



# Pulse Policy Secure

## Supported Platforms Guide

PPS 9.1R3.1

Build- 2559

For more information, go to [www.pulsesecure.net/products](http://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
November 20, 2019	PPS SPG 9.1R3.1 updates.
September 2019	PPS SPG 9.1R3 updates.
July 2019	PPS SPG 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 and Hyper-V

## 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
<b>Windows</b>			
<ul style="list-style-type: none"> <li>• Windows 10 (1903), 64-bit</li> <li>• Windows 8.1 Enterprise, 64-bit</li> <li>• Windows 7 Enterprise, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>• Firefox 60 ESR</li> <li>• Google Chrome 75</li> </ul>	Q	
<ul style="list-style-type: none"> <li>• Windows 10 (1909) (OS Build 18363.476)</li> <li>• Windows 10, Redstone 4 and previous versions, 64-bit</li> <li>• Windows 8.1 Enterprise, 64-bit</li> <li>• Windows 7 Enterprise, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>• Internet Explorer 11/Edge Browser</li> <li>• Firefox 52 ESR</li> </ul>		C
<ul style="list-style-type: none"> <li>• Windows 8.1 Professional, 64-bit</li> <li>• Windows 7 Ultimate / Professional / Home Basic / Home Premium, 32-bit or 64-bit</li> <li>• Windows 7 SP1 Enterprise, 32-bit</li> </ul>	<ul style="list-style-type: none"> <li>• Internet Explorer 7.0</li> <li>• Google Chrome</li> <li>• Firefox 3.0 and later</li> </ul>		C
<b>Mac</b>			
<ul style="list-style-type: none"> <li>• Mac OSX 10.15.1, 64-bit</li> <li>• Mac OSX 10.14.6, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>• Safari 12.1</li> <li>• Chrome 75</li> </ul>	Q	
<ul style="list-style-type: none"> <li>• Mac OS X 10.14.5, 64-bit</li> <li>• Mac OS X 10.13, 64-bit</li> <li>• Mac OS X 10.12 and previous versions, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>• Safari 11.1, Safari 11.0</li> <li>• Safari 10.0 and previous versions</li> </ul>		C

# 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
<b>Cisco</b>	<ul style="list-style-type: none"> <li>Cisco 2500 WLC [version 8.0.140.0] AIR-CAP702I [version is 15.2(4)JB6]</li> <li>Cisco catalyst 3850 [Cisco IOS Software, IOS-XE Software,</li> <li>Catalyst L3 Switch Software (CAT3K_CAA-UNIVERSALK9-M), Version 03.07.00E] AIR-CAP702I (version is 15.3(3)JNB)</li> </ul>	Q	
	<ul style="list-style-type: none"> <li>Cisco 5500 Series WLC</li> <li>Cisco 7500 Series WLC</li> <li>Cisco 8500 Series WLC</li> </ul>		C
<b>Aruba</b>	<ul style="list-style-type: none"> <li>Aruba 650 WLC [Aruba OS 6.1.3.6], AP-105 [ArubaOS Version 6.1.3.6]</li> <li>Aruba 3400 WLC [Aruba OS 6.4.4.6], AP-205 [ArubaOS Version 6.4.2.4]</li> <li>Aruba Instant Access Point 205 AP-205 [6.4.2.3-4.1.1.3]</li> </ul>	Q	
	<ul style="list-style-type: none"> <li>Aruba 600 Series WLC</li> <li>Aruba 3200 Series WLC</li> <li>Aruba 3600 Series WLC</li> <li>Aruba Instant Access Point 200 Series</li> </ul>		C
<b>Ruckus</b>	<ul style="list-style-type: none"> <li>Zone Director 1200 Series WLC [9.9.0.0.216]</li> <li>Virtual SmartZone – High Scale [3.2.0.0.790]</li> <li>Access Points (Zone flex R500 &amp; Zone flex R310)</li> </ul>	Q	
<b>Cisco Meraki</b>	<ul style="list-style-type: none"> <li>Model: MR 42</li> <li>Firmware version: MR 25.13</li> </ul>	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
<b>Windows</b>			
	Windows 10, Redstone 5 (1903), 64-bit	Q	
	• Windows 8.1 Enterprise, 64-bit		
	• Windows 7 SP1 Enterprise, 64-bit.		
	• Windows 10, Redstone 4 and previous versions Enterprise, 64-bit		C
	• 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		
<b>Mac</b>			
	• Mac OS X 10.15, 64-bit		C
	• Mac OS X 10.14, 64-bit		
<b>Google Android</b>			
	Android 9.0	Q	
	Android 8.1, 8.0		C
<b>Apple iOS</b>			
	iOS 13.1.2	Q	
	iOS 12.1, 11.2.6		C

## 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
<b>Windows</b>			
Windows 10, Redstone 5 (1903), 64-bit	<ul style="list-style-type: none"> <li>• Firefox 68 ESR</li> <li>• Google Chrome 77.0</li> <li>• Oracle JRE 11</li> </ul>	Q	
Windows 8.1 Enterprise, 64-bit			
Windows 7 SP1 Enterprise, 64-bit			
Windows 10 (1909) (OS Build 18363.476)	<ul style="list-style-type: none"> <li>• Internet Explorer 11/Edge Browser</li> <li>• Firefox 60 ESR</li> <li>• Google Chrome</li> <li>• Oracle JRE 8</li> </ul>		C
Windows 10, Redstone 4 and previous versions			

Operating System	Browsers/Java	Qualified	Compatible
<ul style="list-style-type: none"> <li>Windows 8.1 Professional, 64-bit</li> <li>Windows 7 Ultimate / Professional / Home Basic / Home Premium, 32-bit, or 64-bit platforms</li> <li>Windows 7 SP1 Enterprise, 32-bit or 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>Internet Explorer 11</li> <li>Internet Explorer 10 and previous versions</li> <li>Firefox 3.0 and later</li> <li>Google Chrome</li> <li>Oracle JRE 6 and later</li> </ul>		C
<b>Mac</b>			
<ul style="list-style-type: none"> <li>Mac OSX 10.15, 64-bit</li> <li>Mac OS X 10.14.6, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>Safari 12.0</li> <li>Chrome 75</li> </ul>	Q	
<ul style="list-style-type: none"> <li>Mac OS X 10.13, 64-bit</li> <li>Mac OS X 10.12, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>Safari 11.1.1</li> <li>Google Chrome</li> </ul>		C
<b>Linux</b>			
<ul style="list-style-type: none"> <li>Ubuntu 18.04</li> <li>Ubuntu 14.x</li> <li>openSUSE 12.1</li> </ul>	<ul style="list-style-type: none"> <li>Firefox 52 ESR</li> <li>Oracle JRE 8</li> </ul>		C
<ul style="list-style-type: none"> <li>openSUSE 10.x and 11.x</li> <li>Ubuntu 9.10, 10.x, and 11.x</li> <li>Red Hat Enterprise Linux 5</li> </ul>	<ul style="list-style-type: none"> <li>Firefox 3.0 and later</li> <li>Google Chrome</li> <li>Oracle JRE 6 and later</li> </ul>		C
<b>Solaris</b>			
Solaris 10, 32-bit	<ul style="list-style-type: none"> <li>Firefox 24 ESR</li> <li>Mozilla 2.0 and later</li> </ul>		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
Android 9.0	Android native browser	Q	
Android 8.0			C

## 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
<b>Linux</b>			
<ul style="list-style-type: none"> <li>openSUSE 12.1, 32-bit</li> <li>Ubuntu 18.x, 32-bit</li> <li>Ubuntu 14.x, 32-bit</li> </ul>	<ul style="list-style-type: none"> <li>Firefox 52 ESR</li> <li>Oracle JRE 8 Iced Tea</li> </ul>		C



<ul style="list-style-type: none"> <li>• openSUSE 11.x and 10.x</li> <li>• Ubuntu 11.x, 10.x, and 9.10</li> <li>• Red Hat Enterprise Linux 5</li> </ul>	<ul style="list-style-type: none"> <li>• Firefox 3.0 and later</li> <li>• Oracle JRE 6 and later</li> </ul>	C
Solaris OS 12	Firefox 24 ESR	C

## Host Checker

Table 8 lists the HC support on different platforms

Table 8: Host Checker

Operating System	Browsers/Security Products	Qualified	Compatible
<b>Windows</b>			
Windows 10, Redstone 5 (1903), 64-bit	Firefox 68 ESR Google Chrome 77 Oracle JRE 11 Internet Explorer 11, Edge	Q	
Windows 10 (1909) (OS Build 18363.476) 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 74 and Firefox 60 ESR, Oracle JRE 8	Q	
Windows 7 Enterprise SP1, 64-bit	Internet Explorer 11, Google Chrome 74 and Firefox 60 ESR, Oracle JRE 8		C
<b>Mac OSX</b>			
Mac OSX 10.15.1, 64-bit	Safari 12.0	Q	
Mac OS X 10.14.6, 64-bit			
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
<b>Linux</b>			
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
Windows 7	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"> <li>Windows Server 2019</li> </ul>	<ul style="list-style-type: none"> <li>Windows 2016</li> <li>Windows 2012</li> </ul>
LDAP using Active Directory	<ul style="list-style-type: none"> <li>Windows Server 2019</li> </ul>	<ul style="list-style-type: none"> <li>Windows 2016</li> <li>Windows 2012</li> </ul>
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"> <li>Steel-Belted Radius (SBR) 6.1</li> <li>RSA Authentication Manager 6.1</li> <li>Defender 5.2</li> <li>Windows IAS 2008</li> </ul>	
RADIUS (other standards compliant servers)		C
ACE	<ul style="list-style-type: none"> <li>RSA Authentication Manager 7.1 SP4</li> <li>RSA Authentication Manager 6.1</li> <li>RSA Authentication Manager 5.2</li> </ul>	
Siteminder	<ul style="list-style-type: none"> <li>CA Siteminder 12.0 SP3</li> <li>CA Siteminder 6.0 SP4</li> <li>CA Siteminder 5.5</li> </ul>	
Certificate	<ul style="list-style-type: none"> <li>Windows Server 2008 R2 Certificate Services</li> </ul>	

Third-Party AAA Server	Qualified	Compatible
	<ul style="list-style-type: none"> <li>RSA Keon Certificate Manager 6.5.1</li> </ul>	
Certificate (other standards-compliant servers)		C
SQL	<ul style="list-style-type: none"> <li>Oracle 11g Express Edition</li> </ul>	
*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
<b>AirWatch</b>		
Cloud service	19.03.0.6	18.10.0.4
Appliance OS		C
Virtual appliance OS		C
<b>MobileIron</b>		
Cloud service	10.1.0.2	9.7.0.2 Build 10
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			
	EX 6200			
	EX 4500	Junos OS 15.1R4, 17.0	Q	
	EX 4200			
Cisco Series	Cisco 2960	15.2(6) E2		
	Cisco 3850	16.9.1		
	Cisco 3750	12.2(55) SE11	Q	
	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 Series	SRX 3400		
	SRX 1400		
	SRX 240	Junos OS 12.1X46-D35.1	C
	SRX 220		
	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	9.0.0
SRX Series	• SRX 220	Junos OS 12.3X48-D30.7
	• SRX 650	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	9.0.0
	8.0.7
Juniper SDSN Solution	Junos SRX 15.1X49-D140.2
	Junos Space 18.3
Nozomi Network SCADAguardian Device	18.5.4-03291152_AF752
IBM QRadar	7.3.2 Build 20190705120852
Splunk Enterprise	7.3.1.1

## Behavioral Analytics

Table 1415 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
<b>VLAN/ACL Based</b>			
Cisco	• 2960 Series	• 15.0.(2)EX5	Q
	• 3750 Series	• 12.2(55)ES8	
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

# 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	
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	

# 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 7/64-bit	Symantec Endpoint Protection 14.x	Q	
Windows 7/64-bit	McAfee Total Protection 16.x		C
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 7/32-bit	McAfee Total Protection 16.x	Q	
Windows 7/32-bit	Symantec Endpoint Protection 14.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 7/64-Bit	Microsoft Security Essentials (4.x)	Q	
Windows 7/64-Bit	Microsoft Security Essentials (2.x)		C
Windows 7/64-Bit	Windows Defender 6.x (Only Antispyware)	Q	
Windows 8 and later/64-Bit	Windows Defender 4.x	Q	