



Pulse Connect Secure Supported Platforms Guide

PCS 8.1R5 Build 38093

Supported Platforms Guide

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

Product Release

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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**—Indicates that the item was systematically tested by QA for this release.
- **Compatible**—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 8.1 software on the following platforms.

- PSA300
- PSA3000
- PSA5000
- PSA7000f
- PSA7000c
- SA2500
- SA4500
- SA6500
- SA X500 FIPS
- MAG2600
- MAG4610
- MAG6610 with Service Module SM160 or SM360
- MAG6611 with Service Module SM160 or SM360
- Virtual Appliances (VA-SPE) on ESXi 5.5 and KVM

Administrator Web User Interface

Table 1: Admin Web User Interface

Operating System	Browsers/Java	Qualified	Compatible
Linux			
Linux openSUSE 12.1	<ul style="list-style-type: none"> • Firefox 31 ESR • Google Chrome • Oracle JRE 8 		✓
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> • Firefox 31 ESR • Google Chrome • Oracle JRE 7, JRE 8 		✓
Mac			
Mac OS X 10.10,10.9, 10.8, 64-bit	<ul style="list-style-type: none"> • Safari 8.0 • Safari 7.0 • Safari 6.0 • Safari 5.1 • Oracle JRE 8 		✓
Solaris			
Solaris 10, 32-bit	Mozilla 2.0 and later		✓
Windows*			
Windows 8 Enterprise, 64-bit Windows 7 Enterprise SP1, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10, 9 • Firefox 31 ESR • Google Chrome • Oracle JRE 8 	✓	✓
Windows 8.1 Update/ Professional / Enterprise Windows 7 Ultimate / Professional / Home Basic / Home Windows 10 Enterprise/Professional/Home	Internet Explorer 11		✓
*On Windows 8.1, 8.0 platforms, the endpoint must use desktop mode and enable plug-ins in the Internet Explorer configuration.			

Client Environment

- Pulse Desktop Client
- Pulse Secure Mobile Client
- Features Supported Only on Windows Platforms
- Pulse Secure Collaboration Client
- Cross-Platform Features

Pulse Desktop Client

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

Pulse Secure Mobile Client

- Support Mobile Platforms for Pulse Secure Mobile Client
- IPv6 Supported Features for Pulse Secure Mobile Client
- IPv4 Supported Features for Pulse Secure Mobile Client

Table 2: Support Mobile Platforms for Pulse Secure Mobile Client

Mobile Operating System	Qualified	Compatible
Android	5.0,4.4.x, 4.3, 4.2, 4.1, and 2.3.5	4.0, 3.0,2.3.7
iOS (iPhone , iPad, and iPod)	8.1,8.0,7.1.1, 7.1, 7.0, 6.1.3	7.1, 6.1
Blackberry	7.0, v6.0.0.246	7.1, 7.0, v5.0

Table 3: IPv6 Supported Features for Pulse Secure Mobile Client

Feature	Android	iOS	Symbian	Windows
VPN		✓		
Host Checker		✓		
Active Sync		✓		

Table 4: IPv4 Supported Features for Pulse Secure Mobile Client

Feature	Android	iOS	Symbian	Windows
VPN	✓ (ICS*)	✓	✓ (Only rewriting)	✓ (WSAM)
Security (MSS)	✓		✓	✓
Host Checker	✓	✓		
Secure Meeting		✓		No
Active Sync	✓	✓	✓	✓
Rewriting	✓	✓	✓	✓
*VPN support is available for Android ICS 4.0. For supported versions prior to ICS 4.0, the Android platform build should be used or VPN drivers must be installed.				

Features Supported Only on Windows Platforms

The Pulse Connect Secure supports the following features only on Windows platforms:

- Windows Secure Access Manager (WSAM)
- Terminal Services

Table 5: Client Environment for WSAM and Terminal Services

Operating System	Browsers/Java	Qualified	Compatible
Windows 10 Enterprise/Professional/Home, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11 • Google Chrome • Firefox 31 ESR 		✓
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 31 ESR • Google Chrome • Oracle JRE 7 and later 		✓
Windows 8.1 Update/Professional / Enterprise Windows 7 Ultimate / Professional / Home Basic / Home	<ul style="list-style-type: none"> • Internet Explorer 11 • Firefox 31 ESR • Google Chrome • Oracle JRE 8 	✓	
Windows 8 Enterprise, 32-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 24 and later • Oracle JRE 7 and later 		✓
Windows 8 basic edition / Professional, 32-bit or 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 24 and later • Oracle JRE 7 and later 		✓
Windows 7 Enterprise SP1, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10, 9 • Firefox 31 ESR • Google Chrome • Oracle JRE 7 	✓	

Windows 7 Enterprise SP1, 32-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Internet Explorer 9.0 • Internet Explorer 8.0 • Internet Explorer 7.0 • Firefox 24 and later • Oracle JRE 7 and later 	✓
Windows 7 Ultimate / Professional / Home Basic / Home, 32-bit or 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Internet Explorer 9.0 • Internet Explorer 8.0 • Internet Explorer 7.0 • Firefox 24 and later • Oracle JRE 7 and later 	✓
Windows Vista Enterprise / Home Basic / Home Premium / Professional / Ultimate, 64-bit or 32-bit	<ul style="list-style-type: none"> • Internet Explorer 9.0 • Internet Explorer 8.0 • Internet Explorer 7.0 • Firefox 24 and later • Oracle JRE 6 and later 	✓

On Windows 8.1, 8.0 platforms the endpoint must use desktop mode and enable plug-ins in the Internet Explorer configuration.

Pulse Secure Collaboration Client

Table 6: Recommended 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.

Cross-Platform Features

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

- Cache Cleaner
- File Browsing
- Host Checker
- Java Secure Application Manager (JSAM)
- Network Connect
- Secure Client-Side Java Applets
- Secure Terminal Access
- Web Browsing
- Pulse Collaboration
- Terminal Services

Windows Desktop Platform Requirements for Cross-Platform Features

Table 7: Windows Desktop Platform Requirements for Cross-Platform Features

Operating System	Browsers/Java	Qualified	Compatible
Windows 10 Enterprise/ Professional/ Home, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11 • Google Chrome • Firefox 31 ESR 		✓
Windows 8.1 Update/ Professional / Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11 • Firefox 24 ESR • Google Chrome • Oracle JRE 8 		✓
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 31 ESR • Google Chrome • Oracle JRE 8 	✓	
Windows 8 Enterprise, 32-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 24 and later • Oracle JRE 6 and later 		✓
Windows 8 basic edition / Professional, 32-bit or 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 24 and later • Oracle JRE 6 and later 		✓
Windows 7 Ultimate / Professional / Home Basic / Home, 32-bit & 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11, 10, 9 • Firefox 24 and later • Oracle JRE 6 and later 		✓
Windows 7 professional SP1,32-bit & 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11, 10, 9 • Firefox 24 and later • Google Chrome • Oracle JRE 7 		✓
Windows 7 Enterprise SP1, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11, 10, 9 • Firefox 31 ESR • Google Chrome • Oracle JRE 7 	✓	
Windows 7 Enterprise SP1, 32-bit	<ul style="list-style-type: none"> • Internet Explorer 11, 10, 9, 8, 7 • Firefox 24 and later • Oracle JRE 6 and later 		✓

Windows Vista Enterprise / Ultimate / Business / Home-Basic / Home-Premium, 32-bit or 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11, 10, 9, 8, 7 • Firefox 24 and later • Oracle JRE 6 and later 	✓
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On Windows 8.1, 8 platforms the endpoint must use desktop mode and enable plug-ins in the Internet Explorer configuration.

Non-Windows Desktop Platform Requirements for Cross-Platform Features

Table 8: Non-Windows Desktop Platform requirements for Cross-Platform Features (except Network Connect)

Operating System	Browsers/Java	Qualified	Compatible
Linux	<ul style="list-style-type: none"> • Firefox 31 ESR • Google Chrome • Oracle JRE 7 and later 		✓
Linux openSUSE 12.1	<ul style="list-style-type: none"> • Firefox 24 ESR • Oracle JRE 8 	✓	
Linux openSUSE 12.1	Google Chrome		✓
Linux openSUSE 11.x, 10.x	<ul style="list-style-type: none"> • Firefox 24 and later • Oracle JRE 6 and later 		✓
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> • Firefox 24 ESR • Oracle JRE 8 	✓	
Linux Ubuntu 12.04 LTS	Google Chrome		✓
Linux Ubuntu 11.x, 10.x, 9.10	<ul style="list-style-type: none"> • Firefox 24 and later • Oracle JRE 6 and later 		✓
Mac			
Mac OS X 10.10,10.9, 64-bit	<ul style="list-style-type: none"> • Safari 8.0, 7.0 • Oracle JRE 8 	✓	
Mac OS X 10.7.4, 10.6 64-bit and 32-bit	<ul style="list-style-type: none"> • Safari 6.0, 5.1, 5.0 • Oracle JRE 6 and later 		✓
Mac OS X 10.8, 32-bit	<ul style="list-style-type: none"> • Safari 6.0, 5.1, 5.0 • Oracle JRE 6 and later 		✓
Solaris			
Solaris 10, 32-bit	Mozilla 2.0 and later		✓

For Network Connect, an 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.

Table 9: Non-Windows Desktop Platform requirements for Network Connect

Operating System	Browsers/Java	Qualified	Compatible	Not Supported
Linux Fedora 12	<ul style="list-style-type: none"> Firefox 24 ESR Oracle JRE 8, 7, 6 Iced-Tea Web 1.2 with OpenJDK 7, 6 	✓		
Linux Fedora 12	Google Chrome		✓	
Linux openSUSE 12.1	<ul style="list-style-type: none"> Firefox 24 ESR Oracle JRE 8, 7, 6 Iced-Tea Web 1.2 with OpenJDK 7, 6 	✓		
Linux openSUSE 12.1	Google Chrome		✓	
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> Firefox 24 ESR Oracle JRE 8, 7, 6 Iced-Tea Web 1.2 with OpenJDK 7, 6 	✓		
Linux Ubuntu 12.04 LTS	Google Chrome		✓	
Solaris				✓
Mac OS 10.9				✓
Mac OS X 10.8, 64-bit	<ul style="list-style-type: none"> Safari 6.0, 5.1 Oracle JRE 8 	✓		
Mac OS X 10.7.4, 10.6 64-bit and 32-bit	<ul style="list-style-type: none"> Safari 6.0, 5.1, 5.0 Oracle JRE 6 and later 		✓	
Mac OS X 10.8, 32-bit	<ul style="list-style-type: none"> Safari 6.0, 5.1, 5.0 Oracle JRE 6 and later 		✓	

Platform Support for Device Onboarding

Table 10 lists platform requirements for device onboarding features that are qualified with this release.

Table 10: Device Onboarding Features

Operating System/Feature	VPN	Certificate	Wifi	Secure Email
<ul style="list-style-type: none"> • iOS 8.3 64-bit • iOS 7.1.1, 64-bit and 32-bit • iOS 7.1 • iOS 6.1.x 	✓	✓	✓	✓
<ul style="list-style-type: none"> • Android 5.1 • Android 4.4.3 • Android 4.4.2 • Android 4.3 	✓	✓	✓	
<ul style="list-style-type: none"> • Windows 8.1 Desktop • Windows 7 		✓	✓	
<ul style="list-style-type: none"> • Mac OS X 10.10, Safari 8.x • Mac OS X 10.9.3, Safari 7.x • Mac OS X 10.8.5, Safari 6.1.x 		✓	✓	

Client Installer Service

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

- Network Connect
- Windows Secure Application Manager
- Host Checker (including Cache Cleaner)
- Pulse Collaboration
- Terminal Services

Table 11: Supported Platforms Requirements for Pulse Secure Client Installer Service

Operating System	Browsers/Java	Qualified	Compatible
Windows 10 Enterprise/ Professional/ Home, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11 • Google Chrome • Firefox 31 ESR 		✓
Windows 8.1 Update/ Professional / Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11 • Firefox 31 ESR • Google Chrome • Oracle JRE 8 	✓	
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Internet Explorer 9 • Firefox 31 ESR • Google Chrome • Oracle JRE 8 		✓
Windows 7 SP1 Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 11,10, 9 • Firefox 31 ESR • Google Chrome • Oracle JRE 7 	✓	
<ul style="list-style-type: none"> • Windows 8 basic edition / Professional, 32-bit or 64-bit • Windows 7 Ultimate / Professional / Home Basic / Home • Windows 7 SP1 Enterprise, 32-bit • Windows Vista Enterprise / Ultimate / Business / Home-Basic / Home-Premium, 32-bit or 64-bit 	<ul style="list-style-type: none"> • Internet Explorer 10 • Internet Explorer 9.0 • Internet Explorer 8.0 • Internet Explorer 7.0 • Firefox 31 ESR • Oracle JRE 7 and later 		✓

MDM Solutions

Table 12 lists the requirements for integration with mobile device management (MDM) vendors.

Table 12: MDM Vendors

Solution	Qualified	Compatible
AirWatch		
Cloud service	✓ 8.0.5.0	
Appliance OS		✓
Virtual appliance OS	✓	
MobileIron		
Cloud service	✓ Core 7.5.2 Build 32	
Appliance OS		✓
Virtual appliance OS	✓	

Platform Support for AAA

Table 13: Supported Third-Party AAA Servers

Third-Party AAA Server	Qualified	Compatible
Active Directory*	<ul style="list-style-type: none"> Windows 2012 Windows 2008 R2 	Windows 2003
LDAP using Microsoft Active Directory	<ul style="list-style-type: none"> Windows 2012 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)	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)		✓
ACE	RSA Authentication Manager 8.1	<ul style="list-style-type: none"> RSA Authentication Manager 8.0 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
Certificate	Windows 2008 R2	RSA Keon Certificate Manager 6.5.1
Certificate (other standards-compliant servers)		✓
SAML** 2.0, 1.1	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.
 **For information on the SAML SSO profiles, bindings, and protocols that we support, see Supported SAML SSO Profiles.

Third-Party Applications

Table 14: Supported Third-Party Applications

Application	Access Method	Qualified	Compatible
Outlook Web Access (OWA)			
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 2013	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 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		✓
Citrix Listed Applications With Server 6.5SP1, 6.0	Rewriter	✓	
Citrix Listed Applications With Server 6.0	Rewriter		✓
Custom ICA Client			✓
XenDesktop 7.0, 5.6,	VDI Profiles	✓	
XenDesktop 5.0	VDI Profiles		✓
VMWare			
VMWare Horizon View Server 5.3, 5.2	VDI Profiles	✓	
VMWare Horizon View Client 5.2, 5.1	VDI Profiles	✓	
VMWare View Server 4.6, 5.0	VDI Profiles		✓
VMWare View Client 4.6, 5.0			✓

Exchange ActiveSync

Office 365	Secure Mail Resource Profile	✓
Exchange 2013	Secure Mail Resource Profile	✓
Exchange 2010 SP1	Secure Mail Resource Profile	✓
Exchange 2007	Secure Mail Resource Profile	✓

Miscellaneous

WRQ web access	Java Rewriter	✓
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Changes in This Document

Table 15: Changes to This Document from the Previous Release

Section	Add	Drop or Moved	Notes
Hardware	PSA300 PSA3000 PSA5000 PSA7000c PSA7000f		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	JRE		Included support for JRE 7 & 6.
Server Support	OWA		OWA 2013SP1 and SP2 are included in support.
Server Support	Citrix Apps		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		XenDesktop 7.0 and 5.6 support is included, 5.0 is moved to compatible and 4.0 support is removed since it's an older version.
Server Support	VMware		Support for VMware 3.0 and 4.5 is removed from SPD as it's an older version.
Server Support	Windows Server 2003		Windows 2003 platforms are moved to compatible section.
Server Support	RSA Auth Manager		RSA Authentication Manager 5.x and 6.x support is moved to compatible.
Server Support	Windows IAS		Windows IAS support is moved to compatible.
Server Support	CA Siteminder		Siteminder 5.x support is moved to compatible.
Server Support	SAML		ADFS and OIF support is moved to compatible.
Browser Support	Mac OS 10.x		Added Safari version 8.0.
Cross Platform Support/Compatibility Platforms	Android		Updated Android version 5.0.
Cross Platform Support/Compatibility Platforms	IOS		Updated IOS version 8.1 and 8.0.
Cross Platform Support/Compatibility Platforms	MDM		Updated MDM server version.

Revision History

Table 16: Revision History

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