VMware Accessibility Conformance Report

VPAT® **Version 2.2**

Name of Product/Version: VMware NSX-T Data Center 2.3

Product Description: VMware NSX-T Data Center is the network virtualization platform for the Software-Defined Data Center, delivering networking and security entirely in software, abstracted from the underlying physical infrastructure. For more information, see the VMware product documentation at https://docs.vmware.com.

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Notes:

Evaluation Methods Used: Microsoft Edge v41, Narrator in Win10, Chrome v70, ChromeVox v53, and other accessibility tools carry on by Windows 10.

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0, at http://www.w3.org/TR/2008/REC-WCAG20-20081211/	Level A (Yes) Level AA (Yes) Level AAA (No)
Revised Section 508 standards as published by the U.S. Access Board in the Federal Register on January 18, 2017 Corrections to the ICT Final Rule as published by the US Access Board in the Federal Register on January 22, 2018	(Yes)
EN 301 549 Accessibility requirements suitable for public procurement of ICT products and services in Europe, - V1.1.2 (2015-04) at http://mandate376.standards.eu/standard	(Yes)

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- **Not Applicable**: The criterion is not relevant to the product.
- **Not Evaluated**: The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

WCAG 2.0 Report

Tables 1 and 2 also document conformance with:

- EN 301 549: Chapter 9 - Web, Chapter 10 - Non-Web documents, Section 11.2.1- Non-Web Software (excluding closed functionality), and Section 11.2.2 - Non-Web Software (closed functionality).
- Revised Section 508: Chapter 5 – 501.1 Scope, 504.2 Content Creation or Editing, and Chapter 6 – 602.3 Electronic Support Documentation.

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the [WCAG 2.0 Conformance Requirements](#).

Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A) Also applies to: EN 301 549 Criteria • 9.2.1 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	Most non-text Content could be read with descriptions properly. But there are some images and buttons in NSX-T have no label or read with nothing.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A) Also applies to: EN 301 549 Criteria • 9.2.2 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Not Applicable	The product has no multimedia.
1.2.2 Captions (Prerecorded) (Level A) Also applies to: EN 301 549 Criteria • 9.2.3 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Not Applicable	The product has no multimedia.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A) Also applies to: EN 301 549 Criteria • 9.2.4 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Not Applicable	The product has no multimedia.
1.3.1 Info and Relationships (Level A) Also applies to: EN 301 549 Criteria • 9.2.7 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	The row/column header info of some table's contents could not be read properly.
1.3.2 Meaningful Sequence (Level A) Also applies to: EN 301 549 Criteria • 9.2.8 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software)	Supports	

Criteria	Conformance Level	Remarks and Explanations
• 602.3 (Support Docs)		
1.3.3 Sensory Characteristics (Level A) Also applies to: EN 301 549 Criteria • 9.2.9 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	Instructions provided for understanding and operating content do not rely solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound. Almost all contents in NSX-T support this criteria exception some icons convey info only with orientation, such as Sort button in table.
1.4.1 Use of Color (Level A) Also applies to: EN 301 549 Criteria • 9.2.10 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	Color is not used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. Some elements, such as status info on Dashboard page, these circle image, they are conveyed status info with color only, nothing else were read by screen reader when focus on these elements.
1.4.2 Audio Control (Level A) Also applies to: EN 301 549 Criteria • 9.2.11 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Not Applicable	There is no Audio content in NSX-T
2.1.1 Keyboard (Level A) Also applies to: EN 301 549 Criteria • 9.2.15 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	A few elements could not be reached by keyboard. Such as elements on some warning or error message page.
2.1.2 No Keyboard Trap (Level A) Also applies to: EN 301 549 Criteria • 9.2.16 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	If keyboard focus can be moved to a component of the page using a keyboard interface, then focus can be moved away from that component using only a keyboard interface, and, if it requires more than unmodified arrow or tab keys or other standard exit methods, the user is advised of the method for moving focus away. A very few elements in NSX-T have this problem. Such as some drop down list.
2.2.1 Timing Adjustable (Level A) Also applies to:	Not Applicable	

Criteria	Conformance Level	Remarks and Explanations
EN 301 549 Criteria • 9.2.17 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)		
2.2.2 Pause, Stop, Hide (Level A) Also applies to: EN 301 549 Criteria • 9.2.18 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Does not Support	Auto-updating: For any auto-updating information that (1) starts automatically and (2) is presented in parallel with other content, there is a mechanism for the user to pause, stop, or hide it or to control the frequency of the update unless the autoupdating is part of an activity where it is essential. In NSX-T, the auto-refresh content could not be stopped or paused.
2.3.1 Three Flashes or Below Threshold (Level A) Also applies to: EN 301 549 Criteria • 9.2.19 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
2.4.1 Bypass Blocks (Level A) Also applies to: EN 301 549 Criteria • 9.2.20 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) – Does not apply to non-web software • 602.3 (Support Docs) – Does not apply to non-web docs	Supports	
2.4.2 Page Titled (Level A) Also applies to: EN 301 549 Criteria • 9.2.21 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
2.4.3 Focus Order (Level A) Also applies to: EN 301 549 Criteria • 9.2.22 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	

Criteria	Conformance Level	Remarks and Explanations
2.4.4 Link Purpose (In Context) (Level A) Also applies to: EN 301 549 Criteria • 9.2.23 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	The purpose of each link can be determined from the link text alone or from the link text together with its programmatically determined link context, except where the purpose of the link would be ambiguous to users in general. In NSX-T, some image links have no label and descriptions to be read by screen reader.
3.1.1 Language of Page (Level A) Also applies to: EN 301 549 Criteria • 9.2.27 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
3.2.1 On Focus (Level A) Also applies to: EN 301 549 Criteria • 9.2.29 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
3.2.2 On Input (Level A) Also applies to: EN 301 549 Criteria • 9.2.30 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
3.3.1 Error Identification (Level A) Also applies to: EN 301 549 Criteria • 9.2.33 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
3.3.2 Labels or Instructions (Level A) Also applies to: EN 301 549 Criteria • 9.2.34 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	

Criteria	Conformance Level	Remarks and Explanations
4.1.1 Parsing (Level A) Also applies to: EN 301 549 Criteria • 9.2.37 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	In content implemented using markup languages, elements have complete start and end tags, elements are nested according to their specifications, elements do not contain duplicate attributes, and any IDs are unique, except where the specifications allow these features. In NSX-T, there are some elements has duplicate attributes that will be read by screen reader at least twice.
4.1.2 Name, Role, Value (Level A) Also applies to: EN 301 549 Criteria • 9.2.38 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA) Also applies to: EN 301 549 Criteria • 9.2.5 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Not Applicable	There is no live in NSX-T
1.2.5 Audio Description (Prerecorded) (Level AA) Also applies to: EN 301 549 Criteria • 9.2.6 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Not Applicable	There is no audio in NSX-T
1.4.3 Contrast (Minimum) (Level AA) Also applies to: EN 301 549 Criteria • 9.2.12 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	

Criteria	Conformance Level	Remarks and Explanations
1.4.4 Resize text (Level AA) Also applies to: EN 301 549 Criteria • 9.2.13 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	Except for captions and images of text, text can be resized without assistive technology up to 200 percent without loss of content or functionality. Some strings in table were truncated, such as strings in Switch page, and part of side bar could not be displayed after setting display to 200%
1.4.5 Images of Text (Level AA) Also applies to: EN 301 549 Criteria • 9.2.14 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Partially Supports	If the technologies being used can achieve the visual presentation, text is used to convey information rather than images of text except for the following: • Customizable: The image of text can be visually customized to the user's requirements; • Essential: A particular presentation of text is essential to the information being conveyed. In NSX-T, some status present by a circle image, they have relative text, but the text could not be displayed unless hover mouse on part of the circle and could not move focus on it. So, these texts could not be displayed by keyboard operation and could not be read by screen reader. For example: System -> Components page.
2.4.5 Multiple Ways (Level AA) Also applies to: EN 301 549 Criteria • 9.2.24 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) – Does not apply to non-web software • 602.3 (Support Docs) – Does not apply to non-web docs	Supports	
2.4.6 Headings and Labels (Level AA) Also applies to: EN 301 549 Criteria • 9.2.25 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
2.4.7 Focus Visible (Level AA) Also applies to: EN 301 549 Criteria	Supports	

Criteria	Conformance Level	Remarks and Explanations
• 9.2.26 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)		
3.1.2 Language of Parts (Level AA) Also applies to: EN 301 549 Criteria • 9.2.28 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
3.2.3 Consistent Navigation (Level AA) Also applies to: EN 301 549 Criteria • 9.2.31 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) – Does not apply to non-web software • 602.3 (Support Docs) – Does not apply to non-web docs	Supports	
3.2.4 Consistent Identification (Level AA) Also applies to: EN 301 549 Criteria • 9.2.32 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) – Does not apply to non-web software • 602.3 (Support Docs) – Does not apply to non-web docs	Supports	
3.3.3 Error Suggestion (Level AA) Also applies to: EN 301 549 Criteria • 9.2.35 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA) Also applies to: EN 301 549 Criteria • 9.2.36 (Web) • 12.2.4 (Support Docs) Revised Section 508 • 501 (Web)(Software) • 602.3 (Support Docs)	Supports	Supports

Revised Section 508 Report

Notes:

Chapter 3: Functional Performance Criteria (FPC)

Notes:

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Partially Supports with AT (Assistive Technology)	Where a visual mode of operation is provided, ICT shall provide at least one mode of operation that does not require user vision. The product does not fully support users without vision, please see "W3C WCAG 2.0 Level A and AA for Web Application" table for more details.
302.2 With Limited Vision	Supports	
302.3 Without Perception of Color	Partially Supports	Where a visual mode of operation is provided, ICT shall provide at least one visual mode of operation that does not require user perception of color. The product does not fully support users without vision, please see "W3C WCAG 2.0 Level A and AA for Web Application" table for more details.
302.4 Without Hearing	Supports	
302.5 With Limited Hearing	Supports	
302.6 Without Speech	Supports	
302.7 With Limited Manipulation	Partially Supports with AT (Assistive Technology)	Depends on AT provided by Browser and OS
302.8 With Limited Reach and Strength	Partially Supports with AT (Assistive Technology)	Depends on AT provided by Browser and OS
302.9 With Limited Language, Cognitive, and Learning Abilities	Partially Supports with AT (Assistive Technology)	Depends on AT provided by Browser and OS

Chapter 5: Software

Notes:

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	See information in WCAG section
502 Interoperability with Assistive Technology		
502.2.1 User Control of Accessibility Features	Not Applicable	NSX-T is Web based platform. So, suitable for 501.
502.2.2 No Disruption of Accessibility Features	Not Applicable	
502.3 Accessibility Services		
502.3.1 Object Information	Not Applicable	
502.3.2 Modification of Object Information	Not Applicable	
502.3.3 Row, Column, and Headers	Not Applicable	
502.3.4 Values	Not Applicable	
502.3.5 Modification of Values	Not Applicable	
502.3.6 Label Relationships	Not Applicable	
502.3.7 Hierarchical Relationships	Not Applicable	
502.3.8 Text	Not Applicable	
502.3.9 Modification of Text	Not Applicable	
502.3.10 List of Actions	Not Applicable	
502.3.11 Actions on Objects	Not Applicable	
502.3.12 Focus Cursor	Not Applicable	
502.3.13 Modification of Focus Cursor	Not Applicable	
502.3.14 Event Notification	Not Applicable	
502.4 Platform Accessibility Features	Not Applicable	
503 Applications		
503.2 User Preferences	Not Applicable	
503.3 Alternative User Interfaces	Not Applicable	
503.4 User Controls for Captions and Audio Description		
503.4.1 Caption Controls	Not Applicable	
503.4.2 Audio Description Controls	Not Applicable	
504 Authoring Tools		
504.2 Content Creation or Editing (if not authoring tool, enter "not applicable")	See WCAG 2.0 section	See information in WCAG section
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion	Not Applicable	
504.2.2 PDF Export	Not Applicable	
504.3 Prompts	Not Applicable	
504.4 Templates	Not Applicable	

Chapter 6: Support Documentation and Services

Notes:

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope		
602 Support Documentation		
602.2 Accessibility and Compatibility Features	Does not Support	Documentation shall list and explain how to use the accessibility and compatibility features required by Chapters 4 and 5. Documentation shall include accessibility features that are builtin and accessibility features that provide compatibility with assistive technology. NSX-T has no documents about Accessibility and Compatibility Features
602.3 Electronic Support Documentation	See [WCAG 2.0](#) section	See information in WCAG section
602.4 Alternate Formats for Non-Electronic Support Documentation	Supports	Production Documents could be reach by active Help link.
603 Support Services	Heading cell – no response required	Heading cell – no response required
603.2 Information on Accessibility and Compatibility Features	Does not Supports	ICT support services shall include information on the accessibility and compatibility features required by 602.2. NSX-T has no information on accessibility and compatibility features.
603.3 Accommodation of Communication Needs	Supports	Support is provided through: https://www.vmware.com/support.html