embedded most screen readers will have limited access to the content.</p>
<p>(g) Applications shall not override user selected contrast and color selections and other individual display attributes.</p>	<p>Supports with Exceptions</p>	<p>Virtual SAN 6.0 does not cause interference with activated or available accessibility features of other products or operating systems with some exceptions. The application does not honor Windows High Contrast options because it does not allow users to change background and foreground colors.</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>Not Applicable</p>	<p>Virtual SAN 6.0 does not have animation.</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>Supports with Exceptions</p>	<p>Virtual SAN 6.0 has textual and/or programmatically implemented equivalents when color-conveyed information is displayed to indicate an action, identify an element, or</p>

Criteria	Support Level	Remarks and Explanations
		require a response with some exceptions. Selected tabs and buttons are color-conveyed without text equivalents.
(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.	Not Applicable	Virtual SAN 6.0 does not have settings to adjust color contrast.
(k) Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	Supports	Virtual SAN 6.0 does not have content that flashes or blinks with a frequency greater than 2 Hz and lower than 55 Hz.
(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.	Does Not Support	Screen readers may not identify and navigate to all of the form elements in the application to complete and submit forms. Most edit boxes and combo boxes in dialogs do not have explicitly associated labels, which causes fields to be announced without labels or incorrect labels.

§ 1194.22 Web-based Intranet and Internet Information and Applications

Criteria	Support Level	Remarks and Explanations
(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	Supports with Exceptions	Non-text elements that are otherwise accessible provide text alternatives; however, some elements such as the Disk Management screen toolbar are completely invisible and inaccessible to assistive technologies.
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not Applicable	Virtual SAN 6.0 does not have multimedia presentations.
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Supports with Exceptions	When color conveys information or text, programmatically implemented equivalents are provided with a few exceptions, which include selected tabs and a selected button.
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Does Not Support	The vSphere Web Client 6.0 is mostly a Flash-based UI; however, the UI will not display correctly or at all when style sheets are disabled.
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not Applicable	Virtual SAN 6.0 does not have server-side image maps.
(f) Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	Not Applicable	Virtual SAN 6.0 does not have client-side image maps.
(g) Row and column headers shall be identified for data tables.	Supports	Row and column headers of data tables have identifying information.
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Supports	Virtual SAN 6.0 does not have data tables with multi-level columns or rows.
(i) Frames shall be titled with text that facilitates frame identification and navigation	Not Applicable	Frames are not used to display page content.
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supports	Web pages do not have content that flashes or blinks with a frequency greater than 2 Hz and lower than 55 Hz.
(k) A text-only page, with equivalent	Supports	A command line interface is provided as an

Criteria	Support Level	Remarks and Explanations
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.		alternative to the web based client.
(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.	Does Not Support	The Flash application is embedded in the browser in such a way that most assistive technologies have no access to the content. For assistive technologies such as JAWS that can correct the embedding and gain access to the application, only minimal accessibility is provided. Many interface elements such as the Disk Manager toolbar and all the health monitoring screens remain completely inaccessible.
(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).	Does Not Support	Virtual SAN 6.0 provides links to accessible applets and/or plug-ins whose files appear on the website. However, the Flash content itself is embedded in a manner that is inaccessible to most assistive technologies.
(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.	Does Not Support	Screen readers may not identify and navigate to all of the form elements in the application to complete and submit forms. Most edit boxes and combo boxes in dialogs do not have explicitly associated labels, which causes fields to be announced without labels or incorrect labels.
(o) A method shall be provided that permits users to skip repetitive navigation links.	Does Not Support	Assistive technology users and keyboard-only users cannot bypass repetitive navigation links.
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Does Not Support	When timed responses are required, the server does not alert users or provide them options for extended time.

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) - 6.0, (h) - 5.2, (i) - 12.1, (j) - 7.1, (k) - 11.4.

§1194.31 Functional Performance Criteria

Criteria	Support Level	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.	Does Not Support	<p>The Flash-based UI used in VSAN 6.0 is embedded in a manner that makes it completely inaccessible to most screen readers.</p> <p>Some screen readers such as JAWS can overcome the embedding issue; however, the Flash application has limited accessibility support with most UI content reading order scrambled, making the text content unintelligible.</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.	Supports with Exceptions	Virtual SAN 6.0 allows persons with less than 20/70 vision to retrieve information and perform product operations through audio, enlarged print output, and/or assistive technologies. The application does not honor Windows High Contrast options because it does not allow users to change background and foreground colors.
(c) At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive Technology used by people who are deaf or hard of hearing shall be provided	Supports	Virtual SAN 6.0 does not require hearing for information retrieval and operations.
(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	Virtual SAN 6.0 does not have audio information.
(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	Virtual SAN 6.0 does not require speech for information retrieval or operations. Support for assistive technologies may be provided.

Criteria	Support Level	Remarks and Explanations
<p>(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.</p>	<p>Does Not Support</p>	<p>VSAN 6.0 does not require fine motor control or simultaneous actions.</p> <p>However, a pointing device is required because the vSphere Web Client 6.0 is not fully keyboard accessible and assistive technologies may be unable to interact with the inaccessible Flash interface. Users who are unable to use a pointing device will be unable to fully access the application.</p>

§ 1194.41 Information, Documentation, and Support

Criteria	Support Level	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	Upon request, product support documentation shall be made available in other printed or online formats that VMware has available at the time of the request, at no additional charge.
(b) End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at no additional charge.	Supports	Upon request, product support documentation shall be made available in other printed or online formats that VMware has available at the time of the request, at no additional charge.
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supports	Upon request, product support documentation shall be made available in other printed or online formats that VMware has available at the time of the request, at no additional charge.