
SIEMENS PLM SOFTWARE

NX Voluntary Product Accessibility

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Change History	
07August 2009	First Draft
21November2013	Update to NX 9
05February2014	Add section 1194.31. Update to NX 10
03January 2017	Reviewed against current product version (NX 11). No changes required.
19January 2019	Reviewed against current product version (NX 12). No changes required.
16July 2019	Reviewed against current product version (NX 1847). No changes required.
13January 2020	Reviewed against current product version (NX 1899). No changes required.

Section 1194.21 Software Applications and Operating Systems - Detail Voluntary Product Accessibility Template

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>Using keyboard accelerators or menu bar shortcut keys, you can access every NX command via the keyboard. The shortcut keys are displayed textually in the menus. In most dialogs (aka forms), you can navigate through all dialog items with Tab, Space, arrow keys, etc.</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>NX does not disrupt or disable activated features of other products or operating systems.</p>

Criteria	Supporting Features	Remarks and explanations
(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	Keyboard focus in text fields uses the standard pending delete highlighting of the field. NX even displays a focus indicator for the current step when a selection in the graphics window is required.
(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	Everywhere NX uses image-only controls, the tooltip displays explanatory text. NX has recently added balloon tooltips which display more detailed images and text about the user interface element the user is hovering over.
(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	NX has a library of bitmaps with a dedicated staff focused on consistency and standards.
(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	NX has an Information Window that, at a user's request, displays optional textual information. Currently, the font type and size used in the window are hard-coded. However, this information can be copy/pasted or saved to an alternative file editor where font type and size can be user-controlled.

Criteria	Supporting Features	Remarks and explanations
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports	NX honors user selected color or contrast selections.
(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	NX presents options for manual manipulation of animation.
(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	While NX uses color to convey information, that information is also displayed using symbols or text.
(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	NX has 7 different color palette choices with up to 60 colors in each palette.
(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	NX does not use any flashing or blinking in its user interface.

Criteria	Supporting Features	Remarks and explanations
(I) 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.	N/A	

**Section 1194.22 Web-based Internet information and applications - Detail
Voluntary Product Accessibility Template**

NX is not a web-based application, so this section is N/A.

Section 1194.31 Functional Performance Criteria - Detail Voluntary Product Accessibility Template

(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 Meet Standards
a.1	Are all features of the product or service available to users of the product or service with no vision?	Does Not Meet Standards
a.2	Are all features of the product or service available to users of the product or service with assistive technology?	Meets Standards. (Could use more details on the specific assistive technology).
a.3	Are all features of the product or service available to users of screen readers? (The product or service can not be usable with one screen reader and not another.)?	Meets Standards
a.4	Are all features of the product or service available to users of Braille displays?	Does Not Meet Standards
a.5	If visual alerts are provided, are they also available in an auditory manner?	Does Not Meet Standards
a.6	If multimedia products are provided are they video described?	Not Applicable
ID	1194.31 Standard Criteria & Checklist Questions Evaluation	

(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.	Meets Standards. (Could use more details on the specific assistive technology).
b.1	Are all features of the product or service available to users of the product or service with low vision?	Meets Standards
b.2	Are all features of the product or service available to users of the product or service with low vision using assistive technology such as screen magnifiers (The product or service can not be usable with one screen magnifier and not another.)?	Meets Standards
b.3	If visual alerts are provided, are they also available in an auditory manner?	Does Not Meet Standards
b.4	If multimedia products are provided are they video described?	Not Applicable
b.5	If multimedia products are provided can they be enlarged?	Not Applicable
(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.	Meets Standards
c.1	Are all features of the product or service available to users of the product or service with no hearing?	Meets Standards

c.2	If audio alerts are provided, are they also available in a visual manner?	Not Applicable
c.3	If multimedia products are provided are they captioned?	Not Applicable
(d)	Where audio information is important for the use of a product or service, 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.	
d.1	Are all features of the product or service available to hard of hearing users?	Meets Standards
d.2	Can a default audio output be set to various levels and is it user selectable?	Not Applicable
d.3	If audio alerts are provided, are they also available in a visual manner?	Not Applicable
d.4 e.	If multimedia products are provided are they captioned? 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
e.1	Are all features of the product or service available to users that do not require user speech?	Meets Standards
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.	Meets Standards

f.1	Are all features of the product or service available to users that do not require fine motor control or simultaneous actions and that is operable with limited reach and strength?	Meets Standards
f.2	Are all features of the product or service available to users of voice recognition technology?	Not Applicable
f.3	Are all features of the product or service available to users of pointer technology?	Meets Standards
f.4	Are all features of the product or service available to users of eye tracker technology?	Does Not Meet Standards