



## Pulse Connect Secure

### Supported Platforms Guide

Product Release 8.1

Document Revision 3.0  
Published: 2015-03-31

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*Pulse Connect Secure Supported Platforms Guide*

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## Introduction

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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.

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## Hardware

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You can install and use Release 8.1 software on the following platforms.

- SA2500
- SA4500
- SA6500
- SAX500 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 lists supported platforms for the administrator user interface.

Table1: Admin User Interface

Operating System	Browsers/Java	Qualified	Compatible
<b>Linux</b>			
Linux openSUSE 12.1	<ul style="list-style-type: none"> <li>Firefox 31 ESR</li> <li>Google Chrome</li> <li>Oracle JRE 8</li> </ul>		✓
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> <li>Firefox 24 ESR</li> <li>Google Chrome</li> <li>Oracle JRE7,JRE 8</li> </ul>		✓
<b>Mac</b>			
Mac OS X 10.10,10.9, 10.8, 64-bit	<ul style="list-style-type: none"> <li>Safari 7.0</li> <li>Safari 6.0</li> <li>Safari 5.1</li> <li>Oracle JRE 8</li> </ul>		✓
<b>Solaris</b>			
Solaris 10, 32-bit	Mozilla 2.0 and later		✓
<b>Windows*</b>			
<ul style="list-style-type: none"> <li>Windows 8 Enterprise, 64-bit</li> <li>Windows 7 Enterprise SP1, 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>Internet Explorer 10, 9</li> <li>Firefox 31 ESR</li> <li>Google Chrome</li> <li>Oracle JRE 8</li> </ul>	✓	
<ul style="list-style-type: none"> <li>Windows 8.1 Update/ Professional / Enterprise</li> <li>Windows 7 Ultimate / Professional / Home Basic / Home</li> </ul>	Internet Explorer 11		✓

\*On Windows 8.1, 8 platforms, the endpoint must use desktop mode and enable plug-ins in the Internet Explorer configuration.

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## Client Environment

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- Pulse Desktop Client
- Pulse Secure Mobile Client
- Pulse Secure Collaboration Client
- Windows Platform Features
- Cross-Platform Features

### Pulse Desktop Client

See the *Pulse Secure Supported Platforms Guide*.

### Pulse Secure Mobile Client

Table 2 lists supported mobile platforms for the Pulse Secure Mobile Client. See Table 3 and Table 4 for supported features for IPv6 and IPv4, respectively.

Table2: Pulse Secure Mobile Client

Mobile Operating System	Qualified	Compatible
Android	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)	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 lists the supported features for IPv6.

Table3: Supported Features for IPv6

Feature	Android	iOS	Symbian	Windows
VPN		✓		
Host Checker		✓		
ActiveSync		✓		

Table 4 lists the supported features for IPv4.

Table4: Supported Features for IPv4

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.

## Pulse Secure Collaboration Client

Table 5 lists the recommended platform requirements for Pulse Secure collaboration client.

Table5: 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.

## Windows Platform Features

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

- Windows Secure Access Manager (WSAM)
- Terminal Services

Table 6 describes the supported client environment for WSAM and Terminal Services.

Table6: Client Environment for WSAM and Terminal Services

Operating System	Browsers/Java	Qualified	Compatible
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> <li>• Internet Explorer 10</li> <li>• Firefox 31 ESR</li> <li>• Google Chrome</li> <li>• Oracle JRE 8</li> </ul>	✓	



<ul style="list-style-type: none"> <li>Windows 8.1 Update/ Professional / Enterprise</li> <li>Windows 7 Ultimate / Professional / Home Basic / Home</li> </ul>	Internet Explorer 11	✓
Windows 8 Enterprise, 32-bit	<ul style="list-style-type: none"> <li>Internet Explorer 10</li> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>	✓
Windows 8 basic edition / Professional, 32-bit or 64-bit	<ul style="list-style-type: none"> <li>Internet Explorer 10</li> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>	✓
Windows 7 Enterprise SP1, 64-bit	<ul style="list-style-type: none"> <li>Internet Explorer 10, 9</li> <li>Firefox 31 ESR</li> <li>Google Chrome</li> <li>Oracle JRE 7</li> </ul>	✓
Windows 7 Enterprise SP1, 32-bit	<ul style="list-style-type: none"> <li>Internet Explorer 10</li> <li>Internet Explorer 9.0</li> <li>Internet Explorer 8.0</li> <li>Internet Explorer 7.0</li> <li>Firefox 24 and later</li> <li>Oracle JRE 7 and later</li> </ul>	✓
Windows 7 Ultimate / Professional / Home Basic / Home, 32-bit or 64-bit	<ul style="list-style-type: none"> <li>Internet Explorer 10</li> <li>Internet Explorer 9.0</li> <li>Internet Explorer 8.0</li> <li>Internet Explorer 7.0</li> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>	✓
Windows Vista Enterprise / Home Basic / Home Premium / Professional / Ultimate, 64-bit or 32-bit	<ul style="list-style-type: none"> <li>Internet Explorer 9.0</li> <li>Internet Explorer 8.0</li> <li>Internet Explorer 7.0</li> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>	✓

## 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

Table 7 lists the windows platform requirements for the all the cross-platform features.

Table7: Windows Desktop Platform requirements for Cross-Platform Features

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

\*On Windows 8.1, 8 platforms the endpoint must use desktop mode and enable plug-ins in the Internet Explorer configuration.

Table 8 lists the non-windows platform requirements for all cross-platform features except Network Connect. See Table 9 for non-windows platform requirements for Network Connect.

Table8: Non-Windows Desktop Platform requirements for Cross-Platform Features

Operating System	Browsers/Java	Qualified	Compatible
<b>Linux</b>			
Linux Redhat Enterprise Linux 5	<ul style="list-style-type: none"> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>		✓
Linux openSUSE 12.1	<ul style="list-style-type: none"> <li>Firefox 24 ESR</li> <li>Oracle JRE 8</li> </ul>	✓	
Linux openSUSE 12.1	Google Chrome		✓
Linux openSUSE 11.x, 10.x	<ul style="list-style-type: none"> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>		✓
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> <li>Firefox 24 ESR</li> <li>Oracle JRE 8</li> </ul>	✓	
Linux Ubuntu 12.04 LTS	Google Chrome		✓
Linux Ubuntu 11.x, 10.x, 9.10	<ul style="list-style-type: none"> <li>Firefox 24 and later</li> <li>Oracle JRE 6 and later</li> </ul>		✓
<b>Mac</b>			
Mac OS 10.10,10.9	<ul style="list-style-type: none"> <li>Safari 7.0</li> <li>Oracle JRE 7</li> </ul>		✓
Mac OS X 10.10,10.8, 64-bit	<ul style="list-style-type: none"> <li>Safari 6.0, 5.1</li> <li>Oracle JRE 8</li> </ul>	✓	
Mac OS X 10.10,10.7.4, 10.6 64-bit and 32-bit	<ul style="list-style-type: none"> <li>Safari 6.0, 5.1, 5.0</li> <li>Oracle JRE 6 and later</li> </ul>		✓
Mac OS X 10.8, 32-bit	<ul style="list-style-type: none"> <li>Safari 6.0, 5.1, 5.0</li> <li>Oracle JRE 6 and later</li> </ul>		✓
<b>Solaris</b>			
Solaris 10, 32-bit	Mozilla 2.0 and later		✓
	Oracle JRE 7		✓

For Network Connect, an endpoint can run a 32-bit client on a 64-bit Linux platform. [Table 9](#) lists the non-windows platform requirements for Network Connect.



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

Table9: 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"> <li>Firefox 24 ESR</li> <li>Oracle JRE 8, 7, 6</li> <li>Iced-Tea Web 1.2 with OpenJDK 7, 6</li> </ul>	✓		
Linux Fedora 12	Google Chrome		✓	
Linux openSUSE 12.1	<ul style="list-style-type: none"> <li>Firefox 24 ESR</li> <li>Oracle JRE 8, 7, 6</li> <li>Iced-Tea Web 1.2 with OpenJDK 7, 6</li> </ul>	✓		
Linux openSUSE 12.1	Google Chrome		✓	
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> <li>Firefox 24 ESR</li> <li>Oracle JRE 8, 7, 6</li> <li>Iced-Tea Web 1.2 with OpenJDK 7, 6</li> </ul>	✓		
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"> <li>Safari 6.0, 5.1</li> <li>Oracle JRE 8</li> </ul>	✓		
Mac OS X 10.7.4, 10.6 64-bit and 32-bit	<ul style="list-style-type: none"> <li>Safari 6.0, 5.1, 5.0</li> <li>Oracle JRE 6 and later</li> </ul>		✓	
Mac OS X 10.8, 32-bit	<ul style="list-style-type: none"> <li>Safari 6.0, 5.1, 5.0</li> <li>Oracle JRE 6 and later</li> </ul>		✓	

## Platform Support for Device Onboarding

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

Table10: Device Onboarding Features

Operating System/Feature	VPN	Certificate	Wifi	Secure Email
<ul style="list-style-type: none"> <li>iOS 7.1.1, 64-bit and 32-bit</li> <li>iOS 7.1</li> <li>iOS 6.1.x</li> </ul>	✓	✓	✓	✓
<ul style="list-style-type: none"> <li>Android 4.4.3</li> <li>Android 4.4.2</li> <li>Android 4.3</li> </ul>	✓	✓	✓	

Windows 8.1 Desktop	✓	✓
Windows 7		
Mac OS X 10.9.3, Safari 7.x	✓	✓
Mac OS X 10.8.5, Safari 6.1.x		

## Client Installer Service

Juniper 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 lists supported platform requirements for the Pulse Secure client installer service.

Table11: Pulse Secure client installer service

Operating System	Browsers/Java	Qualified	Compatible
Windows 8.1 Update/ Professional / Enterprise, 64-bit	<ul style="list-style-type: none"> <li>• Internet Explorer 11</li> <li>• Firefox 24 ESR</li> <li>• Google Chrome</li> <li>• Oracle JRE 8</li> </ul>		✓
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> <li>• Internet Explorer 10</li> <li>• Internet Explorer 9</li> <li>• Firefox 24 ESR</li> <li>• Google Chrome</li> <li>• Oracle JRE 8</li> </ul>	✓	
Windows 7 SP1 Enterprise, 64-bit	<ul style="list-style-type: none"> <li>• Internet Explorer 11,10, 9</li> <li>• Firefox 24 ESR</li> <li>• Google Chrome</li> <li>• Oracle JRE 7</li> </ul>	✓	
<ul style="list-style-type: none"> <li>• Windows 8 basic edition / Professional, 32-bit or 64-bit</li> <li>• Windows 7 Ultimate / Professional / Home Basic / Home</li> <li>• Windows 7 SP1 Enterprise, 32-bit</li> <li>• Windows Vista Enterprise / Ultimate / Business / Home-Basic / Home-Premium, 32-bit or 64-bit</li> </ul>	<ul style="list-style-type: none"> <li>• Internet Explorer 10</li> <li>• Internet Explorer 9.0</li> <li>• Internet Explorer 8.0</li> <li>• Internet Explorer 7.0</li> <li>• Firefox 24 and later</li> <li>• Oracle JRE 6 and later</li> </ul>		X

## MDM Solutions

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

Table12: MDM Vendors

Solution	Qualified	Compatible
<b>AirWatch</b>		
Cloud service	✓	
	6.5.0.0	
Appliance OS		✓
Virtual appliance OS	✓	
<b>MobileIron</b>		
Cloud service	✓	
	VSP 5.8.0	
Appliance OS		✓
Virtual appliance OS	✓	

## Platform Support for AAA

Table 13 lists supported third-party AAA servers.

Table13: Third-Party AAA Servers

Third-Party AAA Server	Qualified	Compatible
Active Directory*	<ul style="list-style-type: none"> <li>Windows 2012</li> <li>Windows 2008 R2</li> </ul>	<ul style="list-style-type: none"> <li>Windows 2003</li> <li>Windows 2012 R2</li> </ul>
LDAP using Microsoft Active Directory	<ul style="list-style-type: none"> <li>Windows 2012</li> <li>Windows 2008 R2</li> </ul>	<ul style="list-style-type: none"> <li>Windows 2003</li> <li>Windows 2012 R2</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 (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> </ul>	<ul style="list-style-type: none"> <li>Windows IAS 2008</li> </ul>
RADIUS (other standards-compliant servers)		✓

ACE	<ul style="list-style-type: none"> <li>• RSA Authentication Manager 7.1 SP4</li> </ul>	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>• CA Siteminder 5.5</li> </ul>
Certificate	<ul style="list-style-type: none"> <li>• Windows 2008 R2</li> </ul>	<ul style="list-style-type: none"> <li>• RSA Keon Certificate Manager 6.5.1</li> </ul>
Certificate (other standards-compliant servers)		✓
SAML** 2.0, 1.1	<ul style="list-style-type: none"> <li>• PingFederate 6.4.1.1</li> </ul>	<ul style="list-style-type: none"> <li>• Microsoft ADFS 2.0 (Server 2008 R2)</li> <li>• Oracle Identity Federation 11.1.1.2.0</li> </ul>
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 lists supported third-party applications.

Table14: Third-Party Applications

Application	Access Method	Qualified	Compatible
<b>Outlook Web Access (OWA)</b>			
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)		✓
<b>Sharepoint</b>			
Sharepoint 2013	Web Profiles (Rewriter, Passthrough Proxy)	✓	
Sharepoint 2010	Web Profiles (Rewriter, Passthrough Proxy)	✓	
Sharepoint 2007	Web Profiles (Rewriter, Passthrough Proxy)		✓
<b>IBM Domino</b>			
Lotus iNotes 8.5.3	Web Profiles (Rewriter, Passthrough Proxy)	✓	
Lotus Connect 3.0, 2.5	Rewriter	✓	
<b>Citrix</b>			
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		✓
<b>VMWare</b>			
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 4.6, 5.0	VDI Profiles	✓
<b>Exchange ActiveSync</b>		
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	✓
<b>Miscellaneous</b>		
WRQ web access	Java Rewriter	✓

## Revision History

Table 15 lists the revision history for this document.

Table15: Revision History

Revision	Description
01/Dec 15, 2015	Initial publication
02/Feb 16, 2015	Corrected entry for Non-Windows Desktop Platform requirements for Cross-Platform features
03/Mar 03,2015	Updated Third-Party AAA Servers