

Pulse Connect Secure Supported Platforms Guide

PCS 8.2R6 Build 51693

The current version of this product is now called Pulse Connect Secure. For more information go to www.pulsesecure.net/products

Contents

Introduction	3
Hardware.....	4
Client Environment Contents.....	5
Windows Supported Platforms.....	5
MAC OSX Supported Platforms	6
Linux Supported Platforms.....	7
Pulse Secure Installer Service	8
Cross-Platform Features	8
Network Connect Notes	8
Pulse Application Launcher (PAL) Support	8
Pulse Desktop Client	9
Pulse Secure Collaboration Client Recommendations.....	9
Pulse Secure Mobile Client	9
Platform Support for Device Onboarding.....	10
MDM Solutions	10
Platform Support for AAA.....	11
Third-Party Applications	12
Revision History.....	14
Template Revision History	16

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 8.2 software on the following platforms.

- PSA300
- PSA3000
- PSA5000
- PSA7000f
- PSA7000c
- MAG2600
- MAG4610
- MAG6610 with Service Module SM160 or SM360
- MAG6611 with Service Module SM160 or SM360
- Virtual Appliances (VA-SPE) on ESXi, KVM and Hyper-V

Client Environment Contents

- [Windows Supported Platforms](#)
- [MAC OSX Supported Platforms](#)
- [Linux Supported Platforms](#)
- [Pulse Desktop Client](#)
- [Pulse Secure Collaboration Client Recommendations](#)
- [Pulse Secure Mobile Client](#)
- [Platform Support for Device Onboarding](#)
- [MDM Solutions](#)

You can install and use Release 8.2 software on the following platforms.

Windows Supported Platforms

Table 1 Lists supported windows platforms vs PCS features:

Windows Platform	Admin UI	BYOD	Cross Platform Features	Host Checker	Network Connect	Pulse Application Launcher	Pulse Secure Installer Service	Windows Secure Application Manager	Terminal Services
Windows 10 RedStone Enterprise/Pro/Home	Q	Q	Q	Q	Q	Q ^②	Q	Q ^④	Q
Windows 10 Enterprise/Pro/Home	Q	Q	Q	Q	Q	Q ^②	Q	Q ^④	Q
Windows 8.1 Update/ Professional / Enterprise , 64-bit	Q	Q	Q	Q	Q	Q ^②	Q	Q	Q
Windows 8.1 Update/ Professional / Enterprise , 32-bit	C	C	C	C	C	C ^②	C	C	C

Windows 8 Basic edition / Professional/ Enterprise, 32-bit & 64-bit	Internet Explorer 10, Google Chrome ^① and Firefox 31 & later. Oracle JRE 7 and later	C	C	C	C	C	C ^②	C	C	C
Windows 7 Enterprise SP1, 64-bit	Internet Explorer 11, Google Chrome ^① & Firefox 45 ESR.	Q	Q	Q	Q	Q	Q ^②	Q	Q	Q
Windows 7 Ultimate / Professional / Home Basic / Home, 32-bit or 64-bit Windows 7 Enterprise (32-bit)	Internet Explorer 11, Google Chrome ^① & Firefox 31 and later. Oracle JRE 7 and later	C	C	C	C	C	C ^②	C	C	C
Windows Vista Enterprise / Home Basic / Home Premium / Professional / Ultimate, 64-bit or 32-bit	Internet Explorer 9.0 & Firefox 24 and later Oracle JRE 6 and later	C	C	C	C	C	-	C	C	C
Windows 7 Enterprise SP1, 64-bit										
Windows 8.1 Update/ Professional / Enterprise , 64-bit	Firefox 45 ESR, 32-bit Oracle JRE 8	C	C	C	-	C	-	C	C	C
Windows 10 Enterprise/Pro/Home										

MAC OSX Supported Platforms

Table 2 lists supported Mac OSX platforms vs PCS features:

MAC OSX Platform	Admin UI	BYOD	Cross Platform Features	Host Checker	Network Connect	Pulse Application Launcher	Pulse Secure Installer Service	Windows Secure Application Manager	Terminal Services
Mac OS X 10.11, 10.10 Safari 10.0 Safari 9.0 Oracle JRE 8	C	Q	Q	C	-	Q	-	-	-
Mac OS X 10.10 Safari 8.0 Oracle JRE 8	C	C	C	C	-	C	-	-	-
Mac OS X 10.9 Safari 9.0, Safari 7.0 Oracle JRE 8	C	C	C	Q	-	-	-	-	-

Mac OS X 10.8	Safari 6.0 Oracle JRE 8	C	C	C	C	C	-	-	-	-
---------------	----------------------------	---	---	---	---	---	---	---	---	---

Note: Pulse Application Launcher supports Pulse Client and Host Checker.

Linux Supported Platforms

Table 3 lists supported Linux platforms vs PCS features:

Linux Platform	Admin UI	BYOD	Cross Platform Features	Host Checker	Network Connect	Pulse Application Launcher	Pulse Secure Installer Service	Windows Secure Application Manager	Terminal Services	Pulse Secure Linux
openSUSE 12.1	Firefox 38 ESR	C	-	Q	Q	Q	-	-	-	-
	Firefox 45 ESR, 32-bit	C	-	C	C	C	-	-	-	-
openSUSE 11.x, 10.x	Oracle JRE 8	C	-	C	C	C	-	-	-	-
Ubuntu 16.04 LTS	Firefox 38 ESR	-	-	-	Q	Q	-	-	-	Q
	Firefox 45 ESR, 64-bit	-	-	-	C	C	-	-	-	-
Ubuntu 15.04	Firefox 38 ESR	-	-	-	Q	Q	-	-	-	Q
	Firefox 45 ESR, 64-bit	-	-	-	C	C	-	-	-	-
Ubuntu 14.04 LTS	Firefox 38 ESR	C	-	Q	Q	Q	-	-	-	Q
	Firefox 45 ESR, 32-bit/64-bit	C	-	C	C	C	-	-	-	-
Ubuntu 12.04 LTS, 11.x, 10.x, 9.10	Oracle JRE 7 and later	C	-	C	C	C	-	-	-	C
RHEL 5	Firefox 38 ESR	C	-	C	C	C	C	-	-	C
	Firefox 45 ESR, 32-bit	C	-	C	C	C	C	-	-	-
RHEL 7	-	-	-	-	Q	Q	-	-	-	Q
	-	-	-	-	C	C	-	-	-	-

Linux Platform	Admin UI	BYOD	Cross Platform Features	Host Checker	Network Connect	Pulse Application Launcher	Pulse Secure Installer Service	Windows Secure Application Manager	Terminal Services	Pulse Secure Linux
Fedora 23	Firefox 45, 32-bit	-	-	-	Q C	Q C				Q
CentOS 6.4	Firefox 45, 32-bit/64-bit	-	-	-	Q C	Q C	-	-	-	Q

Pulse Secure Installer Service

Pulse Secure Installer Service is supported for the following client applications:

- Network Connect
- Windows Secure Application Manager
- Host Checker
- Pulse Collaboration
- Terminal Services

Cross-Platform Features

The Pulse Connect Secure supports the following features on multiple platforms:

- File Browsing
- HTML5 RDP
- Java Secure Application Manager (JSAM) ①
- Premier Java Applet①
- Pulse Collaboration
- Secure Terminal Access①
- Web Browsing

① **Note:** Mozilla Firefox, Google Chrome and Microsoft Edge browsers doesn't support Java Applet, Secure Terminal Access and Java Secure Application Manager (JSAM).

④ **Note:** Edge browser is not supported for WSAM.

Network Connect Notes

For Network Connect, a Linux endpoint can run a 32-bit client on a 64-bit Linux platform.

NOTE: Network Connect is not supported on Mac 10.9 and later.

Pulse Application Launcher (PAL) Support

Pulse Connect Secure 8.2r1 introduced a new mechanism, "Pulse Application Launcher" (PAL), for launching and installing Pulse Secure clients from a web browser which have deprecated Java Plugin, ActiveX technologies and have restrictions on Java.

② **Note** - Supported on Mozilla Firefox, Google Chrome & Edge Browser on Windows Platform.

Details are listed in [Windows Supported Platforms](#).

Pulse Application Launcher supports delivery & installation of following Components:

- Pulse Desktop Client
- Network Connect
- Windows Secure Application Manager
- Host Checker
- Pulse Collaboration
- Terminal Services

Pulse Desktop Client

See the [Pulse Secure Desktop Client Supported Platforms Guide](#)

Pulse Secure Collaboration Client Recommendations

Table 4 lists the recommended minimum platform requirements for Pulse Secure collaboration client.

Component	Requirements
CPU	1 GHz or more for Windows Client. 1 GHz G4 or Intel processor for a Mac.
Memory	256 MB of available RAM or more.
Color Quality	For best results, use 16 bits. 8 bits, 16 bits, 24 bits, and 32 bits are also supported.
Monitor Resolution	1024 x 768 pixels. Up to 2048 x 2048 pixels is supported.



Note: Pulse Secure Collaboration Client is not supported on a Mac PowerPC.
It is supported only on Intel-based Mac machines.



Note: Pulse Collaboration sharing features are not supported on Ubuntu 12.04,
Linux openSUSE 11.x, 10.x, and Linux openSUSE 12.1.

Pulse Secure Mobile Client

Table 5 lists supported mobile platforms for the Pulse Secure Mobile Client.

Mobile Platforms	Active Sync	Host Checker	HTML5 RDP	VPN	Pulse Collaboration	Rewriter
Android 4.4.x,5.0, 5.0.1, 5.0.2 ,5.1.1, 6.0,6.0.1,7.0 6.0, 6.0.1 6.0, 6.0.1	Q	Q	Q	Q	-	-
Android 2.3.5, 2.3.7, 4.0, 4.2, 4.3,	C	C	C	C	-	-

IOS 10.0 Beta4, 9.3,9.3.2,9.2.1,8.3,8.1. 3	-	Q ^③	-	Q ^③	C	-
IOS 9.3.3,9.3.4,9.3.1,9.2,9. 1,9.0,8.2,8.1,8.0	Q ^③	C ^③	Q ^⑥	C ^③	C	-
Windows Phone 8.1	Q	-	-	-	-	C

③ **Note** - IPv6 Supported

⑥ **Note** - IPv6 is not supported for HTML5 RDP

Note - IOS 10.X is not qualified for HTML5 RDP and ActiveSync

Platform Support for Device Onboarding

Table 6: Device Onboarding Features – lists Device onboarding features that are qualified with this release.

Operating System/Feature	VPN	Certificate	WiFi	Secure Email
<ul style="list-style-type: none"> iOS 9.3.4, 9.0.1 & 8.4.1, 64-bit 	Q	Q	Q	Q
<ul style="list-style-type: none"> iOS 8.3 64-bit iOS 7.1.2 64-bit & 32-bit iOS 7.1 and 6.x 64-bit and 32-bit 	C	C	C	C
<ul style="list-style-type: none"> Android 6.0.1 and 5.1.1 	Q	Q	Q	-
<ul style="list-style-type: none"> Android 4.4.4 , 4.4.3, 4.4.2 and 4.3 	C	C	C	-
<ul style="list-style-type: none"> Windows 10 Windows 8.1 Windows 7 	-	Q	Q	-
<ul style="list-style-type: none"> Mac OS X 10.11, Safari 9.0 & Safari 10.0 Mac OS X 10.10.5, Safari 8.0.8 Mac OS X 10.9.5 Safari 7.0.x 	-	Q	Q	-
<ul style="list-style-type: none"> Mac OS X 10.8.5, Safari 7.0.x and 6.0.x 	-	C	C	-

MDM Solutions

Table 7: MDM Vendors - Lists the requirements for integration with mobile device management (MDM) vendors.

Solution	Qualified	Compatible
AirWatch		

Solution	Qualified	Compatible
Cloud service	✓ 8.4.5.0	
Appliance OS		✓
Virtual appliance OS	✓	
MobileIron		
Cloud service	✓ Core 9.0.1.1 Build 2	
Appliance OS		✓
Virtual appliance OS	✓	
Pulse Workspace		
Cloud service	✓ 1.8.0-1628	

Platform Support for AAA

Table 8: Third-Party AAA Servers - Lists supported third-party AAA servers.

Third-Party AAA Server	Qualified	Compatible
Active Directory*	<ul style="list-style-type: none"> Windows 2012 R2** Windows 2008 R2 	Windows 2003
LDAP using Microsoft Active Directory	<ul style="list-style-type: none"> Windows 2012 R2 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 (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 RSA Authentication Manager 8.1 	Windows IAS 2008
RADIUS IPv6 Support	<ul style="list-style-type: none"> Steel-Belted RADIUS (SBR) 6.1 	<ul style="list-style-type: none"> Windows NPS 2012 R2 Free-RADIUS 2.1
RADIUS (other standards-compliant servers)		✓
ACE	<ul style="list-style-type: none"> RSA Authentication Manager 8.1 	<ul style="list-style-type: none"> RSA Authentication Manager 8.0 RSA Authentication Manager 7.1 SP4
Siteminder	<ul style="list-style-type: none"> CA Siteminder 12.52 SP1 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 2008 R2 	RSA Keon Certificate Manager 6.5.1
Certificate (other standards-compliant servers)		✓
SAML*** 2.0, 1.1	<ul style="list-style-type: none"> PingFederate 6.4.1.1 	<ul style="list-style-type: none"> Microsoft ADFS 2.0 (Server 2008 R2) Oracle Identity Federation 11.1.1.2.0
SAML 2.0, 1.1 (other standards-compliant servers)		✓

*Additional requirements and limitations apply. See Active Directory.

** Applicable only for New AD mode Auth server.

***For information on the SAML SSO profiles, bindings, and protocols that we support, see Supported SAML SSO Profiles.

Third-Party Applications

Table 9: Third-Party Applications - Lists supported third-party applications

Application	Support Summary	Qualified	Compatible
Outlook Web Access (OWA)			
OWA 2016	Web Profiles (Rewriter, Passthrough Proxy)	✓	
OWA 2013 SP1	Web Profiles (Rewriter, Passthrough Proxy)	✓	
OWA 2010 SP2	Web Profiles (Rewriter, Passthrough Proxy)		✓
OWA 2010 SP1	Web Profiles (Rewriter, Passthrough Proxy)		✓
OWA 2007	Web Profiles (Rewriter, Passthrough Proxy)		✓
SharePoint			
SharePoint 2016	Web Profiles (Rewriter, Passthrough Proxy)	✓	
SharePoint 2013 SP1	Web Profiles (Rewriter, Passthrough Proxy)	✓	
SharePoint 2010	Web Profiles (Rewriter, Passthrough Proxy)		✓
SharePoint 2007	Web Profiles (Rewriter, Passthrough Proxy)		✓
IBM Domino			
Lotus iNotes 8.5.3	Web Profiles (Rewriter, Passthrough Proxy)		✓
Lotus Connect 3.0, 2.5	Rewriter		✓
Citrix			
Citrix Listed Applications With Server XenApp 7.8	Citrix Terminal Services	✓	
Citrix Listed Applications With Server XenApp 7.6	Citrix Terminal Services	✓	
Citrix StoreFront 2.6 with HTML5 Access	Rewriter	✓	

Application	Support Summary	Qualified	Compatible
Citrix StoreFront 3.5 with HTML5 Access	Rewriter	✓	
Citrix StoreFront 3.0 with HTML5 Access	Rewriter		✓
Citrix Listed Applications With Server 6.5 SP1 , 6.0	Citrix Terminal Services		✓
Citrix Receiver 4.3.100	Web, Terminal Services and SAM profiles.		✓
XenDesktop 7.8, 7.0, 5.6,	VDI Profiles	✓	
XenDesktop 5.0	VDI Profiles		✓
Citrix Web Interface 5.4	Web Profiles (Rewriter, JSAM, and WSAM)	✓	
Citrix Web Interface 4.5	Web Profiles (Rewriter, JSAM, and WSAM)		✓
Citrix Program Neighborhood Agent with Citrix Server 6.0	JSAM, WSAM		✓
VMWare			
VMWare Horizon view HTML Access, version 7.0, 6.2 and 6.1	Rewriter	✓	
VMWare Horizon view server version supported are 7.0, 6.2 and 6.1	VDI Profiles	✓	
VMWare Horizon View Server 6.0, 5.3, 5.2	VDI Profiles		✓
VMWare Horizon View Client 2.3.3, 3.5.2, 4.1.0	VDI Profiles	✓	
VMWare View Server 4.6, 5.0, 5.1	VDI Profiles		✓
VMWare View Client 4.6, 5.0, 5.1, 5.2			✓
Exchange ActiveSync			
Office 365	Secure Mail Resource Profile	✓	
Exchange 2016	Secure Mail Resource Profile	✓	
Exchange 2013	Secure Mail Resource Profile	✓	
Exchange 2010 SP1	Secure Mail Resource Profile	✓	
Exchange 2007	Secure Mail Resource Profile		✓
ESAP Package			
ESAP 2.9.0 & 2.8.8	Host Checker	✓	
Virtual SA			
ESXi 5.5, 5.5 U3	VA-DTE, VA-SPE	✓	
ESXi 6.0	VA-DTE & VA-SPE		✓
KVM			
CentOS 6.6 with Kernel cst-kvm 2.6.32-504.el6.x86_64	VA-DTE & VA-SPE	✓	

Application	Support Summary	Qualified	Compatible
Hyper-V			
Microsoft Hyper-V Server 2012 R2		✓	

Revision History

Table 10: Lists changes to this document from the previous release.

Section	Add	Drop or Moved	Effective Release	Notes
Windows Supported Platform		References to note on Windows 10 RedStone support	8.2r6	Removed references to note on no support on Windows 10 RedStone for WSAM, Legacy WSAM and Windows Terminal Services SSO
Linux Supported Platform		Pulse Linux Client Supported Platform	8.2r6	Removed references to Note about Pulse Linux Client Supported Platform.
Pulse Secure Mobile Client	<ul style="list-style-type: none"> IPv6 Support 		8.2r5	Added support for IOS (Host Checker, VPN) 10.0 Beta4, 9.3.9.3.2,9.2.1,8.3,8.1 Added support for IOS (Active Sync) 9.3.3,9.3.4,9.3.1,9.2,9.1,9.0,8.2,8.1,8.0
Windows Supported Platforms	<ul style="list-style-type: none"> Windows 10 RedStone Enterprise/Pro/Home 		8.2r5	Added Support for Windows 10 RedStone Enterprise/Pro/Home
MDM Solutions	<ul style="list-style-type: none"> Pulse Workspace 		8.2r5	Added Cloud Service
Linux Supported Platforms	<ul style="list-style-type: none"> Ubuntu 14.04 (64-bit) CentOS 6.4 (32-bit/64-bit) Fedora 23 RHEL 7 Ubuntu 15.04 & Ubuntu 16.04 		8.2r4	Added support for Ubuntu 15.04 & Ubuntu 16.04 ; Ubuntu 14.04 (64-bit); CentOS 6.4 (32-bit/64-bit); Fedora 23; RHEL 7
Third-Party Applications	Citrix StoreFront 3.5		8.2r3	(8.2r3) Added Support for Citrix StoreFront 3.5.
Third-Party Applications	Hyper-V		8.2r3	Added Support for Hyper- V platforms details for Virtual SA
Windows Supported Platform & Linux Supported Platform	Firefox 45 ESR, 32-bit		8.2r3	Added Compatible support for Firefox 45 ESR, 32-bit
Third-Party Applications	VMWare View Client 3.5.2 & 2.3.3		8.2r3	Added Support for VMware 3.5.2 & 2.3.3 (8.2r3)
Third-Party Applications	SharePoint 2013 SP1		8.2r3	Added Support for SharePoint 2013 SP1
Third-Party Applications	OWA 2016		8.2r3	Added support for OWA 2016
Platform Support for AAA	Site minder 12.52 Sp1		8.2r3	Added Support for Site minder 12.52 SP1.

Section	Add	Drop or Moved	Effective Release	Notes
Windows Supported Platform	Edge		8.2r3	Added Edge Browser Support.
Third-Party Applications	ESX & KVM details for VA		8.2r3	Added section for VA Support for ESX versions & KVM
Third-Party Applications	ESAP		8.2r1	Added Qualified ESAP versions for 8.2.
Third-Party Applications	VMWare 6.0.1, 6.1 and 6.2		8.2r1	Added Support for VMWare Horizon view server version supported are 6.0.1, 6.1 and 6.2
Client Environment	Pulse Application Launcher Support		8.2r1	Feature Added in 8.2r1 onwards
Pulse Secure Mobile Client Platform Support for Device Onboarding	IOS 9.1,8.3		8.2r1	Added support for IOS 9.1 & 8.3
Windows Supported Platform	Windows 10		8.2r1	Added support for Windows 10
MAC OSX Supported Platforms	Mac 10.11	10.7	8.2r1	Added Support for Mac OSX 10.11 Removed Old 10.7 Version
Platform Support for AAA	Windows 2012 R2		8.2r1	Added Support for Windows 2012 R2 under Active Directory & LDAP.
Third-Party Applications	XenApp 7.6 & StoreFront 2.6 & 3.0		8.2R1	Added Support for Citrix XenApp 7.6 & StoreFront 2.6 & 3.0
Mobile		Blackberry & Symbian	8.2R1	Remove entries for Blackberry & Symbian under Mobile Section.
Third-Party Applications		WRQ App	8.2R1	Remove WRQ Application from Third-Party Application list.
Hardware		SA2500 SA4500 SA6500 SAX500 FIPS	8.2R1	SAX500 Platforms are not supported to run 8.2R1.
Hardware	PSA300 PSA3000 PSA5000 PSA7000c PSA7000f		8.1r4.1	8.1R4.1 supports the following new Next-Generation hardware platforms: <ul style="list-style-type: none"> • PSA300 • PSA3000 • PSA5000 • PSA7000c • PSA7000f
Cross Platform Support/Compatibility Platforms	IOS		8.1R4	Updated IOS version 8.1 and 8.0.
Cross Platform Support/Compatibility Platforms	MDM		8.1R4	Updated MDM server version.
Cross Platform Support/Compatibility Platforms	JRE		8.1R1	Included support for JRE 7 & 6.

Section	Add	Drop or Moved	Effective Release	Notes
Server Support	OWA		8.1R1	OWA 2013SP1 and SP2 are included in support.
Server Support	Citrix Apps		8.1R1	Citrix listed Apps support for 6.5SP1 is added and 6.x support is moved to compatible and 5.x support is removed since it's an older version.
Server Support	XenDesktop		8.1R1	XenDesktop 7.0 and 5.6 support is included, 5.0 is moved to compatible and 4.0 support is removed since it is an older version.
Server Support	VMware		8.1R1	Support for VMware 3.0 and 4.5 is removed from SPD as it is an older version.
Server Support	Windows Server 2003		8.1R1	Windows 2003 platforms are moved to compatible section.
Server Support	RSA Auth Manager		8.1R1	RSA Authentication Manager 5.x and 6.x support is moved to compatible.
Server Support	Windows IAS		8.1R1	Windows IAS support is moved to compatible.
Server Support	CA Siteminder		8.1R1	Siteminder 5.x support is moved to compatible.
Server Support	SAML		8.1R1	ADFS and OIF support is moved to compatible.
Browser Support	Mac OS 10.x		8.1R1	Added Safari version 8.0.
Cross Platform Support/Compatibility Platforms	Android		8.1R1	Updated Android version 5.0.

Template Revision History

Table 11 lists the revision history for this document.

Table 11: Revision History

Revision	Description
01/03 July 2015	Initial publication.
02/04 Sep 2015	Revised with a new SPG template