



De Novo

TM

S o f t w a r e

Voluntary Product Assessment Template (VPAT)

FCS Express Version 4

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Section 508 Evaluation for FCS Express Version 4

Date: July 19, 2011
 Name of Product: FCS Express 4 Flow Cytometry RUO, FCS Express 4 Flow Cytometry IVD, FCS Express 4 Image Cytometry, FCS Express 4 Plus (FCSE), Version 4 software family
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This VPAT was prepared using the U.S. Department of Health and Human Services template and instructions at <http://www.hhs.gov/od/vendors/vpathsinstructions.html>.

Summary Table		
Criteria	Supporting Features	Remarks and explanations
Section 1194.21 Software Applications and Operating Systems	Supports with Exceptions	Refer to §1194.21 table
Section 1194.22 Web-based internet information and applications	Not Applicable	FCSE is not a web-based or internet application
Section 1194.23 Telecommunications Products	Not Applicable	FCSE is software, not a telecommunications product
Section 1194.24 Video and Multi-media Products	Not Applicable	FCSE is software, not a video or multimedia product
Section 1194.25 Self-Contained, Closed Products	Not Applicable	FCSE is software, not a self-contained or closed product
Section 1194.26 Desktop and Portable Computers	Not Applicable	FCSE is software, not hardware
Section 1194.31 Functional Performance Criteria	Supports with Exceptions	Refer to §1194.31 table
Section 1194.41 Information, documentation, and support.	Supports	Refer to §1194.41 table

Section 1194.21 Software Applications and Operating Systems

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>	<p>Supports</p>	<p>FCSE generally follows standard conventions for navigating around the user interface from the keyboard.</p> <p>In the few cases where direct keyboard commands do not execute product functions or behave in a counterintuitive manner, assistive technology (AT) employing the Microsoft Active Accessibility (MSAA) feature called MouseKeys allows users to use the numeric keypad to control the mouse pointer and execute functions that way.</p> <p>FCSE also supports use of other MSAA features such as StickyKeys, FilterKeys, MouseKeys, and ToggleKeys, which aid keyboard users.</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>Supports</p>	<p>There are no known instances of FCSE disabling or disrupting the operation of MSAA 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>Supports</p>	<p>FCSE indicates the current focus through standard Windows means (shading, dotted border, or carat). The focus is exposed to assistive technology, such as the MSAA feature set.</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>Supports with Exceptions</p>	<p>FCSE generally provides sufficient information about user interface elements to AT. However, in one FCSE window there are instances where icons representing program elements have no text associated with them.</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>Bitmaps are consistently depicted throughout FCSE</p>

Section 1194.21 Software Applications and Operating Systems

Criteria	Supporting Features	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.	Supports	Text is provided through operating system functions
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports with Exceptions	Some contrast and color selections that the user selects in Windows (e.g., High Contrast MSAA features) are maintained in FCSE. In cases where they are not, users can adjust colors within FCSE to display a variety of colors and contrasts. Refer to 1194.21(j).
(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	Animation in FCSE is limited to a capability to show animated transitions between menu items. These animations are off by default and can be turned off if activated.
(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	Generally there are means in addition to or instead of color coding, such as changing in border size and inversion of background, display of additional text, which convey information, indicate an action, prompt a response, or distinguish a visual element. However, color coding is the only means of conveying that objects in a layout have been selected.
(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	FCSE allows users to adjust color settings over the entire color spectrum, which can produce a range of contrast levels.
(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.	Not Applicable	FCSE does not use flashing or blinking text, objects, or elements. The blink of the input carat is dependent upon the setting in the operating system.
(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	FCSE allows people using AT to access all aspects of forms and in most cases provides directions and cues. However, in some cases, FCSE does not provide some directions and cues through the Windows Narrator text-to-speech feature.

Section 1194.31 Functional Performance Criteria

Criteria	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	Support for AT is generally provided. However, in some cases the MSAA capabilities of Windows Narrator are not fully implemented in FCSE (refer to 1194.21(I) for further detail).
(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	FCSE can be operated through the standard mouse and keyboard arrangement, which does not require visual acuity greater than 20/70. FCSE provides an enlarged print option through the use of the Windows Magnifier. FCSE generally supports use of the MSAA Windows Narrator.
(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	FCSE does not use sound.
(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	FCSE does not use sound; therefore, audio information is not important for the use of it.
(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	FCSE does not require user speech to operate
(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	FCSE operation and information retrieval can be facilitated by using MSAA StickyKeys and FilterKeys functions.

Section 1194.41 Information, documentation, and support.

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.	Supports	Help screens and the PDF manual are readable using Windows Narrator. De Novo Software can provide alternate document formats if requested by a user.
(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	This VPAT is distributed electronically in a common format that is readable using Windows Narrator. De Novo Software can provide alternate formats of this document as requested.
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supports	De Novo Software can be reached by phone, email, and web forum, which accommodates a range of disabilities.