

Junos Pulse Secure Access Service Supported Platforms Guide

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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.

Juniper supports all items listed as qualified or compatible.

Administrator Web User Interface

Table 1 on page 3 lists supported platforms for the administrator user interface.

Table 1: Admin User Interface

Operating System	Browsers/Java	Qualified	Compatible
Linux			
Linux openSUSE 12.1	<ul style="list-style-type: none"> Firefox 24 ESR Google Chrome Oracle JRE 7 		X
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> Firefox 24 ESR Google Chrome Oracle JRE 7 		X
Mac			
Mac OS X 10.9, 10.8, 10.7, 64-bit	<ul style="list-style-type: none"> Safari 7.0 Safari 6.0 Safari 5.1 Oracle JRE 7 		X
Solaris			
Solaris 10, 32-bit	Mozilla 2.0 and later		X
Windows*			
<ul style="list-style-type: none"> Windows 8 Enterprise, 64-bit Windows 7 Enterprise SP1, 64-bit 	<ul style="list-style-type: none"> Internet Explorer 10, 9 Firefox 24 ESR Google Chrome Oracle JRE 7 	X	
<ul style="list-style-type: none"> Windows 8.1 Professional / Enterprise Windows 7 Ultimate / Professional / Home Basic / Home 	Internet Explorer 11		X

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

Client Environment

- [Junos Pulse Mobile Client on page 4](#)
- [Junos Pulse Collaboration Clients on page 5](#)
- [Windows Platform Features on page 6](#)
- [Cross-Platform Features on page 9](#)

Junos Pulse Mobile Client

[Table 2 on page 4](#) lists supported mobile platforms for the Junos Pulse mobile client. See [Table 3 on page 4](#) and [Table 4 on page 4](#) for supported features for IPv6 and IPv4, respectively.

Table 2: Junos Pulse Mobile Client

Mobile Operating System	Qualified	Compatible
Android	4.3, 4.2, 4.1, and 2.3.5	4.0, 3.0
iOS (iPhone , iPad, and iPod)	7.0, 6.0	

[Table 3 on page 4](#) lists the supported features for IPv6.

Table 3: Supported Features for IPv6

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

[Table 4 on page 4](#) lists the supported features for IPv4.

Table 4: Supported Features for IPv4

Feature	Android	iOS	Symbian	Windows
VPN	X (ICS*)	X	X (Only rewriting)	X (WSAM)
Security (MSS)	X		X	X
Host Checker	X	X		
Secure Meeting		X		No
Active Sync	X	X	X	X

Table 4: Supported Features for IPv4 (*continued*)

Feature	Android	iOS	Symbian	Windows
Rewriting	X	X	X	X

*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.

Junos Pulse Collaboration Clients

Table 5 on page 5 lists the recommended platform requirements for Junos Pulse collaboration client.

Table 5: Junos Pulse 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: Junos Pulse 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 Junos Pulse Secure Access Service supports the following features on Windows platforms:

- Windows Secure Access Manager (WSAM)
- Terminal Services
- Secure Virtual Workspace
- Enhanced Endpoint Security

[Table 6 on page 6](#) describes the supported client environment for WSAM and Terminal Services.

Table 6: Client Environment for WSAM and Terminal Services

Operating System	Browsers/Java	Qualified	Compatible
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 24 ESR • Google Chrome • Oracle JRE 7 	X	
<ul style="list-style-type: none"> • Windows 8.1 Professional / Enterprise • Windows 7 Ultimate / Professional / Home Basic / Home 	Internet Explorer 11		X
Windows 8 Enterprise, 32-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 3.0 and later, including Firefox 10 • Oracle JRE 6 and later 		X
Windows 8 basic edition / Professional, 32-bit or 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10 • Firefox 3.0 and later, including Firefox 10 • Oracle JRE 6 and later 		X
Windows 7 Enterprise SP1, 64-bit	<ul style="list-style-type: none"> • Internet Explorer 10, 9 • Firefox 24 ESR • Google Chrome • Oracle JRE 7 	X	
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 10 • Oracle JRE 7 and later 		X

Table 6: Client Environment for WSAM and Terminal Services (*continued*)

Operating System	Browsers/Java	Qualified	Compatible
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 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X
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 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X
Windows XP SP3 Home Edition / Professional, 32-bit	<ul style="list-style-type: none"> Internet Explorer 9.0 Internet Explorer 8.0 Internet Explorer 7.0 Firefox 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X

Table 7 on page 7 describes the supported client environment for Secure Virtual Workspace (SVW). SVW is not supported on Windows 8, Mac, or Linux.

Table 7: Client Environment for Secure Virtual Workspace

Operating System	Browsers/Java	Qualified	Compatible	Not Supported
Windows 7 Enterprise, 32-bit or 64-bit	Internet Explorer 9	X		
Windows 7 Ultimate / Professional / Home Basic / Home Premium, 64-bit	Internet Explorer 11, 10, Google Chrome			X
Windows 8 basic edition / Professional / Enterprise, 32-bit or 64-bit				X
<ul style="list-style-type: none"> Windows 8.1 Professional / Enterprise Windows 7 Ultimate / Professional / Home Basic / Home / Enterprise, 32-bit or 64-bit 	Internet Explorer 11			X
Mac				X
Linux				X

Table 8 on page 8 describes the supported client environment for Enhanced Endpoint Security (EES). EES is not supported on Windows 8.

Table 8: Supported Client Environment for Enhanced Endpoint Security

Operating System	Browsers/Java	Qualified	Compatible	Not Supported
Windows 7, 64-bit	Internet Explorer 10		X	
Windows 7, 32-bit	Internet Explorer 9		X	
Windows 8 basic edition / Professional / Enterprise, 32-bit or 64-bit				X

Cross-Platform Features

The Junos Pulse Secure Access Service 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 9 on page 9](#) lists the endpoint requirements for the cross-platform features, except Network Connect.

[Table 10 on page 11](#) lists more particular requirements for Network Connect.

Table 9: Desktop Platforms for Cross-Platform Features

Operating System	Browsers/Java	Qualified	Compatible
Linux			
Linux Redhat Enterprise Linux 5	<ul style="list-style-type: none"> • Firefox 3.0 and later • Oracle JRE 6 and later 		X
Linux openSUSE 12.1	<ul style="list-style-type: none"> • Firefox 24 ESR • Oracle JRE 7 	X	
Linux openSUSE 12.1	Google Chrome		X
Linux openSUSE 11.x, 10.x	<ul style="list-style-type: none"> • Firefox 3.0 and later • Oracle JRE 6 and later 		X
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> • Firefox 24 ESR • Oracle JRE 7 	X	
Linux Ubuntu 12.04 LTS	Google Chrome		X
Linux Ubuntu 11.x, 10.x, 9.10	<ul style="list-style-type: none"> • Firefox 3.0 and later, including Firefox 10 • Oracle JRE 6 and later 		X
Mac			

Table 9: Desktop Platforms for Cross-Platform Features (*continued*)

Operating System	Browsers/Java	Qualified	Compatible
Mac OS 10.9	<ul style="list-style-type: none"> Safari 7.0 Oracle JRE 7 		X
Mac OS X 10.8, 64-bit	<ul style="list-style-type: none"> Safari 6.0, 5.1 Oracle JRE 7 	X	
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 		X
Mac OS X 10.8, 10.7, 32-bit	<ul style="list-style-type: none"> Safari 6.0, 5.1, 5.0 Oracle JRE 6 and later 		X
Solaris			
Solaris 10, 32-bit	Mozilla 2.0 and later		X
Windows*			
Windows 8.1 Professional / Enterprise, 64-bit	<ul style="list-style-type: none"> Internet Explorer 11 Firefox 24 ESR Google Chrome Oracle JRE 7 		X
Windows 8 Enterprise, 64-bit	<ul style="list-style-type: none"> Internet Explorer 10 Firefox 24 ESR Google Chrome Oracle JRE 7 	X	
Windows 8 Enterprise, 32-bit	<ul style="list-style-type: none"> Internet Explorer 10 Firefox 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X
Windows 8 basic edition / Professional, 32-bit or 64-bit	<ul style="list-style-type: none"> Internet Explorer 10 Firefox 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X
Windows 7 Enterprise SP1, 64-bit	<ul style="list-style-type: none"> Internet Explorer 11,10, 9 Firefox 24 ESR Google Chrome Oracle JRE 7 	X	
Windows 7 Enterprise SP1, 32-bit	<ul style="list-style-type: none"> Internet Explorer 11,10, 9, 8, 7 Firefox 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X

Table 9: Desktop Platforms for Cross-Platform Features (*continued*)

Operating System	Browsers/Java	Qualified	Compatible
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 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X
Windows XP SP3 Home / Professional, 32-bit	<ul style="list-style-type: none"> Internet Explorer 9, 8, 7 Firefox 3.0 and later, including Firefox 10 Oracle JRE 6 and later 		X

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

For Network Connect, an endpoint can run a 32-bit client on a 64-bit Linux platform. [Table 10 on page 11](#) lists the requirements for Network Connect.



NOTE: Note that Network Connect is not supported on Mac 10.9.

Table 10: Network Connect

Operating System	Browsers/Java	Qualified	Compatible
Linux Fedora 12	<ul style="list-style-type: none"> Firefox 24 ESR Oracle JRE 7, 6 Iced-Tea Web 1.2 with OpenJDK 7, 6 	X	
Linux Fedora 12	Google Chrome		X
Linux openSUSE 12.1	<ul style="list-style-type: none"> Firefox 24 ESR Oracle JRE 7, 6 Iced-Tea Web 1.2 with OpenJDK 7, 6 	X	
Linux openSUSE 12.1	Google Chrome		X
Linux Ubuntu 12.04 LTS	<ul style="list-style-type: none"> Firefox 24 ESR Oracle JRE 7, 6 Iced-Tea Web 1.2 with OpenJDK 7, 6 	X	
Linux Ubuntu 12.04 LTS	Google Chrome		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 on page 12 lists supported platform requirements for the Junos Pulse client installer service.

Table 11: Junos Pulse Client Installer Service

Operating System	Browsers/Java	Qualified	Compatible
<ul style="list-style-type: none"> • Windows 8 Enterprise, 64-bit • Windows 7 SP1 Enterprise, 64-bit 	<ul style="list-style-type: none"> • Internet Explorer 10 • Internet Explorer 9 • Firefox 24 ESR • Google Chrome • Oracle JRE 7 	X	
<ul style="list-style-type: none"> • Windows 8 basic edition / Professional, 32-bit or 64-bit, 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 3.0 and later, including Firefox 10 • Oracle JRE 6 and later 		X
Windows XP with SP3, 32-bit	<ul style="list-style-type: none"> • Internet Explorer 9.0 • Internet Explorer 8.0 • Internet Explorer 7.0 • Firefox 3.0 and later, including Firefox 10 • Oracle JRE 6 and later 		X

MDM Solutions

Table 12 on page 13 lists the requirements for integration with mobile device management (MDM) vendors.

Table 12: MDM Vendors

Solution	Qualified	Compatible
AirWatch		
Cloud service	X 6.5.0.0	
Appliance OS		X
Virtual appliance OS	X	
MobileIron		
Cloud service	X VSP 5.8.0	
Appliance OS		X
Virtual appliance OS	X	

Platform Support for AAA

Table 13 on page 13 lists supported third-party AAA servers.

Table 13: 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)		X Authentication only

Table 13: Third-Party AAA Servers (*continued*)

Third-Party AAA Server	Qualified	Compatible
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 	
Certificate	<ul style="list-style-type: none"> Windows 2008 R2 RSA Keon Certificate Manager 6.5.1 	
Certificate (other standards-compliant servers)		X
SAML** 2.0, 1.1	<ul style="list-style-type: none"> Microsoft ADFS 2.0 (Server 2008 R2) Oracle Identity Federation 11.1.1.2.0 PingFederate 6.4.1.1 	
SAML 2.0, 1.1 (other standards-compliant servers)		X
*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 on page 15 lists supported third-party applications.

Table 14: Third-Party Applications

Application	Access Method	Qualified	Compatible
Outlook Web Access (OWA)			
OWA 2013	Web Profiles (Rewriter, Passthrough Proxy)	X	
OWA 2010	Web Profiles (Rewriter, Passthrough Proxy)		X
OWA 2010 SPI	Web Profiles (Rewriter, Passthrough Proxy)	X	
OWA 2007	Web Profiles (Rewriter, Passthrough Proxy)		X
Sharepoint			
Sharepoint 2010	Web Profiles (Rewriter, Passthrough Proxy)	X	
Sharepoint 2007	Web Profiles (Rewriter, Passthrough Proxy)		X
IBM Domino			
Lotus iNotes 8.5.3	Web Profiles (Rewriter, Passthrough Proxy)	X	
Lotus Connect 3.0, 2.5	Rewriter	X	
Citrix			
Citrix Web Interface 5.4	Web Profiles (Rewriter, JSAM, and WSAM)	X	
Citrix Web Interface 4.5	Web Profiles (Rewriter, JSAM, and WSAM)		X
Citrix Program Neighborhood Agent with Citrix Server 6.0	JSAM, WSAM		X
Citrix Listed Applications With Server 6.5	Rewriter	X	
Citrix Listed Applications With Server 6.0, 5.0	Rewriter		X
Custom ICA Client			X
XenDesktop 5.6	VDI Profiles	X	
XenDesktop 5.0, 4.0	VDI Profiles		X
VMWare			
VMWare 4.6, 5.0	VDI Profiles	X	

Table 14: Third-Party Applications (*continued*)

Application	Access Method	Qualified	Compatible
VMWare 4.5, 3.0	VDI Profiles		X
Exchange ActiveSync			
Office 365	Secure Mail Resource Profile	X	
Exchange 2013	Secure Mail Resource Profile	X	
Exchange 2010 SP1	Secure Mail Resource Profile	X	
Exchange 2007	Secure Mail Resource Profile		X
Miscellaneous			
WRQ web access	Java Rewriter		X