

Voluntary Product Accessibility Template (VPAT)®

Date: 6/3/2016

Name of Product: SQL Server 2016

Description of Product: SQL Server is the foundation of Microsoft's data platform, delivering mission-critical performance with in-memory technologies and faster insights on any data, whether on-premises or in the cloud.

Platform: PC x64

Product Build: TBD

Product ID:

Product website: [https://msdn.microsoft.com/en-us/library/mt590198\(v=sql.1\).aspx](https://msdn.microsoft.com/en-us/library/mt590198(v=sql.1).aspx)

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Table of Contents: Voluntary Product Accessibility Template

Criteria
Section 1194.21 Software Applications and Operating Systems
Section 1194.22 Web-based internet information and applications
Section 1194.23 Telecommunications Products
Section 1194.24 Video and Multi-media Products
Section 1194.25 Self-Contained, Closed Products
Section 1194.26 Desktop and Portable Computers
Section 1194.31 Functional Performance Criteria
Section 1194.41 Information, Documentation and Support

Criteria

Supporting Feature

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>	<p>Supported With Exceptions</p>	<p>MAS 36 - Keyboard - Supported With Exceptions - VSTS 7437714: Always Encrypted wizard - miscellaneous UI and accessibility issues VSTS 6046074: SSMS: Activity Monitor - Certain User interface elements are not accessible via the keyboard VSTS 1916613: "Analysis Services Configuration" window does not show hotkeys with the underline VSTS 1916489: "Collation description" in "Customize the SQL Server 2014 Database Engine Collation" dialog does no have any hotkey VSTS 1916606: "Database Engine Configuration" window does not show hotkeys with the underline VSTS 1917146: "Feature Configuration Rules" window does not show hotkeys with the underline VSTS 1916350: "Cancel" and "Help" don't have hotkeys VSTS 1916358: "Feature description" in the "Feature Selection" window does not have any hotkey VSTS 1917156: Pressing ENTER key can't open the "Status" links in "Feature Configuration Rules" window VSTS 1916346: Pressing ENTER key can't open the "Status" links in "Install Rules" window VSTS 1916339: Pressing ESC key can't close the main window "SQL Server Installation Center" VSTS 1916368: The hotkey of</p>
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Criteria	Supporting Feature	Remarks and Explanations
		<p>"Disk Space Requirements" does not work VSTS 1916353: The hotkeys in the "Setup Role" window don't work VSTS 1916469: Without pressing "ALT", the hotkeys are not shown up VSTS 7173872: RSconfig tool doesn't bind enter to "OK" action on some dialogs. (You also can't tab to the OK button) VSTS 7188219: Same keyboard shortcut for two items of Hadoop connection manager editor /</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>	

Criteria	Supporting Feature	Remarks and Explanations
<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 With Exceptions</p>	<p>MAS 05 A - Focus Visible - Supported With Exceptions - VSTS 7263327: Keyboard focus is lost when navigating through expandable tables VSTS 901572: Accessibility issues with Denali RTM / MAS 07 - No Keyboard Trap - Supported With Exceptions - VSTS 7106882: Back button should set the focus to the last focused item VSTS 7254280: customized logging level drop down closes immediately, when using keyboard control ALT + Down Arrow and by selecting the item using Up/Down Arrow VSTS 7188286: Esc cannot cancel dialog of Hadoop connection manager editor / MAS 40 - Info and Relationships - Not Applicable /</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>(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 With Exceptions</p>	<p>MAS 25 A - Consistent Identification - Supported With Exceptions - VSTS 7357192: The user experience with menus, menus show as links (download, settings, help) but with (View and new) they two show as links, but with the words expand / MAS 40 - Info and Relationships - Not Applicable /</p>

Criteria	Supporting Feature	Remarks and Explanations
(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.	Not Applicable	
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supported	
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Supported	
(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 With Exceptions	MAS 16 - Use of Color - Supported With Exceptions - VSTS 4502271 - Query Store UI - Using Color Procedure (We distinguish different plans in the plan summary chart by using different colors.) /

Criteria	Supporting Feature	Remarks and Explanations
<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>Supported With Exceptions</p>	<p>MAS 17 - Contrast (Minimum) - Supported With Exceptions - 1) The "Pin to Power BI" toolbar button displays with very poor contrast when a High Contrast theme is used, making it very difficult to see. This fix is planned for SQL 2016 SP1 Some graphics that are providing information essential to the report disappear when you hover the mouse over them. 2) Some graphics that are providing information essential to the report disappear when you hover the mouse over them in High contrast mode. VSTS 7251506: Paginated Reports - Main report toolbar button displays with poor contrast /</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>Not Applicable</p>	

Criteria	Supporting Feature	Remarks and Explanations
(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 With Exceptions	MAS 06 - On Focus - Supported With Exceptions - VSTS 7174069: SSRS portal: Keyboard: The keyboard focus is reset after navigation action / MAS 19 - Labels or Instructions - Supported With Exceptions - VSTS 7351070: There's a notice when editing a caching schedule that reads "All times are expressed in ." But the page doesn't actually tell you which way the times are expressed; that notice is incomplete. / MAS 21 - On Input - Supported /

Vendor #214 - Web-based Internet Information and applications

Criteria	Supporting Feature	Remarks and Explanations
<p>(a) A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).</p>	Supported With Exceptions	<p>MAS 20 - Non-text Content - Supported With Exceptions - VSTS 7377760: In reports that accept parameters, "Show Parameters" button flashes between graphical icon and textual description VSTS 7214527: Paginate Reports: Charts VSTS 7251674: Paginated Reports:-mixture of text and graphics, with no descriptive text for the graphics (KPI) VSTS 7214289: Map data points are tabbable VSTS 7194890: KPI graph should be labeled with description VSTS 7309266: charts in mobile reports have textual explanations that are exposed when the user long presses the primary mouse button/touchscreen on different areas of the charts. Need to expose this to screen readers. / MAS 63 - Audio-Only and Video-Only (Pre-Recorded) - Not Applicable /</p>
<p>(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.</p>	Not Applicable	
<p>(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.</p>	Supported With Exceptions	<p>MAS 16 - Use of Color - Supported With Exceptions - VSTS 4502271 - Query Store UI - Using Color Procedure (We distinguish different plans in the plan summary chart by using different colors.) /</p>
<p>(d) Documents shall be organized so they are readable without requiring an associated style sheet.</p>	Not Applicable	

Criteria	Supporting Feature	Remarks and Explanations
(e) Redundant text links shall be provided for each active region of a server-side image map.	Not Applicable	
(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	
(g) Row and column headers shall be identified for data tables.	Not Applicable	
(h) Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	Not Applicable	
(i) Frames shall be titled with text that facilitates frame identification and navigation	Supported	
(j) Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not Applicable	
(k) A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.	Not Applicable	
(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.	Supported	
(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).	Not Applicable	

Criteria	Supporting Feature	Remarks and Explanations
(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.	Supported With Exceptions	MAS 06 - On Focus - Supported With Exceptions - VSTS 7174069: SSRS portal: Keyboard: The keyboard focus is reset after navigation action / MAS 19 - Labels or Instructions - Supported With Exceptions - VSTS 7351070: There's a notice when editing a caching schedule that reads "All times are expressed in ." But the page doesn't actually tell you which way the times are expressed; that notice is incomplete. / MAS 21 - On Input - Supported /
(o) A method shall be provided that permits users to skip repetitive navigation links.	Supported	
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supported With Exceptions	MAS 10 - Timing Adjustable - Supported With Exceptions - VSTS 7351135: In the General Settings page, the spin control tied to the first radio button "Allow the report to run for n seconds before timing out" becomes unavailable when you select the other radio button in the pair; this is by design and makes sense /

4.1.1.2.2.2 Telecommunications Products

Criteria	Supporting Feature	Remarks and Explanations
(a) Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.	Not Applicable	

Criteria	Supporting Feature	Remarks and Explanations
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.	Not Applicable	
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Not Applicable	
(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.	Not Applicable	
(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.	Not Applicable	
(f) For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.	Not Applicable	
(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.	Not Applicable	
(h) Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided.	Not Applicable	
(i) Interference to hearing technologies (including hearing aids, cochlear implants, and assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.	Not Applicable	

Criteria	Supporting Feature	Remarks and Explanations
<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>	Not Applicable	
<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>	Not Applicable	
<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>	Not Applicable	
<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>	Not Applicable	
<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>	Not Applicable	

Section 119.177 Video and Multi-Media Products

Criteria	Supporting Feature	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>	Not Applicable	
<p>(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.</p>	Not Applicable	
<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, shall be open or closed captioned.</p>	Not Applicable	
<p>(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.</p>	Not Applicable	
<p>(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.</p>	Not Applicable	

Criteria	Supporting Feature	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.	Supported	
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Supported	
(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).	Supported	
(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.	Supported	
(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.	Supported	
(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.	Supported	
(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.	Supported	
(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.	Supported	
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Supported	

Criteria	Supporting Feature	Remarks and Explanations
(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.	Not Applicable	
(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.	Not Applicable	
(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.	Not Applicable	
(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.	Not Applicable	

Section 1194.23 (k) (1) through (4) - Operable Controls

Criteria	Supporting Feature	Remarks and Explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Not Applicable	
(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).	Not Applicable	

Criteria	Supporting Feature	Remarks and Explanations
(c) When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	Not Applicable	
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards	Not Applicable	

2.4.3.1.1.4 Functional Performance Criteria

Criteria	Supporting Feature	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.	Not Applicable	This section manual, needs review.
(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.	Not Applicable	This section manual, needs review.
(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	Not Applicable	This section manual, needs review.
(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.	Not Applicable	This section manual, needs review.
(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.	Not Applicable	This section manual, needs review.

Criteria	Supporting Feature	Remarks and Explanations
(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.	Not Applicable	This section manual, needs review.

Level of Information, Documentation, and Support

Criteria	Supporting Feature	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	
(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	
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported With Exceptions	MAS 57 - Support Services - Supported With Exceptions - VSTS 1916459: Help document is not ready /

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