



Pulse Policy Secure

Supported Platforms Guide

PPS Release 9.1R5
Build- 2893

For more information, go to www.pulsesecure.net/products

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Revision History

Table 1 lists the revision history for this document.

Table 1: Revision History

Revision	Description
April 6, 2020	PPS Release Notes 9.1R5 updates.
January 2020	PPS Release Note 9.1R4 updates.
September 2019	PPS Release Notes 9.1R3 updates
July 2019	PPS Release Notes 9.1R2 updates
May 2019	Added Juniper switch model as qualified for Policy Enforcement using SNMP (ACL based).
April 2019	PPS Release Notes 9.1R1 updates.

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Introduction

This document describes the client environments and IT infrastructure that are compatible with this release.

In this document, we identify compatibility testing for this release with the following terminology:

- Qualified (Q) –Indicates that the item was systematically tested by QA for this release.
- Compatible (C)–Indicates that the item was not tested for this release, but based on testing done for previous releases, we support it.

Pulse Secure supports all items listed as qualified or compatible.

Hardware

You can install and use Release software on the following platforms.

- PSA300
- PSA3000
- PSA5000
- PSA7000f
- PSA7000c
- Virtual Appliances (PSA-V) on ESXi, KVM, Hyper-V, Microsoft Azure, Amazon Web Services (AWS).

Administrator Web User Interface

Table 2 lists supported platforms for the administrator user interface.

Table 2: Admin User Interface

Operating System	Browsers/Java	Qualified	Compatible
Windows			
<ul style="list-style-type: none"> • Windows 10, Redstone 5 (1909), 64-bit • Windows 8.1 Enterprise, 64-bit 	<ul style="list-style-type: none"> • Firefox 68 ESR • Google Chrome 79 	Q	
<ul style="list-style-type: none"> • Windows 10, Redstone 4, 64-bit • Windows 10, Redstone 3 (1709) Enterprise, 64-bit • Windows 10, Redstone 2 (1703) Enterprise, 64-bit • Windows 8.1 Enterprise, 64-bit 	<ul style="list-style-type: none"> • Internet Explorer 11/Edge Browser • Firefox 52 ESR • Microsoft Chromium 		C
<ul style="list-style-type: none"> • Windows 8.1 Professional, 64-bit • Windows 8 basic edition / Enterprise / Professional, 32-bit or 64-bit • Windows Vista Enterprise / Ultimate / Business / Home-Basic / Home-Premium, 32-bit or 64-bit 	<ul style="list-style-type: none"> • Internet Explorer 7.0 • Google Chrome • Firefox 3.0 and later 		C
Mac			
<ul style="list-style-type: none"> • Mac OSX 10.15.3, 64-bit • Mac OSX 10.14.6, 64-bit 	<ul style="list-style-type: none"> • Safari 13.0.5 • Chrome 75 	Q	
<ul style="list-style-type: none"> • Mac OSX 10.15.2, 64 bit • Mac OS X 10.14.5, 64-bit • Mac OS X 10.13, 64-bit • Mac OS X 10.12, 64-bit • Mac OS X 10.11, 64-bit 	<ul style="list-style-type: none"> • Safari 12 • Safari 11.1 • Safari 11.0 • Safari 10.0 • Safari 9.0 		C

- Mac OS X 10.11, 64-bit
- Mac OS X 10.10, 64-bit
- Mac OS X 10.9, 64-bit
- Mac OS X 10.8, 64-bit
- Safari 8.0
- Safari 7.0
- Safari 5.1
- Microsoft Chromium

Pulse Secure Client Software

For a list of supported platforms for the Pulse Secure desktop client, please consult the Pulse Secure Desktop Client Supported Platforms Guide, which can be found [here](#).

Third-Party Wireless LAN Controller

Table 3 lists platform requirements for third-party wireless LAN Controller.

Table 3: Third-Party Wireless Controller

Platform	Environment	Qualified	Compatible
Cisco			
	<ul style="list-style-type: none"> • Cisco 2500 WLC [version 8.0.140.0] AIR-CAP702I [version is 15.2(4)JB6] • Cisco catalyst 3850 [Cisco IOS Software, IOS-XE Software, • Catalyst L3 Switch Software (CAT3K_CAA-UNIVERSALK9-M), Version 03.07.00E] AIR-CAP702I (version is 15.3(3)JNB) 	Q	
	<ul style="list-style-type: none"> • Cisco 5500 Series WLC • Cisco 7500 Series WLC • Cisco 8500 Series WLC 		C
Aruba			
	<ul style="list-style-type: none"> • Aruba 650 WLC [Aruba OS 6.1.3.6], AP-105 [ArubaOS Version 6.1.3.6] • Aruba 3400 WLC [Aruba OS 6.4.4.6], AP-205 [ArubaOS Version 6.4.2.4] • Aruba Instant Access Point 205 AP-205 [6.4.2.3-4.1.1.3] 	Q	
	<ul style="list-style-type: none"> • Aruba 600 Series WLC • Aruba 3200 Series WLC • Aruba 3600 Series WLC • Aruba Instant Access Point 200 Series 		C
Ruckus			
	<ul style="list-style-type: none"> • Zone Director 1200 Series WLC [9.9.0.0.216] • Virtual SmartZone – High Scale [3.2.0.0.790] • Access Points (Zone flex R500 & Zone flex R310) 	Q	
Cisco Meraki	<ul style="list-style-type: none"> • Model: MR 42 • Firmware version: MR 25.13 	Q	
Huawei	<ul style="list-style-type: none"> • V200R011C10SPC500 	Q	
Juniper Mist	<ul style="list-style-type: none"> • AP Model: AP41 • Version: 0.5.17122 	Q	

Third-Party 802.1X Supplicants

Table 4 lists platform requirements for third-party 802.1X supplicants.

Table 4: Third-Party 802.1X Supplicants

Platform	Environment	Qualified	Compatible
Windows			
	Windows 10, Redstone 5 (1909), 64-bit • Windows 8.1 Enterprise, 64-bit	Q	
	• Windows 10, Redstone 3 (1709) Enterprise, 64-bit • Windows 10, Redstone 2 (1703) Enterprise, 64-bit • Windows 10, Redstone 1 (1607) Enterprise, 64-bit • Windows 8 basic edition / Professional / Enterprise, 32-bit or 64-bit • Windows Vista Ultimate / Business / Home-Basic / Home-Premium with SP 2, 32-bit or 64-bit		C
Mac			
	• Mac OS X 10.15.3, 64-bit	Q	
	• Mac OS X 10.15.2, 64-bit • Mac OS X 10.14, 64-bit • Mac OS X 10.13, 64-bit • Mac OS X 10.12, 64-bit		C
Google Android			
	Android 9.0	Q	
	Android 8.1, 8.0		C
Apple iOS			
	iOS 13.1.2	Q	
	iOS 12.1, 11.2.6, 10, 9.0, 8.0		C

Note: 802.1X connection from Pulse Desktop Client (installed on virtual endpoints hosted in Virtual platforms like VM, Hyper-V, Citrix) is not qualified.

Agentless Access (Browsers)

Table 5 lists desktop platform requirements for the agentless access using browsers.

Table 5: Agentless Access (Browsers)

Operating System	Browsers/Java	Qualified	Compatible
Windows			
• Windows 10, Redstone 5 (1909), 64-bit • Windows 8.1 Enterprise, 64-bit	• Firefox 68 ESR • Google Chrome 80 • Oracle JRE 8	Q	
• Windows 10, Redstone 3 (1709) Enterprise, 64-bit • Windows 10, Redstone 2 (1703) Enterprise, 64-bit	• Internet Explorer 11/Edge Browser • Firefox 60 ESR • Google Chrome • Oracle JRE 8		C

Operating System	Browsers/Java	Qualified	Compatible
<ul style="list-style-type: none"> Windows 10, Redstone 1 (1607) Enterprise, 64-bit 	<ul style="list-style-type: none"> Internet Explorer 11/Edge Browser Firefox 60 ESR Firefox 52 ESR Google Chrome Oracle JRE 8 		C
<ul style="list-style-type: none"> Windows 8.1 Professional, 64-bit Windows 8 basic edition / Enterprise / Professional, 32-bit or 64-bit Windows Vista Ultimate / Business / Home-Basic / Home-Premium with SP 2, 32-bit, or 64-bit platforms 	<ul style="list-style-type: none"> Internet Explorer 11 Internet Explorer 10 Internet Explorer 9.0 Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0 and later Google Chrome Oracle JRE 6 and later 		C
Mac			
<ul style="list-style-type: none"> Mac OSX 10.15.3, 64-bit Mac OS X 10.14.6, 64-bit 	<ul style="list-style-type: none"> Safari 13.0.4 Chrome 80 	Q	
<ul style="list-style-type: none"> Mac OS X 10.13, 64-bit Mac OS X 10.12, 64-bit 	<ul style="list-style-type: none"> Safari 11.1.1 Google Chrome 		C
Linux			
<ul style="list-style-type: none"> Ubuntu 18.04 Ubuntu 14.x openSUSE 12.1 	<ul style="list-style-type: none"> Firefox 52 ESR Oracle JRE 8 		C
<ul style="list-style-type: none"> openSUSE 10.x and 11.x Ubuntu 9.10, 10.x, and 11.x Red Hat Enterprise Linux 5 	<ul style="list-style-type: none"> Firefox 3.0 and later Google Chrome Oracle JRE 6 and later 		C
Solaris			
Solaris 10, 32-bit	Firefox 24 ESR		C
Solaris 10, 32-bit	Mozilla 2.0 and later		C

Table 6 lists requirements for the smart mobile devices that can gain agentless access to the network using the Web browsers indicated.

Table 6: Smart Mobile Devices for Layer 3 Access

Device/Operating System	Browsers/Java	Qualified	Compatible
Apple 13.1.2	Safari	Q	
Apple iOS 12.1.1, 11.4.1	Safari		C
Apple iOS 12	Safari		C
Google Android			
Android 9.0	Android native browser	Q	
Android 8.0			C

Android smart phones with Android 4.4 and later	Android native browser	C
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Agentless Access (Java-Based)

Table 7 lists platform requirements for the agentless access that is Java-based.

Table 7: Agentless Access (Java-Based)

Operating System	Browsers/Java	Qualified	Compatible
Linux			
<ul style="list-style-type: none"> openSUSE 12.1, 32-bit Ubuntu 18.x, 32-bit Ubuntu 14.x, 32-bit 	<ul style="list-style-type: none"> Firefox ESR Oracle JRE 8 Iced Tea 		C
<ul style="list-style-type: none"> openSUSE 11.x and 10.x Ubuntu 11.x, 10.x, and 9.10 Red Hat Enterprise Linux 5 	<ul style="list-style-type: none"> Firefox 3.0 and later Oracle JRE 6 and later 		C
Solaris OS 12	Firefox ESR		C

Host Checker

Table 8 lists the HC support on different platforms

Table 8: Host Checker

Operating System	Browsers/Security Products	Qualified	Compatible
Windows			
Windows 10, Redstone 5 (1909), 64-bit	Firefox 68 ESR Google Chrome 80 Oracle JRE 8 Internet Explorer 11, Edge	Q	
Windows-10 Redstone 4 OS Build 1803 Version 10.0.17134, 64-bit	Google Chrome 74, Firefox 60 ESR, Oracle JRE 8 update 144		C
Windows 10 Enterprise/Pro/Home	Internet Explorer 11, Edge Google Chrome 74 Firefox 60 ESR, Oracle JRE 8		C
Windows 8.1 Update/ Professional / Enterprise, 64-bit	Internet Explorer 11, Google Chrome 80 and Firefox 68 ESR, Oracle JRE 8	Q	
Windows 8.1 Update/ Professional / Enterprise, 32-bit	Internet Explorer 11, Google Chrome 74 and Firefox 60 ESR, Oracle JRE 8		C
Windows 8 Basic edition / Professional/ Enterprise, 32-bit & 64-bit	Internet Explorer 10, Google Chrome 74 and Firefox 60 ESR, Oracle JRE 7 and later		C
Mac OSX			
Mac OSX 10.15.3, 64-bit Mac OS X 10.14.6, 64-bit	Safari 13.0.4	Q	
Mac OS Mojave Version 10.14.5	Safari 12.1, Google Chrome 75		C
Mac OS High Sierra Version 10.13	Safari 11.0, Google Chrome 75		C
Linux			
openSUSE 12.1	Firefox 38 ESR Firefox 52 ESR, 32-bit		C
openSUSE 11.x, 10.x	Oracle JRE 8		C
Ubuntu 16.04 LTS	Firefox 52, ESR, 64-bit		C
Ubuntu 15.04	Firefox 52, ESR, 64-bit		C

Ubuntu 14.04 LTS	Firefox 52, ESR, 64-bit	C
Ubuntu 12.04 LTS, 11.x, 10.x, 9.10	Oracle JRE 7 and later	C
RHEL 5,7	Firefox 52 ESR, 32-bit, 64-bit	C
Fedora 23 (32 bit, 64 bit)	Firefox 52 ESR 32-bit, 64-bit	C
CentOS 6.4	Firefox 52, 32- bit, 64- bit	C

Platform Support for Device Onboarding

Table 9 lists platform requirements for device onboarding features that are qualified with this release.

Table 9: Device Onboarding Features

Operating System/Feature	Certificate	Wifi
iOS 13.1.2	Q	Q
iOS 12.1	C	C
*Android 9.0	Q	Q
*Android 8.0	C	C
Windows 10	Q	Q
Windows 8.1 Desktop	C	C
Mac OS X 10.14.6	Q	Q

*Enterprise onboarding is not working on Android devices. See the [Release Notes](#) for more details.

Platform Support for AAA

Table 10 lists platform requirements for third-party AAA servers that are compatible with this release.

Table 10: Third-Party AAA Servers

Third-Party AAA Server	Qualified	Compatible
Active Directory	<ul style="list-style-type: none"> Windows Server 2019 	<ul style="list-style-type: none"> Windows 2016 Windows 2012
LDAP using Active Directory	<ul style="list-style-type: none"> Windows Server 2019 	<ul style="list-style-type: none"> Windows 2016 Windows 2012
LDAP using Novell eDirectory		Novell Client for Windows 2000 / XP Version 4.91 SP2
LDAP using Sun ONE iPlanet Server		Sun ONE Directory Server 5.2
LDAP with Greatbay Endpoint Profiler		Beacon 4.2.0_42
LDAP (other standards-compliant servers)	OpenLDAP 2.3.27	Authentication and authorization based on user attributes or group membership
RADIUS	<ul style="list-style-type: none"> Steel-Belted Radius (SBR) 6.1 RSA Authentication Manager 6.1 Defender 5.2 Windows IAS 2008 	
RADIUS (other standards compliant servers)		C
ACE	<ul style="list-style-type: none"> RSA Authentication Manager 7.1 SP4 RSA Authentication Manager 6.1 RSA Authentication Manager 5.2 	

Third-Party AAA Server	Qualified	Compatible
Siteminder	<ul style="list-style-type: none"> CA Siteminder 12.0 SP3 CA Siteminder 6.0 SP4 CA Siteminder 5.5 	
Certificate	<ul style="list-style-type: none"> Windows Server 2008 R2 Certificate Services RSA Keon Certificate Manager 6.5.1 	
Certificate (other standards-compliant servers)		C
SQL	<ul style="list-style-type: none"> Oracle 11g Express Edition 	C
MSSQL	<ul style="list-style-type: none"> SQL Server 2019 	Q
MYSQL	<ul style="list-style-type: none"> MYSQL 8.0 	Q
*SAML 2.0,1.1	Okta, Ping One, ADFS, PCS	Q
*SAML 2.0,1.1	Ping Federate	C

*For information on the SAML SSO profiles, bindings, and protocols that are supported, see [here](#).

MDM Solutions

Table 11 lists the requirements for integration with mobile device management (MDM) vendors.

Table 11: MDM Vendors

Solution	Qualified	Compatible
AirWatch		
Cloud service	19.11.1.5	19.03.0.6
Appliance OS		C
Virtual appliance OS		C
MobileIron		
Cloud service	10.5.0.0.107R	10.1.0.2
Appliance OS		C
Virtual appliance OS		C
		C
Microsoft Intune		(with AD user names only)

802.1X Authenticators in Layer 2 Network Access Control Deployments

Table 12 lists the 802.1X authenticators that have been qualified with this release. 802.1X authenticators are Layer 2 Ethernet switches. In addition to the qualified platforms, other 802.1X standards-compliant Ethernet switches are compatible.

Table 12: 802.1X Authenticators

Platforms	Hardware Models	OS Version	Qualified	Compatible
EX Series	EX 8200	Junos OS 15.1R4, 17.0	Q	
	EX 6200			
	EX 4500			
	EX 4200			
Cisco Series	Cisco 2960	15.2(6) E2	Q	
	Cisco 3850	16.9.1		

	Cisco 3750	12.2(55) SE11	
	Cisco WLC 2500 Series	8.5.135.0	
	Meraki MR 42	MR 25.13	
Huawei	Huawei S5720	5.170	Q
HP Procurve	2920 series	WB.15.12.0015	Q
Aruba	Aruba3400	6.4.4.6	Q
Ruckus	Zone Director	9.9.0.0 build 216	
	SmartZone	3.5.1.0.296	Q
SRX Series	SRX 650	Junos 12.3X48-D30.7	
	SRX VM	Junos 15.1X49-D140.2	Q
	SRX 3400		
	SRX 1400		
SRX Series	SRX 240	Junos OS 12.1X46-	
	SRX 220	D35.1	C
	SRX 210		
	SRX 100		
	802.1X (other standards-compliant Ethernet switches)		C

Endpoint Security Assessment Plug-in (ESAP) Compatibility

The default version for ESAP is 3.4.8

Infranet Enforcers in Layer 3 Resource Policy Deployments

Table 13 lists Infranet Enforcers that have been qualified with this release. Infranet Enforcers are enforcement points in Layer 3 resource policy deployments. In addition to the qualified platforms, other Screen OS, SRX Series, and EX Series models are compatible, provided the firewall or switch model and software version supports integration with Pulse Policy Secure.

Table 13: Infranet Enforcers

Platform	Hardware Models	Software Versions
Checkpoint Firewall	Virtual Appliance	R80.20
		R80.10
Palo Alto Network	Virtual Appliance	9.1.1
SRX Series	<ul style="list-style-type: none"> • SRX 220 • SRX 650 	Junos OS 12.3X48-D30.7
		Junos OS 12.3X48-D70.3
*ScreenOS	• SSG550	ScreenOS 6.3.0R21
	• SSG20	
	• ISG-1000	
FortiGate Firewall	900D	V6.0.4 Build 0231

Admission/Identity Control

Table 14 lists the IDP devices that are supported.

Table 14: IDP Devices in Admission Control Deployments

Hardware Models	Software Versions
Fortinet Fortigate Firewall	Fortinet Firewall: v6.0.4 build0231 (GA)
	Fortinet Firewall: v6.0.2 build0163 (GA)
	Fortinet Firewall v5.6.2, build1486 (GA)
	Fortinet Firewall: v5.4.2, build1100 (GA)
Forti Authenticator	v6.0.0, build0010 (GA)
	v 5.5.0, build0366(GA)
	v5.2.1, build0161 (GA)
	v4.00-build0019-20151007-patch00
Forti Analyzer	v6.0.4-build0292 190109 (GA)
	v6.0.2-build0205 180813 (GA)
	v5.4.2-build1151 161213 (GA)
	v5.6.2-build1151 161213 (GA)
Palo Alto Networks Firewall	9.1.1
Juniper SDSN Solution	Junos SRX 15.1X49-D140.2
	Junos Space 18.3
Nozomi Network SCADAguardian Device	18.5.4-03291152_AF752
CheckPoint	R80.10
McAfee ePO	5.10.0

Behavioral Analytics

Table 15 lists the switch models that are supported.

Hardware Models	Software Versions
Cisco 3850	03.06.08E
Cisco 2960	15.2(6)E1

IF-MAP Compatibility

Table 16 lists the IF-MAP clients that are supported.

Table 16: IF-MAP clients

IF-MAP Client	Qualified	Compatible
Pulse Connect Secure	Q	
Pulse Policy Secure	Q	Older than 9.0R3

Policy Enforcement Using SNMP

Table 17: Switch List lists the switches which are qualified for Policy Enforcement using SNMP.

Table 17: Switch List

Platform	Hardware Models	Software Version	Qualified
VLAN/ACL Based			
Cisco	• 2960 Series	• 15.0.(2) EX5	
	• 3750 Series	• 12.2(55) ES8	Q
HP	• 2920 Series	• A3600-24	Q
HP 3Com	• A3600-24 Series	• Version 5.20.99, Release 2108P01	Q
Dell	• N3024	• 6.3.3.10	Q
Juniper	• EX4200	• 15.1R4.6	Q
Alcatel-Lucent Enterprise	• OS6450-24	• 6.7.2.191.R04 GA	Q
Arista	• 12.03	• 4.22.1FX-CLI	Q
Huawei	• S5720	• 5.170 (S5720 V200R011C10SPC500)	Q

Profiling using Network Infrastructure Device collector

Table 18: lists the devices which are qualified for device profiling using Network Infrastructure Device Collector.

Table 18: Device List

Platform	Hardware Models	Software Version	Qualified	Compatible
Cisco	2960 Series	15.2(2) E3	Q	
Cisco	Cisco ISR1K	16.09.02		
	Cisco IOS XE		Q	
HP	2920 Series	WB.15.12.0015	Q	
Juniper	EX 2200 Series	12.3R12.4	Q	
Foundry	FESX424 Series	07.2.02		C
Nortel	2526T Series	4.0.0.000		C
D-Link	DES-3226S	4.01-B21		C

Cisco WLC	2500 WLC	7.6.130.0	Q	
Aruba WLC	3400 WLC	6.4.2.4	Q	
Ruckus WLC	1200 WLC	9.9.0.0.216	Q	
Trapeze WLC	WLC-V	9.0.1.2.0		C
FortiGate	100D	5.4.2-1000	Q	
Palo Alto Networks Firewall	PA 3000	OS 7.0.1/OS 7.0.1 (VM)	Q	
Huawei	S5720		Q	
Viptela	NA	vEdge-1000 VM Viptela OS 18.4.4	Q	

Agentless Host Checker with Profiler

Table 19 lists supported Windows platforms and Security Products for Agentless Host checking with Profiler.

Note: Applicable with ESAP version 3.3.5 and greater.

Table 19: Agentless Host Checker with Profiler

Operating System	Security Products (Antivirus / Firewall / Antispyware)	Qualified	Compatible
Windows 8/64-bit	McAfee Total Protection 16.x	Q	
Windows 8/64-bit	Symantec Endpoint Protection 14.x		C
Windows 10/64-bit	Symantec Endpoint Protection 14.x	Q	
Windows 10/64-bit	McAfee Total Protection 16.x		C
Windows 8/32-bit	Symantec Endpoint Protection 14.x McAfee Total Protection 16.x		C
Windows 10/32-bit	Symantec Endpoint Protection 14.x McAfee Total Protection 16.x		C
Windows 8 and later/64-Bit	Windows Defender 4.x	Q	