Red Hat Accessibility Conformance Report

Based[1] on VPAT ® Version 2.4

Name of Product/Version:

Red Hat Enterprise Linux (RHEL) v9.1 GA – Gnome Desktop Environment

Report Date:

January 31, 2023

Product Description:

Red Hat® Enterprise Linux® (RHEL) is the world's leading enterprise Linux platform.* It's an open source operating system (OS) and a foundation for enterprise development, production, on-promises, cloud, data center, and other environments. As an operating system, RHEL is primarily intended to provide a system to interact with and manage compute, storage, and networking resources of various types. Interaction is typically via services and applications provided with the operating system; core and commonly used variants are often considered "core" and provided by a vendor packaged distribution, while specialized and less commonly used variants may be added via extensions, overlays, and other means.

RHEL is a complex product and for this reason, Red Hat has elected to provide separate and independent accessibility assessments for this product's primary user interface focused subcomponents. This report provides an accessibility assessment of Red Hat Enterprise Linux's primary graphical user interface, commonly known as the GNOME desktop environment. Red Hat also provides for this operating system accessibility assessments and reports for other important components in its the RHEL distribution including:

- RHEL 9.1 Gnome Desktop Environment
- RHEL 9.1 Cockpit Web Console
- RHEL 9.1 Anaconda Installer
- RHEL 9.1 Login Screen
- RHEL 9.1 CLI and application terminal
- RHEL 9.1 Core desktop applications

These additional reports when completed may be found on Red Hat's customer service portal (CSP) website. While each report's target of evaluation is Red Hat® Enterprise Linux® (RHEL), the precise timing and applicable version of each varies and each report may assess different minor versions of RHEL. Reviewers should carefully note the applicable product, sub-component(s), and versions for each report.

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[1] "Voluntary Product Accessibility Template" and "VPAT" are registered service marks of the Information Technology Industry Council (ITI)

This report applies to all products derivative of and in the Red Hat Enterprise Linux v9 product family including, but not limited to: Red Hat Enterprise Linux for Servers, Red Hat Enterprise Linux for HPC Head Node, Red Hat Enterprise Linux for HPC Compute Node, Red Hat Enterprise Linux for Workstation.

Contact Information:

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Notes:

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Evaluation Methods Used:

Testing is based on general product knowledge.

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	Level A (Yes) Level AA (Yes) Level AAA (Yes)
Revised Section 508 standards published January 18, 2017 and corrected January 22, 2018	(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:
- Chapter 5 – 501.1 Scope, 504.2 Content Creation or Editing
- 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: RHEL 9.1 Gnome Desktop Environment is not web software or authoring tool and and evaluation against these is not applicable; these entries are omitted from this report.

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	Program functions can be accessed via the Universal Access menu and keyboard shortcuts. Typing Assist (AccessX) provides access to accessibility features using the keyboard.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
1.2.2 Captions (Prerecorded) (Level A) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.3.1 Info and Relationships (Level A) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	

1.3.2 Meaningful Sequence (Level A)
Also applies to:
Revised Section 508
    ● 501 (Web)(Software)
    ● 504.2 (Authoring Tool)
    ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

1.3.3 Sensory Characteristics (Level A)
Also applies to:
Revised Section 508
    ● 501 (Web)(Software)
    ● 504.2 (Authoring Tool)
    ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Partially Supports
		Gnome toggle switches rely only on color and position to indicate state.

1.4.1 Use of Color (Level A)
Also applies to:
Revised Section 508
    ● 501 (Web)(Software)
    ● 504.2 (Authoring Tool)
    ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Partially Supports
		Gnome toggle switches rely only on color and position to indicate state.

1.4.2 Audio Control (Level A)
Also applies to:
Revised Section 508
    ● 501 (Web)(Software)
    ● 504.2 (Authoring Tool)
    ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Not applicable	

2.1.1 Keyboard (Level A)
Also applies to:
Revised Section 508
    ● 501 (Web)(Software)
    ● 504.2 (Authoring Tool)
    ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Partially Supports
		Gnome control panel does not allow all settings to be reached.

2.1.2 No Keyboard Trap (Level A)
Also applies to:
Revised Section 508
    ● 501 (Web)(Software)
    ● 504.2 (Authoring Tool)
    ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

2.2.1 Timing Adjustable (Level A) Also applies to:	Electronic Docs: Supports Software: Supports	

Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)		

2.2.2 Pause, Stop, Hide (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

2.3.1 Three Flashes or Below Threshold (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

2.4.1 Bypass Blocks (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software) – Does not apply to non-web software
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs) – Does not apply to non-web docs
	Electronic Docs: Supports
	Software: Supports	

2.4.2 Page Titled (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

2.4.3 Focus Order (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

2.4.4 Link Purpose (In Context) (Level A)
 	
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

3.1.1 Language of Page (Level A)
 	
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

3.2.1 On Focus (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

3.2.2 On Input (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

3.3.1 Error Identification (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports	

3.3.2 Labels or Instructions (Level A)
Also applies to:
Revised Section 508
   ● 501 (Web)(Software)
   ● 504.2 (Authoring Tool)
   ● 602.3 (Support Docs)
	Electronic Docs: Supports
	Software: Supports
		Dialogs and forms provide hints and descriptions of the required data formats that must be entered.

4.1.1 Parsing (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	For the portions of the GNOME interface that are displayed using markup language, parsing is properly implemented in the GUI. Other dialog boxes may not produce the proper contextual information since they are not using a markup language.
4.1.2 Name, Role, Value (Level A) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	

Table 2: Success Criteria, Level AA

Notes: RHEL 9.1 Gnome Desktop Environment is not web software or authoring tool and and evaluation against these is not applicable; these entries are omitted from this report.

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Not applicable	
1.2.5 Audio Description (Prerecorded) (Level AA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
1.4.3 Contrast (Minimum) (Level AA) Also applies to: Revised Section 508 • 501 (Web)(Software)	Electronic Docs: Supports Software: Supports	

● 504.2 (Authoring Tool) ● 602.3 (Support Docs)		
1.4.4 Resize text (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	Text can be resized without assistive technology up to 200 percent without loss of content and functionality.
1.4.5 Images of Text (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
2.4.5 Multiple Ways (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) – Does not apply to non-web software ● 504.2 (Authoring Tool) ● 602.3 (Support Docs) – Does not apply to non-web docs	Electronic Docs: Supports Software: Not Applicable	
2.4.6 Headings and Labels (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	When headings and labels exist, they describe a topic or purpose.
2.4.7 Focus Visible (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
3.1.2 Language of Parts (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software)	Electronic Docs: Supports Software: Does not Support	Gnome does not support determination of human languages per text parts. Only a system-wide language setting is available.

● 504.2 (Authoring Tool) ● 602.3 (Support Docs)		
3.2.3 Consistent Navigation (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) – Does not apply to non-web software ● 504.2 (Authoring Tool) ● 602.3 (Support Docs) – Does not apply to non-web docs	Electronic Docs: Supports Software: Supports	
3.2.4 Consistent Identification (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) – Does not apply to non-web software ● 504.2 (Authoring Tool) ● 602.3 (Support Docs) – Does not apply to non-web docs	Electronic Docs: Supports Software: Partially Supports	
3.3.3 Error Suggestion (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Partially Supports	Input errors are usually automatically detected, if not, they are validated after submission.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	The product does not cause legal commitments or financial transactions for the user to occur or submit user test responses. Users cannot modify or delete user controllable data in data storage systems without confirming the changes and in most cases are reversible.

Table 3: Success Criteria, Level AAA

Notes: RHEL 9.1 Gnome Desktop Environment is not web software or authoring tool and and evaluation against these is not applicable; these entries are omitted from this report.

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.2.7 Extended Audio Description (Prerecorded) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.2.8 Media Alternative (Prerecorded) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.2.9 Audio-only (Live) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.3.6 Identify Purpose (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	

1.4.6 Contrast (Enhanced) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) – Does not apply to non-web software ● 504.2 (Authoring Tool) ● 602.3 (Support Docs) – Does not apply to non-web docs	Electronic Docs: Supports Software: Suppors	
1.4.7 Low or No Background Audio (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.4.8 Visual Presentation (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
1.4.9 Images of Text (No Exception) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
2.1.3 Keyboard (No Exception) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) – Does not apply to non-web software ● 504.2 (Authoring Tool) ● 602.3 (Support Docs) – Does not apply to non-web docs	Electronic Docs: Supports Software: Does not Support	See WCAG 2.0 : 2.1.1
2.2.3 No Timing (Level AAA)		Certain operations including logouts,

Also applies to: Revised Section 508 ● 501 (Web)(Software) – Does not apply to non-web software ● 504.2 (Authoring Tool) ● 602.3 (Support Docs) – Does not apply to non-web docs	Electronic Docs: Supports Software: Partially Supports	shutdowns, screen property changes are subject to non-adjustable timeouts.
2.2.4 Interruptions (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
2.2.5 Re-authenticating (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Partially Supports	Gnome user data is preserved across sessions, but desktop environment and state is not.
2.3.2 Three Flashes (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
2.4.8 Location (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
2.4.9 Link Purpose (Link Only) (Level AAA) Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
2.4.10 Section Headings (Level AAA)		

Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Not Applicable	
3.1.3 Unusual Words (Level AAA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
3.1.4 Abbreviations (Level AAA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Partially Supports	
3.1.5 Reading Level (Level AAA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
3.1.6 Pronunciation (Level AAA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Does not Support	Gnome does not provide facilities for resolving ambiguous pronunciations
3.2.5 Change on Request (Level AAA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Supports	
3.3.5 Help (Level AAA) Also applies to: Revised Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Electronic Docs: Supports Software: Does not support	Gnome provides help via gnome-help but this is not generally context sensitive to embedded text or input fields
3.3.6 Error Prevention (All) (Level AAA)	Electronic Docs: Supports	Certain operations allow review,

Also applies to: Revised Section 508 ● 501 (Web)(Software) ● 504.2 (Authoring Tool) ● 602.3 (Support Docs)	Software: Partially Supports	confirmation, or reversibility of user actions but this is not available for all user input.

Revised Section 508 Report

Notes:

Chapter 3: Functional Performance Criteria (FPC)

Notes:

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Supports	
302.2 With Limited Vision	Supports	
302.3 Without Perception of Color	Supports	
302.4 Without Hearing	Supports	
302.5 With Limited Hearing	Supports	
302.6 Without Speech	Not Applicable	
302.7 With Limited Manipulation	Supports	
302.8 With Limited Reach and Strength	Supports	
302.9 With Limited Language, Cognitive, and Learning Abilities	Supports	

Chapter 4: Hardware

Notes: Not applicable; this table is removed.

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 2.0 section
502 Interoperability with Assistive Technology	Heading cell – no response required	Heading cell – no response required
502.2.1 User Control of Accessibility Features	Supports	
502.2.2 No Disruption of Accessibility Features	Supports	
502.3 Accessibility Services	Heading cell – no response required	Heading cell – no response required
502.3.1 Object Information	Supports	
502.3.2 Modification of Object Information	Supports	
502.3.3 Row, Column, and Headers	Supports	
502.3.4 Values	Not Applicable	
502.3.5 Modification of Values	Supports	
502.3.6 Label Relationships	Supports	
502.3.7 Hierarchical Relationships	Supports	
502.3.8 Text	Supports	
502.3.9 Modification of Text	Supports	
502.3.10 List of Actions	Supports	
502.3.11 Actions on Objects	Supports	
502.3.12 Focus Cursor	Supports	
502.3.13 Modification of Focus Cursor	Supports	
502.3.14 Event Notification	Supports	
502.4 Platform Accessibility Features	Supports	
503 Applications	Heading cell – no response required	Heading cell – no response required
503.2 User Preferences	Supports	

503.3 Alternative User Interfaces	Supports	
503.4 User Controls for Captions and Audio Description	Heading cell – no response required	Heading cell – no response required
503.4.1 Caption Controls	Not applicable	
503.4.2 Audio Description Controls	Not applicable	
504 Authoring Tools	Heading cell – no response required	Heading cell – no response required
504.2 Content Creation or Editing (if not authoring tool, enter "not applicable")	See WCAG 2.0 section	See information in WCAG 2.0 section
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion	Not applicable	
504.2.2 PDF Export	Supports	
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	Heading cell – no response required	Heading cell – no response required
602 Support Documentation	Heading cell – no response required	Heading cell – no response required
602.2 Accessibility and Compatibility Features	Supports	
602.3 Electronic Support Documentation	See WCAG 2.0 section	See information in WCAG 2.0 section
602.4 Alternate Formats for Non-Electronic Support Documentation	Supports	

603 Support Services	Heading cell – no response required	Heading cell – no response required
603.2 Information on Accessibility and Compatibility Features	Supports	
603.3 Accommodation of Communication Needs	Supports	

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