



Pulse Policy Secure

Supported Platforms Guide

PPS 9.0R2
Build- 51511

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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 9.0R1 software on the following platforms.

- PSA300
- PSA3000
- PSA5000
- PSA7000f
- PSA7000c
- Virtual Appliances (VA-SPE/PSA-V) on ESXi, KVM and Hyper-V

Administrator Web User Interface

Table 1 lists supported platforms for the administrator user interface.

Table 1: Admin User Interface

Operating System	Browsers/Java	Qualified	Compatible
Windows			
<ul style="list-style-type: none"> Windows 10, Redstone 3 (1709) Enterprise, 64-bit Windows 10, Redstone 2 (1703) Enterprise, 64-bit Windows 8.1 Enterprise Windows 7 Enterprise, 64-bit 	<ul style="list-style-type: none"> Internet Explorer 11/Edge Browser Firefox 52 ESR Google Chrome 	X	
<ul style="list-style-type: none"> Windows 8.1 Professional Windows 8 basic edition / Enterprise / Professional, 32-bit or 64-bit Windows 7 Ultimate / Professional / Home Basic / Home Premium, 32-bit or 64-bit Windows 7 SP1 Enterprise, 32-bit Windows Vista Enterprise / 	<ul style="list-style-type: none"> Internet Explorer 11 Internet Explorer 9.0 Internet Explorer 8.0 Internet Explorer 7.0 Google Chrome Firefox 3.0 and later 		X
Mac			
<ul style="list-style-type: none"> 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 11.0 Safari 10.0 Safari 9.0 	X	
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Safari 8.0 Safari 7.0 Safari 5.1 		X

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 2: Third-Party Wireless Controller

Platform	Environment	Qualified	Compatible
Cisco			
	<ul style="list-style-type: none"> Cisco 2500 WLC [version 8.0.140.0] AIR-CAP7021 [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-CAP7021 (version is 15.3(3)JNB) 	X	
	<ul style="list-style-type: none"> Cisco 5500 Series WLC Cisco 7500 Series WLC Cisco 8500 Series WLC 		X
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] 	X	
	<ul style="list-style-type: none"> Aruba 600 Series WLC Aruba 3200 Series WLC Aruba 3600 Series WLC Aruba Instant Access Point 200 Series 		X
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] 	X	

Third-Party 802.1X Supplicants

Table 3 lists platform requirements for third-party 802.1X supplicants.

Table 3: Third-Party 802.1X Supplicants

Platform	Environment	Qualified	Compatible
Windows			
	<ul style="list-style-type: none"> 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 8.1 Enterprise, 64-bit Windows 7 SP1 Enterprise, 64-bit. 	X	
	<ul style="list-style-type: none"> Windows 8 basic edition / Professional / Enterprise, 32-bit or 64-bit Windows 7 Ultimate / Professional / Home Basic / Home Premium, 32-bit or 64-bit Windows 7 SP1 Enterprise, 32-bit Windows Vista Ultimate / Business / Home-Basic / Home-Premium with SP 2, 32-bit or 64-bit 		X
Mac			
	<ul style="list-style-type: none"> Mac OS X 10.13, 64-bit Mac OS X 10.12, 64-bit Mac OS X 10.11, 64-bit 	X	
	<ul style="list-style-type: none"> Mac OS X 10.10, 32-bit/64-bit Mac OS X 10.9, 64-bit Mac OS X 10.8, 64-bit Mac OS X 10.7.3, 32-bit, and 64-bit 		X
Google Android			
	Android 8.0	X	
	Android 7.0		X
	Android 6.0		X
Apple iOS			
	iOS 11.2.6	X	

iOS 9.0	X
iOS 8.0	X

Agentless Access (Browsers)

Table 4 lists desktop platform requirements for the agentless access using browsers.

Table 4: Agentless Access (Browsers)

Operating System	Browsers/Java	Qualified	Compatible
Windows			
<ul style="list-style-type: none"> Windows 10, Redstone 3 (1709) Enterprise, 64-bit Windows 10, Redstone 2 (1703) Enterprise, 64-bit Windows 8.1 Enterprise Windows 7 SP1 Enterprise, 64-bit 	<ul style="list-style-type: none"> Internet Explorer 11/Edge Browser Firefox 52 ESR Google Chrome Oracle JRE 8 	X	
	<ul style="list-style-type: none"> Internet Explorer 11/Edge Browser 		X
<ul style="list-style-type: none"> Windows 10, Redstone 1 (1607) Enterprise, 64-bit 	<ul style="list-style-type: none"> Firefox 52 ESR Google Chrome Oracle JRE 8 		
<ul style="list-style-type: none"> Windows 8.1 Professional Windows 8 basic edition / Enterprise / Professional, 32-bit or 64-bit Windows 7 Ultimate / Professional / Home Basic / Home Premium, 32-bit, or 64-bit platforms Windows 7 SP1 Enterprise, 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 		X
Mac			
<ul style="list-style-type: none"> Mac OSX 10.13, 64-bit Mac OS X 10.12, 64-bit 	<ul style="list-style-type: none"> Safari 11.0 Safari 10.0 	X	

Operating System	Browsers/Java	Qualified	Compatible
<ul style="list-style-type: none"> Mac OS X 10.11, 64-bit Mac OS X 10.10, 64-bit Mac OS X 10.9, 32-bit /64-bit Mac OS X 10.8, 64-bit Mac OS X 10.7.4, 32-bit or 64-bit 	<ul style="list-style-type: none"> Safari 9.0 Safari 8.0 Sun JRE 7 Safari 7.0 Sun JRE 7 Google Chrome 		X
Linux			
<ul style="list-style-type: none"> Ubuntu 14.x openSUSE 12.1 	<ul style="list-style-type: none"> Firefox 52 ESR Oracle JRE 8 	X	
<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 		X
Solaris			
Solaris 10, 32-bit	Firefox 24 ESR	X	
Solaris 10, 32-bit	Mozilla 2.0 and later		X

Table 5 lists requirements for the smart mobile devices that can gain agentless access to the network using the Web browsers indicated.

Table 5: Smart Mobile Devices for Layer 3 Access

Device/Operating System	Browsers/Java	Qualified	Compatible
Apple iOS 11.2.6	Safari browser	X	
Apple iOS 8.0	Safari browser	X	
Apple iOS 7.0 and later	Safari browser		X
Google Android			
Android 7.0	Android native browser	X	
Android smart phones with Android 4.4 and later	Android native browser		X

Agentless Access (Java-Based)

Table 6 lists platform requirements for the agentless access that is Java-based.

Table 6: Agentless Access (Java-Based)

Operating System	Browsers/Java	Qualified	Compatible
Linux			
<ul style="list-style-type: none"> openSUSE 12.1, 32-bit Ubuntu 14.x, 32-bit 	<ul style="list-style-type: none"> Firefox 52 ESR Oracle JRE 8 	X	
<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 		X
Windows	JRE: Java 8 update 144		X
MAC OS X 10.12	<ul style="list-style-type: none"> Safari version: 10.1.2 JRE: Java 8 update 121 		X
Solaris OS 12	Firefox 24 ESR		X

Platform Support for Device Onboarding

Table 7 lists platform requirements for device onboarding features that are qualified with this release.

Table 7: Device Onboarding Features

Operating System/Feature	VPN	Certificate	Wifi
iOS 11.2.6	X	X	X
Android 8.0	X	X	X
Android 7.0	X	X	X
Windows 8.1 Desktop		X	X
Windows 7		X	X

Mac OS X 10.13	X	X
Mac OS X 10.12, Safari 9.x	X	X

Platform Support for AAA

Table 8 lists platform requirements for third-party AAA servers that are compatible with this release.

Table 8: Third-Party AAA Servers

Third-Party AAA Server	Qualified	Compatible
Active Directory	<ul style="list-style-type: none"> Windows 2016 Windows 2012 R2 	<ul style="list-style-type: none"> Windows 2008 R2 Windows 2003
LDAP using Active Directory	<ul style="list-style-type: none"> Windows 2016 Windows 2012 R2 	<ul style="list-style-type: none"> Windows 2008 R2 Windows 2003
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)	<ul style="list-style-type: none"> 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)		X
ACE	<ul style="list-style-type: none"> RSA Authentication Manager 7.1 SP4 RSA Authentication Manager 6.1 RSA Authentication Manager 5.2 	
Siteminder	<ul style="list-style-type: none"> CA Siteminder 12.0 SP3 CA Siteminder 6.0 SP4 CA Siteminder 5.5 	

Third-Party AAA Server	Qualified	Compatible
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)		X
SQL	<ul style="list-style-type: none">• Oracle 11g Express Edition	

MDM Solutions

Table 9 lists the requirements for integration with mobile device management (MDM) vendors.

Table 9: MDM Vendors

Solution	Qualified	Compatible
AirWatch		
Cloud service	X 9.3.0.2	X 8.4.7.0
Appliance OS		X
Virtual appliance OS	X	
MobileIron		
Cloud service	X Core 9.5.0.0 Build 77	X Core 9.1.1.0 Build 29
Appliance OS		X
Virtual appliance OS	X	
Pulse Workspace		
Cloud service	X 2.0-1708	
Microsoft Intune		X (with AD user names only)

802.1X Authenticators in Layer 2 Network Access Control Deployments

Table 10 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 10: 802.1X Authenticators

Platforms	Hardware Models	OS Version	Qualified	Compatible
EX Series	<ul style="list-style-type: none"> • EX 8200 • EX 6200 • EX 4500 • EX 4200 	Junos OS 15.1R4, 17.0	X	
Cisco Series	<ul style="list-style-type: none"> • Cisco 2960 • Cisco 3850 • Cisco 3750 • Cisco WLC 2500 Series 	<ul style="list-style-type: none"> • 15.2(2) E3 • 16.3.1 • 12.2(55) SE8 • 8.0.140.0 	X	
HP Procurve	2920 Series	WB.15.12.0015	X	
Aruba	Aruba3400	6.4.4.6	X	
Ruckus	Zone Director SmartZone	9.9.0.0 build 216 3.5.1.0.296	X	
SRX Series	SRX 100	Junos OS 12.1X46-D35.1		X
SRX Series	<ul style="list-style-type: none"> • SRX 3400 • SRX 1400 • SRX 650 • SRX 240 • SRX 220 • SRX 210 	Junos 12.3X48-D30.7		X
802.1X (other standards-compliant Ethernet switches)				X

Endpoint Security Assessment Plug-in (ESAP) Compatibility

ESAP package version 3.2.3 is the minimum version to be compatible with this release. The default version for ESAP is 3.2.3.

Infranet Enforcers in Layer 3 Resource Policy Deployments

Table 11 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 12: Infranet Enforcers

Platform	Hardware Models	Software Versions
Checkpoint Firewall	Virtual Appliance	R80.10 R77.30
Palo Alto Network	<ul style="list-style-type: none"> PA 500 PA 3000 	OS 6.0.6 OS 7.0.1 /OS 7.1.0 (VM) OS 8.0.1 (VM) OS 8.0.7 (VM)
SRX Series	<ul style="list-style-type: none"> SRX 220 	Junos OS 12.3X48-D30.7
*ScreenOS	<ul style="list-style-type: none"> SSG550 SSG20 ISG-1000 	ScreenOS 6.3.0R21
EX Series	<ul style="list-style-type: none"> EX 4200 	Junos OS 12.3R10.2* Unsupported in latest Junos versions.

Admission Control

Table 12 lists the IDP devices that are supported.

Table 12: IDP Devices in Admission Control Deployments

Hardware Models	Software Versions
Fortinet Fortigate Firewall	Fortinet Firewall v5.6.2, build1486 (GA) Fortinet Firewall: v5.4.2, build1100 (GA)
Forti Authenticator	v5.2.1, build0161 (GA) v4.00-build0019-20151007-patch00

Forti Analyzer

v5.4.2-build1151 161213 (GA)

v5.6.2-build1151 161213 (GA)

Palo Alto Networks Firewall

8.0.1

IF-MAP Compatibility

Table 13 lists the IF-MAP clients that are supported.

Table 13: IF-MAP clients

IF-MAP Client	Qualified	Compatible
Pulse Connect Secure	X	
Pulse Policy Secure	X	
Third-party IF-MAP 1.x clients		X

Policy Enforcement Using SNMP

Table 14: Switch List lists the switches which are qualified for Policy Enforcement using SNMP.

Table 14: Switch List

Platform	Hardware Models	Software Version	Qualified
Cisco	• 2960 Series	• 15.0.(2)EX5	X
	• 3750 Series	• 12.2(55)ES8	
	• 3850 Series	• IOS-XE 03.07.00E	
HP	• 2920 Series	• WB.15.12.0015	X

Profiling using Network Infrastructure Device collector

Table 16: lists the devices which are qualified for device profiling using Network Infrastructure Device Collector.

Table 16: Device List

Platform	Hardware Models	Software Version	Qualified	Compatible
Cisco	2960 Series	15.2(2) E3	X	
HP	2920 Series	WB.15.12.0015	X	
Juniper	EX 2200 Series	12.3R12.4	X	
Foundry	FESX424 Series	07.2.02		X
Nortel	2526T Series	4.0.0.000		X
D-Link	DES-3226S	4.01-B21		X
Cisco WLC	2500 WLC	7.6.130.0	X	
Aruba WLC	3400 WLC	6.4.2.4	X	
Ruckus WLC	1200 WLC	9.9.0.0.216	X	
Trapeze WLC	WLC-V	9.0.1.2.0		X
FortiGate	100D	5.4.2-1000	X	
Palo Alto Networks Firewall	PA 3000	OS 7.0.1/OS 7.0.1 (VM)	X	

Revision History

Table 15 lists the revision history for this document.

Table 15: Revision History

Revision	Description
April 2018	PPS Release 9.0R1 updates.
December 2017	PPS Release 5.4R4 updates- Added Check Point version R80.10.

September 2017 PPS Release 5.4R3 updates.

September 2017 Checkpoint, Fortinet, Microsoft Intune entries are newly added.
