UNITED STATES DEPARTMENT OF STATE INFORMATION RESOURCE MANAGEMENT

IMPACT

PROGRAM FOR ACCESSIBLE COMPUTER/COMMUNICATION TECHNOLOGY

Voluntary Product Accessibility Template (VPAT)

Date: 02/28/2018
Product Name: Autodesk Robot Structural Analysis Professional 2019
Product Version Number: 2019
Vendor Company Name: Autodesk, Inc.
Vendor Contact Telephone: 415-356-0700

APPENDIX A: Suggested Language Guide

Summary Table Voluntary Product Accessibility Template		
Criteria	Level of Support & Supporting Features	Remarks and explanations
Section 1194.21 Software Applications and Operating Systems	Supports with exceptions	See Section 1194.21 for details
Section 1194.22 Web-based Internet Information and Applications	Not Applicable	
Section 1194.23 Telecommunications Products	Not Applicable	
Section 1194.24 Video and Multi-media Products	Not Applicable	
Section 1194.25 Self-Contained, Closed Products	Not Applicable	
Section 1194.26 Desktop and Portable Computers	Not Applicable	
Section 1194.31 Functional Performance Criteria	Supports with exceptions	See Section 1194.21 for details
Section 1194.41 Information, Documentation and Support	Supports with exceptions	See Section 1194.21 for details

Section 1194.21 Software Applications and Operating Systems - Detail Voluntary Product Accessibility Template		
Criteria	Level of Support & Supporting Features	Remarks and explanations
(a) When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.	Supports with exceptions	Keyboard input is provided for most functions. Supports standard shortcut keys for most functions. MouseKeys and StickyKeys are supported for features not directly accessible through keyboard functions. There is a dialog box that allows customization of keyboard shortcuts for most functions. No command line access is provided. Robot Structural Analysis supports keytips for main toolbar tabs and most of the controls in the toolbar. Contextual tabs do not have keytips, but you can use the Keyboard Shortcuts feature to assign shortcuts to contextual tab functions. Does not support moving between sections (or panes) of the application window without using MouseKeys. You need Mousekeys to move from the project browser pane to the Properties palette. There is no keyboard access to the Infocenter in the title bar.
(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	Supports	A sample of common office applications was tested and no disruption of accessibility features was noted. Testing has

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.		indicated that the Robot Structural Analysis software program does not disrupt the accessibility features of other products on the end-user's system.
(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.	Supports with exceptions	Focus is programmatically exposed for navigation within some interface panes, but movement between panes in the toolbar and through all pane options and menus is not supported without the use of MouseKeys or other mouse- equivalent software. Most dialog boxes have a well-defined indicator of focus.
(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.	Supports with exceptions	Robot Structural Analysis provides inconsistent information about user interface elements via the Microsoft Accessibility Applications. For example toolbar text, tooltips and some information in Help are not available to screen readers. Tooltip equivalents of toolbar buttons text are provided, but audio versions are not supported. Toolbar and toolbar button images generally have textual equivalents in the expanded state. Not all drawing-related elements provide consistent equivalent textual information.

		Labels in the Browser tree are not accessible to Microsoft Narrator. Some graphic list boxes do not allow screen readers to access the text that describes a fill pattern.
(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.	Supports with exceptions	Bitmap images and actions associated with them are generally consistent.
(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.	Supports with exceptions	Robot Structural Analysis provides textual information for most functions. Some read-only text inside dialogs is not accessible to screen readers. The captions on the SteeringWheels® and ViewCube. ® are not accessible. Robot Structural Analysis provides inconsistent information to assistive technologies. In addition, ALT text equivalents of toolbar button text are provided, but audio versions are not supported. Some buttons have no text label (only an ellipsis).
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports with exceptions	Robot Structural Analysis does not override most contrast and color selections. Testing shows that under High Contrast accessibility settings the toolbar and some areas of Robot Structural Analysis do not change to the high contrast appearance. The Project Browser and canvas, for

		example do not change contrast when the High Contrast setting is chosen in the Windows accessibility options. For example, the background of some views does not take on the high-contrast background.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Supports	Animations are used to animate diagrams of quantities obtained during structural analysis, but the values are also available in text format.
(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.	Supports with exceptions	Color-coding is not used as the only means of conveying information. The user has the ability to enter a color index or in certain cases a RGB value. Users can also use pre-defined named colors as described by PANTONE®, RAL, and DIC® color systems. Color coding is used to indicate clickable controls. There are alternate methods of achieving these tasks, but no other method of visually identifying clickable controls. The indicator color is blue and cannot be modified by the user.
(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.	Supports with exceptions	Robot Structural Analysis provides a wide variety of color selections for many elements including objects, lines, and annotation symbols,. The user has the ability to customize the application window. Users can also use pre-

		defined named colors as described by PANTONE, RAL, and DIC.
(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	Robot Structural Analysis does not use flashing or blinking text.
(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.	Supports with exceptions	Microsoft Active Accessibility applications like the Narrator can be used to access **some** particulars of the components of a form/dialog box. Most functions in forms/dialog boxes are accessible through MouseKeys and standard Windows tabbing and keyboard shortcuts.

Section 1194.22 Web-based Intranet and Internet information and Applications - Detail Voluntary Product Accessibility Template

Criteria	Level of Support & 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).	Not Applicable	
(b) Equivalent alternatives for any multimedia presentation shall be synchronized with the presentation.	Not Applicable	
(c) Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	Not Applicable	
(d) Documents shall be organized so they are readable without requiring an associated style sheet.	Not Applicable	

(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	Not Applicable	
(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.	Not Applicable	
(m) When a web page requires that an applet, plug-in or other application be present on the client	Not Applicable	

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).		
(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.	Not Applicable	
(o) A method shall be provided that permits users to skip repetitive navigation links.	Not Applicable	
(p) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not Applicable	

Section 1194.23 Telecommunications Products - Detail
Voluntary Product Accessibility Template

Criteria	Level of Support & 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.	Not Applicable	
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-	Not Applicable	

manufacturer non-proprietary standard TTY signal protocols.		
(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	Not Applicable	

magnetic wireless coupling to hearing technologies shall be provided.		
(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	
(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.	Not Applicable	
(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.	Not Applicable	
(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	Not Applicable	

keys shall be 5 lbs. (22.2N) maximum.		
(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.	Not Applicable	
(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.	Not Applicable	

Section 1194.24 Video and Multi-media Products – Detail Voluntary Product Accessibility Template		
Criteria	Level of Support & 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, 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	Not Applicable	

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.		
(b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.	Not Applicable	
(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.	Not Applicable	
(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.	Not Applicable	
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Not Applicable	

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

Criteria	Level of Support & 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.	Not Applicable	
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.		
(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).	Not Applicable	
(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.	Not Applicable	
(e) When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at anytime.	Not Applicable	
(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	Not Applicable	

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.		
(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.	Not Applicable	
(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.	Not Applicable	
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not Applicable	
(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	Not Applicable	

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.		
(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 1194.26 Desktop and Portable Computers		
Criteria	Level of Support & Supporting Features	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	

(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	

Section 1194.31 Functional Performance Criteria – Detail Voluntary Product Accessibility Template		
Criteria	Level of Support & Supporting Features	Remarks and explanations
(a) At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive Technology used by people who are blind or visually impaired shall be provided.	Supports with exceptions	Robot Structural Analysis supports assistive technologies with some exceptions and inconsistencies. Commonly-used Assistive Technology (AT) may be used with Robot Structural Analysis. Users of Assistive Technology should contact their AT vendors to evaluate the compatibility of their products with Autodesk software. Graphics in Help do not have tooltips or ALT text. ALT text equivalents of toolbar button text are provided but some dialogs have graphic buttons with no audio support.
(b) At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in	Supports with exceptions	No audio is available in the product. Keyboard navigation is provided for many functions. Robot Structural Analysis works well with the Microsoft

audio and enlarged print output working together or independently, or support for Assistive Technology used by people who are visually impaired shall be provided.		Magnifier tool. Keyboard navigation is provided for many toolbar commands. Microsoft Accessibility applications like Microsoft Narrator can access some particulars of the components of a form/dialog
(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	Robot Structural Analysis does not require user hearing to operate the system. No audio is provided by the product beyond the use of standard operating system alerts that can be displayed visually using Microsoft Accessibility settings.
(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	Robot Structural Analysis does not require hearing to operate the system. No audio is provided by the product beyond the use of standard operating system alerts that can be displayed visually using Microsoft Accessibility settings.
(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	Robot Structural Analysis does not require user speech to operate the software.
(f) At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.	Supports with exceptions	Keyboard navigation is provided for most commands and dialogs. Some dialogs do not allow users to move from one area to another. Robot Structural Analysis supports use of Microsoft Accessibility applications for users with mobility concerns such as MouseKeys, StickyKeys and FilterKeys.

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

Criteria	Level of Support & Supporting Features	Remarks and explanations
(a) Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge	Supports with exceptions	Support documentation is available within the product itself, in the Help area. Some documentation is available in PDF format. Printed manuals are not available for Robot Structural Analysis.
(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 with exceptions	This document is posted on our website at http://www.autodesk.com. Search for "Section 508
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supports with exceptions	Support services options are available via webpage, e-mail, fax, or phone. Direct, in-person support is also available through resellers.

APPENDIX A (of the DoS VPAT/GPAT Checklist)

Suggested Language for Filling out the VPAT/GPAT

In order to simplify the task of conducting market research assessments for procurement officials or customers, ITIC (Information Technology Industry Council) has developed suggested language for use when filling out a VPAT/GPAT. You may choose to employ all or some of the language below. Once you determine what language you intend to use, we recommend that use is consistent throughout all of your VPAT/GPATs.

Supporting Features (Column 2 on VPAT/GPAT)

Supports
Use this language when you determine the product fully meets the letter and intent of the Criteria.

Supports with Exceptions
Use this language when you determine 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

Use this language when you have identified an alternate way to meet the intent of the Criteria or when the product does not fully meet the intent of the Criteria.

Supports when combined with Compatible AT

Use this language when you determine the product fully meets the letter and intent of the Criteria when used in combination with Compatible AT. For example, many software programs can provide speech output when combined with a compatible screen reader (commonly used assistive technology for people who are blind).

Does not Support

Use this language when you determine the product does not meet the letter or intent of the Criteria.

Not Applicable

Use this language when you determine that the Criteria do not apply to the specific product.

Not Applicable - Fundamental Alteration Exception Applies

Use this language when you determine a Fundamental Alteration of the product would be required to meet the Criteria (see the access board standards for the definition of "fundamental alteration").

IMPACT Outreach Center

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