Date: October 8, 2014
Name of Product: FLEX System Enterprise Chassis (with compliant CMM, version 1.5 or higher)

VPAT Summary

Criteria	Status	Remarks and Explanations
Section 1194.21 Software Applications and Operating Systems	Not applicable	Not applicable
Section 1194.22 Web-based Internet information & applications	Not applicable	Not applicable
Section 1194.23 Telecommunications Products	Supports	Refer to Section 1194.23 in VPAT Details section below.
Section 1194.24 Video and Multi-media Products	Not applicable	Not applicable
Section 1194.25 Self-Contained, Closed Products	Supports	Refer to Section 1194.25 in VPAT Details section below.
Section 1194.26 Desktop and Portable Computers	Supports	Refer to Section 1194.26 in VPAT Details section below.
Section 1194.31 Functional Performance Criteria	Supports	Refer to Section 1194.31 in VPAT Details section below.
Section 1194.41 Information, Documentation, and Support	Supports	Refer to Section 1194.41 in VPAT Details section below.

VPAT Details

Section 1194.23 Telecommunications Products - Detail

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.	Not applicable	
(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 telecommunication 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	

Criteria	Supporting Features	Remarks and Explanations
(g) If the telecommunications product allows a user to adjust the receiver 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) Interface 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 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.	Supports: Touch can be used to identify and distinguish controls and keys without activating them.	The following component meets this criterion: - FLEX System Enterprise Chassis (with compliant CMM, version 1.5 or higher): - Chassis - Single push button is tactilely discernible
(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	Supports: Controls and latches can be reached and operated using one hand and require minimal dexterity for ease of use by mobility impaired users.	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis - Only one push button for future service interaction. Some service tasks like removing and installing Switches and Pass-through modules have two latches (on cam out handles) designed for two handed operation, that may be operated individually. Removal of chassis shelfs can be accomplished using one hand by first releasing one side, then the other, and finally pulling shelfs out with single hand. Other components designed to be operable with one hand and minimal dexterity. CMM hardware: Resetting the chassis management module to factory defaults requires some manual dexterity because push button is behind pin hole to prevent inadvertent activation. Individual nodes have separate CI-162 DB entries. Tasks depend on location of the chassis within the rack. Some locations (either very high or very low) are not conducive to accessibility.
(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	The following component does not apply to this criterion: - FLEX System Enterprise Chassis: - Chassis - Key repeat not supported.
(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	The following component does not apply to this criterion: - FLEX System Enterprise Chassis - Chassis - No locking or toggle keys.

Section 1194.25 Self-Contained, Closed Products - Detail

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.	Not applicable	

Criteria	Supporting Features	Remarks and Explanations
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable	
(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	The following component does not apply to this criterion: - FLEX System Enterprise Chassis: - Chassis - No volume to control.
(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.	Not applicable	
(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.	Supports: Color is used only as an enhancement, and an alternate means to convey information or indicate an action is available to users with visual impairments.	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis - No bi-color LEDs. Color coding used as an enhancement only. Fillers and inactive components are visually different than powered components as well as color coded. Color coded touch point labeling Terracotta for hot swap and IBM Blue for touch points are shades that are distinguishable for color blind individuals.
(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. (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. (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. (j)(4) Products which are freestanding, non-portable,	Not applicable	

Criteria	Supporting Features	Remarks and Explanations
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.		

Section 1194.26 Desktop and Portable Computers - Detail

Criteria	Supporting Features	Remarks and Explanations
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	Supports: See 1194.23(k) 1 through 4.	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis - Only one push button for future service interaction. Some service tasks like removing and installing Switches and Pass-through modules have two latches (on cam out handles) designed for two handed operation, that may be operated individually. Removal of chassis shelfs can be accomplished using one hand by first releasing one side, then the other, and finally pulling shelfs out with single hand. Other components designed to be operable with one hand and minimal dexterity. CMM hardware: Resetting the chassis management module to factory defaults requires some manual dexterity because push button is behind pin hole to prevent inadvertent activation. Individual nodes have separate CI-162 DB entries. Tasks depend on location of the chassis within the rack. Some locations (either very high or very low) are not conducive to accessibility.
(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	The following component does not apply to this criterion: - FLEX System Enterprise Chassis: - Chassis - No touch screen or touch operated controls.
(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	The following component does not apply to this criterion: - FLEX System Enterprise Chassis: - Chassis - No biometric identification.
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	Supports: The product design uses industry standard ports so that alternative equipment and assistive technologies can be accommodated.	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis - CMM has RJ-45, USB, and Mini-USB (Serial) connectors. Individual nodes (separate CI-162 entries) have standard USB and a custom Keyboard, Video, and Mouse connector that requires a dongle. Dongle breaks out to standard DB15 (VGA) and two USB connectors.

Section 1194.31 Functional Performance - Detail

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: See the following for supporting features: - 1194.23 k1, k4 - 1194.25 a, b, c, e, f, g - 1194.26 b, d	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis
(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 what are visually impaired shall be provided.	Supports: See the following for supporting features: - 1194.25 h - 1194.26 d	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis
(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	Supports: See the following for supporting features:	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis

Criteria	Supporting Features	Remarks and Explanations
provided.	- 1194.23 k4 - 1194.25 e, f	
(d) Where audio information is important for the use of the 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: See the following for supporting features: - 1194.23 k4 - 1194.25 e, f	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis
(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	
(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: See the following for supporting features: - 1194.23 k1, k2, k3 - 1194.25 b, j1, j2, j3, j4 - 1194.26 d	The following component meets this criterion: - FLEX System Enterprise Chassis: - Chassis

Section 1194.41 Information, Documentation, and Support - Detail

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:
	Product support documentation is provided in at least one accessible format.
		The following components meet this criterion:
		
		- FLEX System Enterprise Chassis:
		  - Chassis - Images have text alternatives or are described in the surrounding text. Only one form is used in the Info Center for feedback and it is compliant. Tables are coded to standards and relationships between cells can be programmatically determined. Web pages are readable without style sheets. Color is not used as the only means of conveying information. Content is not affected by scripting HTML versions of the content in PDFs will be available in the IC. Skip to main content is provided. Frames have titles and are accessible.
		    There are image maps, audio or video, multimedia. No time limits will be required for user interaction with the product documentation. HTML versions of PDFs will be provided to allow for accessibility.
		
		    For the following components, non-text content has text equivalent in Information center. Client side image maps have text alternative. Form labels can be programmatically determined. Table cells and relationships can be programmatically determined. Pages are readable without stylesheets. Color is not used as the only means of conveying information. Scripts are keyboard accessible. Title and frame source are provided for each frame.
		    There are no pre-recorded media, audio or live media, timed responses, flashing or blinking elements, no applets, plug-ins, or non-HTML content. Pages can be accessed in Information Center.
		
		- Information Center:
		  - Core Framework: Documentation
		  - Core Framework

(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:
	Documentation includes a description of accessibility and compatibility features that make it easier for people with disabilities to use the product. Those descriptions are available in alternate formats upon request.
		The following components meet this criterion:
		
		- FLEX System Enterprise Chassis:
		  - Chassis - Section in the information center covers accessibility.
		
		    For the following components, accessibility features and controls are documented in the Information Center help.
		
		- Information Center:

Criteria	Supporting Features	Remarks and Explanations
		- Core Framework: Documentation - Core Framework
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supports: In addition to standard IBM help desk and support Web sites, IBM has established a TTY telephone service for use by deaf or hard of hearing customers to access sales and support services.	

Other products packaged with FLEX System Enterprise Chassis (with compliant CMM, version 1.5 or higher)

Product / Component name (web link to VPAT)	Status	Function provided by product
FLEX System Chassis Management Module 1.5 (GA4; 2PET12D)	Accessible	

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