



# Pulse Connect Secure Supported Platforms Guide

PCS 9.0R4

Build 64055

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|                  |                     |
|------------------|---------------------|
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# Revision History

Table 1 lists the revision history for this document.

| Revision        | Description                     |
|-----------------|---------------------------------|
| April 2019      | 9.0R4 Updates                   |
| December 2018   | 9.0R3 Updates                   |
| August 2018     | 9.0R2 Updates                   |
| April, 2018     | 9.0R1 Updates                   |
| 05 June 2017    | 8.3R2 Updates                   |
| 02/04 Sep 2015  | Revised with a new SPG template |
| 01/03 July 2015 | Initial publication.            |

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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 9.0 software on the following platforms.

- PSA300
- PSA3000
- PSA5000
- PSA7000f
- PSA7000c
- Virtual Appliances (PSA-V) on ESXi, KVM, Hyper-V, Microsoft Azure, AWS.

# Client Environment Contents

- [Windows Supported Platforms](#)
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You can install and use Release 9.0 software on the following platforms.

## Windows Supported Platforms

Table 2 Lists supported windows platforms vs PCS features:

| Windows Platform   | Admin UI | BYOD | Cross Platform Features | Host Checker | Network Connect | Pulse Secure Application Launcher | Pulse Secure Installer Service | Windows Secure Application Manager | Terminal Services |
|--|----------|------|-------------------------|--------------|-----------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|
| <b>Windows-10 Redstone 5 OS Build 1809 Version 10.0.17763.316, 64-bit</b><br>Internet Explorer 11, Edge, Google Chrome 61, Firefox ESR 60, Oracle JRE 8, 9 and 10 update 144         | C        | C    | C                       | C            | C               | C <sup>②</sup>                    | C                              | C <sup>③</sup>                     | C                 |
| <b>Windows-10 Redstone 5 OS Build 1809 Version 10.0.17763.134, 64-bit</b><br>Internet Explorer 11, Edge, Google Chrome 61, Firefox ESR 60, Oracle JRE 8, 9 and 10 update 144         | Q        | Q    | Q                       | Q            | Q               | Q <sup>②</sup>                    | Q                              | Q <sup>③</sup>                     | Q                 |
| <b>Windows-10 Redstone 4 OS Build 1803 Version 10.0.17134, 64-bit</b><br>Internet Explorer 11, Edge, Google Chrome 61, Firefox 52 ESR, Oracle JRE 8 update 144                       | C        | C    | C                       | C            | C               | C                                 | C                              | C                                  | C                 |
| <b>Windows-10 Redstone 3 OS Build 1709, Version 10.0.16299.15, 64-bit</b><br>Internet Explorer 11, Edge, Google Chrome 61, Firefox 52 ESR, Oracle JRE 8 update 144                   | C        | C    | C                       | C            | C               | C                                 | C                              | C                                  | C                 |
| <b>Windows 10 RedStone-2 Enterprise/Pro/Home, Build 1703 Version 10.0.15063.332, 64-bit</b><br>Internet Explorer 11, Edge, Google Chrome 58, Firefox 52 ESR, Oracle JRE 8 update 131 | C        | C    | C                       | C            | C               | C                                 | C                              | C                                  | C                 |



| Windows Platform  | Admin UI | BYOD | Cross Platform Features | Host Checker | Network Connect | Pulse Secure Application Launcher | Pulse Secure Installer Service | Windows Secure Application Manager | Terminal Services |
|---|----------|------|-------------------------|--------------|-----------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|
| <b>Windows 10 Enterprise/Pro/Home</b><br>Internet Explorer 11, Edge<br>Google Chrome<br>Firefox 52 ESR.<br>Oracle JRE 8   | C        | C    | C                       | C            | C               | C                                 | C                              | C                                  | C                 |
| <b>Windows 8.1 Update/ Professional / Enterprise, 64-bit</b><br>Internet Explorer 11, Google Chrome & Firefox 52 ESR.<br>Oracle JRE 8   | Q        | Q    | Q                       | Q            | Q               | Q <sup>②</sup>                    | Q                              | Q                                  | Q                 |
| <b>Windows 8.1 Update/ Professional / Enterprise, 32-bit</b><br>Internet Explorer 11, Google Chrome & Firefox 38 ESR.<br>Oracle JRE 8   | C        | C    | C                       | C            | C               | C <sup>②</sup>                    | C                              | C                                  | C                 |
| <b>Windows 8 Basic edition / Professional/ Enterprise, 32-bit &amp; 64-bit</b><br>Internet Explorer 10, Google Chrome and Firefox 31 & late.<br>Oracle JRE 7 and later                                    | C        | C    | C                       | C            | C               | C <sup>②</sup>                    | C                              | C                                  | C                 |
| <b>Windows 7 Enterprise SP1, 64-bit</b><br>Internet Explorer 11, Google Chrome & Firefox 52 ESR.<br>Oracle JRE 8  | Q        | Q    | Q                       | Q            | Q               | Q <sup>②</sup>                    | Q                              | Q                                  | Q                 |
| <b>Windows 7 Ultimate / Professional / Home Basic / Home, 32-bit or 64-bit<br/>Windows 7 Enterprise (32-bit)</b><br>Internet Explorer 11, Google Chrome & Firefox 31 and later.<br>Oracle JRE 7 and later | C        | C    | C                       | C            | C               | C <sup>②</sup>                    | C                              | C                                  | C                 |

| Windows Platform                                      | Admin UI               | BYOD | Cross Platform Features | Host Checker | Network Connect | Pulse Secure Application Launcher | Pulse Secure Installer Service | Windows Secure Application Manager | Terminal Services |
|---|------------------------|------|-------------------------|--------------|-----------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|
| Windows 7 Enterprise SP1, 64-bit                      |                        |      |                         |              |                 |                                   |                                |                                    |                   |
| Windows 8.1 Update/ Professional / Enterprise, 64-bit | Firefox 52 ESR, 32-bit | C    | C                       | C            | -               | C                                 | -                              | C                                  | C                 |
| Windows 10 Enterprise/Pro/Home                        | Oracle JRE 8           |      |                         |              |                 |                                   |                                |                                    |                   |

**Note:** Network Connect Support EOL from 8.3R1 onwards on MAC platforms.

**Note:** On RS5 client, WSAM behavior is not consistent, i.e. at times when WSAM is launched, the traffic for the configured resources is not SAMized. As a workaround, use Pulse SAM.

## Mac OS Supported Platforms

Table 3 lists supported Mac OS platforms vs PCS features:

| Mac OS Platform                  | Admin UI   | BYOD | Cross Platform Features | Host Checker | Network Connect | Pulse Secure Application Launcher | Pulse Secure Installer Service | Windows Secure Application Manager | Terminal Services |
|----------------------------------|--|------|-------------------------|--------------|-----------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|
| Mac OS Mojave Version 10.14      | Safari 12.0<br>Chrome 61,<br>Oracle JRE,<br>JDK 8, 9 and<br>10 | Q    | Q                       | Q            | Q               | -                                 | Q                              | -                                  | -                 |
| Mac OS High Sierra Version 10.13 | Safari 11.0<br>Oracle JRE,<br>JDK 8, 9 and<br>10               | Q    | Q                       | Q            | Q               | -                                 | Q                              | -                                  | -                 |
| Mac OS X 10.12                   | Safari 10.1<br>Safari 9.0<br>Oracle JRE 8                      | C    | Q                       | Q            | Q               | -                                 | Q                              | -                                  | -                 |
| Mac OS X 10.10, 10.11            | Safari 10.1<br>Safari 8.0<br>Oracle JRE 8                      | C    | C                       | C            | C               | -                                 | C                              | -                                  | -                 |
| Mac OS X 10.9                    | Safari 9.1.3<br>Safari 9.0,<br>Safari 7.0<br>Oracle JRE 8      | C    | C                       | C            | C               | -                                 | -                              | -                                  | -                 |
| Mac OS X 10.8                    | Safari 6.2.8<br>Safari 6.0<br>Oracle JRE 8                     | C    | C                       | C            | C               | C                                 | -                              | -                                  | -                 |

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

 **Note:** Network Connect Support EOL from 8.3R1 onwards on MAC platforms.

## Linux Supported Platforms

Table 4 lists supported Linux platforms vs PCS features:

| Linux Platform   | Admin UI | BYOD | Cross Platform Features | Host Checker | Network Connect | Pulse Secure Application Launcher | Pulse Secure Installer Service | Windows Secure Application Manager | Terminal Services | Pulse Secure Linux  |
|--|----------|------|-------------------------|--------------|-----------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|---|
| Ubuntu 16.04 LTS<br>Firefox 52, ESR, 64-bit                  | -        | -    | -                       | C            | Q               | -                                 | -                              | -                                  | -                 | Q   |
| Ubuntu 15.04<br>Firefox 52, ESR, 64-bit                      | -        | -    | -                       | C            | C               | -                                 | -                              | -                                  | -                 | Q   |
| Ubuntu 14.04 LTS<br>Firefox 52, ESR, 64-bit                  | C        | -    | Q                       | Q            | Q               | -                                 | -                              | -                                  | -                 | Q   |
| Ubuntu 12.04 LTS, 11.x, 10.x, 9.10<br>Oracle JRE 7 and later | C        | -    | C                       | C            | C               | -                                 | -                              | -                                  | -                 | C   |
| RHEL 5<br>Firefox 52 ESR, 32-bit                             | C        | -    | C                       | C            | C               | C                                 | -                              | -                                  | -                 | C   |
| RHEL 7<br>Firefox 52 ESR, 64-bit                             | -        | -    | -                       | C            | Q               | -                                 | -                              | -                                  | -                 | Q   |
| Fedora 23 (32 bit)<br>Firefox 52 ESR 32-bit                  | -        | -    | -                       | C            | C               | -                                 | -                              | -                                  | -                 | Q<br>(Pulse Secure Linux does not support browser launch) |

| Linux Platform     | Admin UI                  | BYOD | Cross Platform Features | Host Checker | Network Connect | Pulse Secure Application Launcher | Pulse Secure Installer Service | Windows Secure Application Manager | Terminal Services | Pulse Secure Linux                                     |
|--------------------|---------------------------|------|-------------------------|--------------|-----------------|-----------------------------------|--------------------------------|------------------------------------|-------------------|--|
| Fedora 23 (64 bit) | Firefox 52 ESR 64-bit     |      |                         | C            | Q               |                                   |                                |                                    |                   | Q (Pulse Secure Linux does not support browser launch) |
| CentOS 6.4         | Firefox 52, 32-bit/64-bit | -    | -                       | C            | Q               | -                                 | -                              | -                                  |                   | C  |
| CentOS 7.0         | Firefox 52, 64-bit        | -    | -                       |              | 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)
- Premier Java Applet
- Pulse Collaboration
- Secure Terminal Access
- Web Browsing

## Network Connect Notes

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

## Pulse Secure Application Launcher (PSAL) Support

Pulse Connect Secure 8.2R1 introduced a new mechanism, "Pulse Secure Application Launcher" (PSAL), for launching and installing Pulse Secure clients from a web browser which have deprecated Java Plugin, ActiveX technologies and

have restrictions on Java.

 **Note:**

- Supported on Mozilla Firefox, Google Chrome & Edge Browser on Windows Platform.
- Supported on Safari 12 on Mac OS High Sierra 10.13 and Mac OS Mojave 10.14

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
- Terminal Services – Premiere JAVA Applet (HOB Applet)
- Java Secure Application Manager


## Pulse Desktop Client

See the Pulse Secure Desktop Client Supported Platforms Guide

## Pulse Secure Collaboration Client Recommendations

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

| Component                 | Requirements  |
|---------------------------|---|
| <b>CPU</b>                | 1 GHz or more for Windows Client.<br>1 GHz G4 or Intel processor for a Mac.                 |
| <b>Memory</b>             | 256 MB of available RAM or more.  |
| <b>Color Quality</b>      | For best results, use 16 bits.<br>8 bits, 16 bits, 24 bits, and 32 bits are also supported. |
| <b>Monitor Resolution</b> | 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 6 lists supported mobile platforms for the Pulse Secure Mobile Client.

| Mobile Platforms  | Active Sync | Host Checker | HTML5 RDP | VPN | Pulse Collaboration | Rewriter |
|---|-------------|--------------|-----------|-----|---------------------|----------|
| <b>Android</b><br>Android 7.0 and 6.0   | Q           | Q            | Q         | Q   | -                   | -        |
| <b>Android</b><br>5.1.1, 4.4.4, 4.4.3,<br>4.4.2 and 4.3   | C           | C            | C         | C   | -                   | -        |
| <b>IOS</b><br>iOS 10.2.1, 9.3.5, 64-bit   | Q           | Q            | Q         | Q   | C                   | -        |
| <b>IOS</b><br>iOS 8.4.2 64-bit<br>iOS 7.1.2 64-bit & 32-bit<br>iOS 7.1 and 6.x 64-bit<br>and 32-bit | C           | C            | Q         | C   | C                   | -        |
| <b>Windows Phone</b><br>8.1   | Q           | -            | -         | -   | -                   | C        |

## Platform Support for Device Onboarding

Table 7: 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"> <li>iOS 10.x and 11.0, 64-bit</li> </ul>   | Q   | Q           | Q    | Q            |
| <ul style="list-style-type: none"> <li>IOS 9.x</li> <li>iOS 8.3 64-bit</li> <li>iOS 7.1.2 64-bit &amp; 32-bit</li> <li>iOS 7.1 and 6.x 64-bit and 32-bit</li> </ul> | C   | C           | C    | C            |
| <ul style="list-style-type: none"> <li>Android 6.0.1 and 5.1.1</li> </ul>   | Q   | Q           | Q    | -            |
| <ul style="list-style-type: none"> <li>Android 4.4.4, 4.4.3, 4.4.2 and 4.3</li> </ul>   | C   | C           | C    | -            |
| <ul style="list-style-type: none"> <li>Windows 10</li> <li>Windows 8.1</li> <li>Windows 7</li> </ul>  | -   | Q           | Q    | -            |

| Operating System/Feature   | VPN | Certificate | WiFi | Secure Email |
|--|-----|-------------|------|--------------|
| <ul style="list-style-type: none"> <li>Mac OS X 10.12, Safari 9.0 &amp; Safari 10.0</li> <li>Mac OS X 10.10.5, Safari 8.0.8</li> <li>Mac OS X 10.9.5 Safari 7.0.x</li> </ul> | -   | Q           | Q    | -            |
| <ul style="list-style-type: none"> <li>Mac OS X 10.8.5, Safari 7.0.x and 6.0.x</li> </ul>  | -   | C           | C    | -            |

## MDM Solutions

Table 8: MDM Vendors - Lists the requirements for integration with mobile device management (MDM) vendors.

| Solution               | Qualified                  | Compatible |
|------------------------|----------------------------|------------|
| <b>AirWatch</b>        |                            |            |
| Cloud service          | ✓<br>8.4.7.0               |            |
| Appliance OS           |                            | ✓          |
| Virtual appliance OS   | ✓                          |            |
| <b>MobileIron</b>      |                            |            |
| Cloud service          | ✓<br>Core 9.1.1.0 Build 29 |            |
| Appliance OS           |                            | ✓          |
| Virtual appliance OS   | ✓                          |            |
| <b>Pulse Workspace</b> |                            |            |
| Cloud service          | ✓<br>1.8.0-1628            |            |

## Platform Support for AAA

Table 9: Third-Party AAA Servers - Lists supported third-party AAA servers.

| Third-Party AAA Server                | Qualified   | Compatible   |
|---------------------------------------|---|--|
| Active Directory*                     | <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2**</li> </ul> | Windows Server 2008 R2<br>Windows Server 2003      |
| LDAP using Microsoft Active Directory | <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> </ul>   | Windows Server 2008 R2<br>Windows Server 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                       |

| Third-Party AAA Server                            | Qualified   | Compatible   |
|---|---|--|
| LDAP (other standards-compliant servers)          | <ul style="list-style-type: none"> <li>OpenLDAP 2.3.27</li> </ul>   | ✓<br>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>Defender 5.2</li> <li>RSA Authentication Manager 8.3</li> </ul> | Azure MFA Radius<br>Windows IAS 2008   |
| RADIUS IPv6 Support                               | <ul style="list-style-type: none"> <li>Steel-Belted RADIUS (SBR) 6.1</li> </ul>   | <ul style="list-style-type: none"> <li>Windows NPS 2012 R2</li> <li>Free-RADIUS 2.1</li> </ul>   |
| RADIUS (other standards-compliant servers)        |   | ✓  |
| ACE   | <ul style="list-style-type: none"> <li>RSA Authentication Manager 8.3</li> <li>RSA Authentication Manager 8.2</li> </ul>                      | <ul style="list-style-type: none"> <li>RSA Authentication Manager 8.1</li> <li>RSA Authentication Manager 8.0 SP4</li> </ul>                           |
| Siteminder  | <ul style="list-style-type: none"> <li>CA Siteminder 12.7</li> <li>CA Siteminder 12.52 SP1</li> <li>CA Siteminder 12.0 SP3</li> </ul>         | <ul style="list-style-type: none"> <li>CA Siteminder 5.5</li> <li>CA Siteminder 6.0 SP4</li> </ul>   |
| Certificate                                       | <ul style="list-style-type: none"> <li>Windows 2008 R2</li> <li>Windows 2012 R2</li> </ul>  | RSA Keon Certificate Manager 6.5.1   |
| 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>Azure AD</li> <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 section in the [PCS Administration Guide](#).  
 \*\* 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 section in the [PCS Administration Guide](#).

## Third-Party Applications

Table 10: Third-Party Applications - Lists supported third-party applications

| Application                     | Support Summary                            | Qualified | Compatible |
|---------------------------------|--|-----------|------------|
| <b>Outlook Web Access (OWA)</b> |  |           |            |
| OWA 2016                        | Web Profiles (Rewriter, Passthrough Proxy) | ✓         |            |
| OWA 2013 SP1                    | Web Profiles (Rewriter, Passthrough Proxy) | ✓         |            |
| OWA 2010 SP2, SP1               | Web Profiles (Rewriter, Passthrough Proxy) |           | ✓          |



| Application  | Support Summary                            | Qualified | Compatible |
|--|--|-----------|------------|
| OWA 2007   | Web Profiles (Rewriter, Passthrough Proxy) |           | ✓          |
| <b>SharePoint</b>  |  |           |            |
| SharePoint 2016  | Web Profiles (Rewriter, Passthrough Proxy) | ✓         |            |
| SharePoint 2013 SP1  | Web Profiles (Rewriter, Passthrough Proxy) | ✓         |            |
| SharePoint 2010, 2007  | Web Profiles (Rewriter, Passthrough Proxy) |           | ✓          |
| <b>IBM Domino</b>  |  |           |            |
| Lotus iNotes 9.0   | Web Profiles (Rewriter, Passthrough Proxy) | ✓         |            |
| Lotus iNotes 8.5.3   | Web Profiles (Rewriter, Passthrough Proxy) |           | ✓          |
| Lotus Connect 3.0, 2.5   | Rewriter                                   |           | ✓          |
| <b>Citrix</b>  |  |           |            |
| Citrix StoreFront 3.16   | HTML5 Access, CTS and WSAM                 | ✓         |            |
| Citrix StoreFront 3.12, 3.11 and 3.8   | HTML5 Access, CTS and WSAM                 |           | ✓          |
| Citrix StoreFront with HTML5 Access  | Custom Web Profile                         |           | ✓          |
| Citrix Listed Applications with Server 6.5 SP1, 6.0, 7.6, 7.8                  | Citrix Terminal Services                   |           | ✓          |
| Citrix Receiver 4.9, 4.10 and 4.11   | Web, Terminal Services and SAM Profiles    | ✓         |            |
| Citrix Receiver 4.3.100  | Web, Terminal Services and SAM profiles.   |           | ✓          |
| Citrix XenApp and XenDesktop 7.18  | Citrix Terminal Services                   | ✓         |            |
| Citrix XenApp and XenDesktop 7.15, 7.14, 7.11                                  | Citrix Terminal Services                   |           | ✓          |
| Citrix XenDesktop 7.14 and 7.15  | VDI Profiles                               | ✓         |            |
| XenDesktop 7.11, 7.8   | VDI Profiles                               |           | ✓          |
| XenDesktop 7.8, 7.0, 5.6, 5.0  | VDI Profiles                               |           | ✓          |
| Citrix Web Interface 5.4   | Web Profiles (Rewriter, JSAM, and WSAM)    | ✓         |            |
| <b>VMWare</b>  |  |           |            |
| VMWare Horizon View HTML Access, version 7.5, 7.4                              | Rewriter                                   | ✓         |            |
| VMWare Horizon Agent version 7.5, 7.4  | VDI Profiles                               | ✓         |            |
| VMWare Horizon View Server version 7.6 and 7.7                                 | VDI Profiles                               | ✓         |            |
| VMWare Horizon View Server version 7.5, 7.4, 7.1, 7.0, 6.2, 6.1, 6.0, 5.3, 5.2 | VDI Profiles                               |           | ✓          |

| Application  | Support Summary              | Qualified | Compatible |
|--|------------------------------|-----------|------------|
| VMWare Horizon View Client version 7.6 and 7.7         | VDI Profiles                 | ✓         |            |
| VMWare Horizon View Client version 4.3.0, 4.1.0, 3.5.2 | VDI Profiles                 |           | ✓          |
| VMWare View Server version 4.6, 5.0, 5.1, 2.3.x        | VDI Profiles                 |           | ✓          |
| VMWare View Client version 4.6, 5.0, 5.1, 5.2          |                              |           | ✓          |
| <b>Exchange ActiveSync</b>                             |                              |           |            |
| Office 365   | Secure Mail Resource Profile | ✓         |            |
| Exchange 2016  | Secure Mail Resource Profile | ✓         |            |
| Exchange 2013, 2010 SP1, and 2007                      | Secure Mail Resource Profile |           | ✓          |
| <b>ESAP Package</b>                                    |                              |           |            |
| ESAP 3.0.3   | Host Checker                 | ✓         |            |
| <b>Virtual SA</b>                                      |                              |           |            |
| ESXi 6.7   |                              | ✓         |            |
| ESXi 6.5   |                              |           | ✓          |
| ESXi 6.0   | VA-DTE & VA-SPE/PSA-V/PSA-V  |           | ✓          |
| ESXi 5.5, 5.5 U3                                       | VA-DTE, VA-SPE/PSA-V         |           | ✓          |
| <b>KVM</b>   |                              |           |            |
| CentOS 6.6 with Kernel cst-kvm 2.6.32-504.el6.x86_64   | VA-DTE & VA-SPE/PSA-V/PSA-V  | ✓         |            |
| <b>Hyper-V</b>   |                              |           |            |
| Microsoft Hyper-V Server 2016 and 2019                 |                              | ✓         |            |
| Microsoft Hyper-V Server 2012 R2                       |                              |           | ✓          |

# Change History

Table 11: Lists changes to this document from the previous release.

| Section                     | Add/Update   | Drop or Moved  | Effective Release | Notes  |
|-----------------------------|--|--|-------------------|--|
| Third-Party Applications    | Added Citrix Storefront Server 3.16, XenApp Server 7.18, XenDesktop Server 7.18      |  | 9.0R4             | Qualified in this release  |
| Third-Party Applications    | Added VMWare Horizon View Server 7.6 and 7.7, VMWare Horizon View Client 7.6 and 7.7 |  | 9.0R4             | Qualified in this release  |
| Third-Party Applications    | Added Virtual SA ESXi 6.7  |  | 9.0R4             | Qualified in this release  |
| Third-Party Applications    | Hyper-V 2016 and 2019  |  | 9.0R4             | Qualified in this release  |
| Windows Supported Platforms | Added Windows 10 Redstone 5  |  | 9.0R4             | Added Windows 10 Redstone 5 compatible                                 |
| Windows Supported Platforms | Added Windows 10 Redstone 5  |  | 9.0R3             | Added Windows 10 Redstone 5 qualified                                  |
| Mac OS Supported Platforms  | Added Mac OS Mojave 10.14  |  | 9.0R3             | Added Mac OS Mojave 10.14 qualified                                    |
| PSAL Support                | Added PSAL support on Mac OS   |  | 9.0R3             | Added PSAL support on Mac OS Mojave 10.14 and Mac OS High Sierra 10.13 |
| Third-Party Applications    | Added VMWare Horizon Agent   |  | 9.0R3             | Added VMWare Horizon Agent for VDI Profiles version 7.5 and 7.4        |
| Third-Party Applications    |  | Removed Citrix Web Interface 4.5                                 | 9.0R3             | Removed Citrix Web Interface 4.5                                       |
| Third-Party Applications    |  | Removed Citrix Program Neighborhood Agent with Citrix Server 6.0 | 9.0R3             | Removed Citrix Program Neighborhood Agent with Citrix Server 6.0       |
| Third-Party Applications    | Updated Citrix StoreFront 3.11 and 3.12  |  | 9.0R3             | Consolidated Citrix StoreFront 3.12 Citrix Storefront 3.11             |
| Third-Party Applications    | Updated Custom Web Profile   |  | 9.0R3             | Changed from Rewriter  |
| Third-Party Applications    | Updated Citrix XenApp and XenDesktop 7.11  |  | 9.0R3             | Changed from Citrix Listed Applications with Server XenApp 7.11        |

| Section   | Add/Update  | Drop or Moved | Effective Release | Notes  |
|---|---|---------------|-------------------|--|
| Third-Party Applications                        | Added Citrix XenApp and XenDesktop 7.14 and 7.15          |               | 9.0R3             | Consolidated Citrix Listed Applications with Server XenApp 7.15 and 7.14                       |
| Windows Supported Platform                      | Windows 10 Redstone-4 compatible                          |               | 9.0R2             | Added Windows 10 Redstone-4 compatible   |
| Third-Party Applications                        | Added Lotus iNotes 9.0                                    |               | 9.0R2             | Added Web Profiles (Rewriter, Passthrough Proxy) support for Lotus iNotes 9.0                  |
| Third-Party Applications                        | Added VMWare Horizon view HTML Access, version 7.5, 7.4   |               | 9.0R2             | Added rewriter support for VMWare Horizon view HTML Access, version 7.5, 7.4                   |
| Third-Party Applications                        | Added VMWare Horizon view server version 7.5, 7.4         |               | 9.0R2             | Added VDI profiles support for VMWare Horizon view server version 7.5, 7.4                     |
| Platform Support for AAA                        | Added RSA AM 8.3  |               | 9.0R2             | Added support for RSA Authentication Manager 8.3   |
| Platform Support for AAA                        | Removed RSA AM 7.1  |               | 9.0R2             | Removed support for RSA Authentication Manager 7.1   |
| Third-Party Applications                        | Added VMWare Horizon view HTML Access, version 7.3.1, 7.2 |               | 9.0R1             | Added rewriter support for VMWare Horizon view HTML Access, version 7.3.1, 7.2                 |
| Third-Party Applications                        | Citrix Receiver 4.9 and 4.11                              |               | 9.0R1             | Citrix Receiver 4.9 and 4.11 has been qualified in this release                                |
| Third-Party Applications                        | Citrix StoreFront 3.12                                    |               | 9.0R1             | Citrix StoreFront 3.12 has been qualified in this release                                      |
| Third-Party Applications                        | Citrix XenDesktop 7.14 and 7.15                           |               | 9.0R1             | Citrix XenDesktop 7.14 and 7.15 has been qualified in this release                             |
| PSAL Support for JSAM and Premiere Java Applets | Added PSAL support for HOB applets and JSAM               |               | 8.3R3             | Added PSAL support for HOB applets and JSAM  |
| Mac OS X  | Mac OS High Sierra Version 10.13 Beta                     |               | 8.3R3             | Added Mac OS High Sierra Version 10.13 support; Oracle JRE/JDK 8                               |
| Windows Supported Platform                      | Windows 10 RedStone-3 compatible                          |               | 8.3R3             | Added Windows 10 RedStone-3 compatible   |
| Third-Party Applications                        | ESXi 6.5<br>ESXi 6.0, 5.5                                 |               | 8.3R3             | ESXi 6.5 has been qualified for this release<br>ESXi 6.0, 5.5 are compatible with this release |
| Premiere HOB JWT                                | 4.1   |               | 8.3R3             | Added PSAL support for HOB applets and JSAM  |
| Mac OSX   | Latest Safari versions                                    |               | 8.3R3             | Added Safari 11.0, 10.1, Safari 9.1.3, Safari 6.2.8  |
| Firefox ESR 52                                  | ESR 52  |               | 8.3R3             | Qualified Firefox ESR 52 support   |
| VMWare Horizon view server                      | 7.1 qualified   |               | 8.3R3             | Added VDI Profiles for supporting 7.1  |
| Windows Supported Platform                      | Redstone 2 qualified                                      |               | 8.3r2             | Added Redstone 2 as qualified platform   |

| Section                     | Add/Update   | Drop or Moved               | Effective Release | Notes   |
|-----------------------------|--|-----------------------------|-------------------|---|
| Windows Supported Platform  |  | Dropped references to Vista | 8.3r1             | Dropped references to Vista   |
| Linux Supported Platform    | References to Fedora 23  |                             |                   | Added Fedora 23 references for Host Checker, Network Connect, and Pulse Secure Linux  |
| MDM Solutions               | Air Watch:<br>Cloud service 8.4.7.0  |                             | 8.3r1             | Added Air Watch:<br>Cloud service 8.4.7.0 support   |
| MDM Solutions               | MobileIron<br>Cloud service: Core 9.1.1.0 Build 29                                 |                             | 8.3r1             | Added MobileIron<br>Cloud service: Core 9.1.1.0 Build 29 support  |
| Mac OSX Supported Platforms | Mac OS X 10.12   |                             | 8.3r1             | Added Mac OS X 10.12 support  |
| Pulse Secure Mobile Client  | iOS 8.4.2 64-bit<br>iOS 7.1.2 64-bit & 32-bit<br>iOS 7.1 and 6.x 64-bit and 32-bit |                             | 8.3r1             | Added iOS 8.4.2 64-bit<br>iOS 7.1.2 64-bit & 32-bit<br>iOS 7.1 and 6.x 64-bit and 32-bit support  |
| Pulse Secure Mobile Client  | iOS 10.2.1, 9.3.5, 64-bit  |                             | 8.3r1             | Added iOS 10.2.1, 9.3.5, 64-bit support   |
| Pulse Secure Mobile Client  | Android 5.1.1, 4.4.4, 4.4.3, 4.4.2   |                             | 8.3r1             | Added 5.1.1, 4.4.4, 4.4.3, 4.4.2  |
| Pulse Secure Mobile Client  | Android 7.0  |                             | 8.3r1             | Added Android 7.0 support   |
| Linux Supported Platforms   | CentOS 7.0   |                             | 8.3r1             | Added CentOS 7.0 support  |
| Windows Supported Platforms | Windows 10 RedStone-2<br>Enterprise/Pro/Home                                       |                             | 8.3r1             | Added Windows 10 RedStone-2<br>Enterprise/Pro/Home support  |
| Third-Party Applications    | Citrix   |                             | 8.3r1             | Added support for <ul style="list-style-type: none"> <li>Citrix Listed Applications With Server XenApp 7.11</li> <li>Citrix Listed Applications With Server XenApp 7.8</li> <li>Citrix StoreFront 3.6 (HTML5 Access, CTS and WSAM)</li> <li>Citrix StoreFront 3.5 (HTML5 Access, CTS and WSAM)</li> <li>XenDesktop 7.11, 7.8</li> <li>XenDesktop 7.0, 5.6, 5.0</li> </ul> |
| Third-Party Applications    | ESAP   |                             | 8.3r1             | Added Qualified ESAP versions for 8.3.  |
| Platform Support for AAA    |  | RSA AM 6.1 support          | 8.3r1             | Removed RSA AM 6.1 for RADIUS and Moved CA Siteminder 6.0 SP4 to compatible   |
| Platform Support for AAA    |  | CA Siteminder 6.0 SP4       | 8.3r1             | Moved CA Siteminder 6.0 SP4 to compatible.  |
| Platform Support for AAA    | RSA AM 8.2   |                             | 8.3r1             | Added support for RSA Authentication Manager 8.2  |

| Section   | Add/Update  | Drop or Moved                                     | Effective Release | Notes  |
|---|---|---|-------------------|--|
| Platform Support for AAA                              | Windows Server 2016   |   | 8.3r1             | Added Support for Windows Server 2016 under Active Directory & LDAP.   |
| 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"> <li>IPv6 Support</li> </ul>  |   | 8.2r5             | Added support for IOS (Host Checker, VPN) 10.0 Beta4, 9.3.9.3.2,9.2.1,8.3,8.1<br>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"> <li>Windows 10 RedStone Enterprise/Pro/Home</li> </ul>   |   | 8.2r5             | Added Support for Windows 10 RedStone Enterprise/Pro/Home  |
| MDM Solutions   | <ul style="list-style-type: none"> <li>Pulse Workspace</li> </ul>   |   | 8.2r5             | Added Cloud Service  |
| Linux Supported Platforms                             | <ul style="list-style-type: none"> <li>Ubuntu 14.04 (64-bit)</li> <li>CentOS 6.4 (32-bit/64-bit)</li> <li>Fedora 23</li> <li>RHEL 7</li> <li>Ubuntu 15.04 &amp; Ubuntu 16.04</li> </ul> |   | 8.2r4             | Added support for Ubuntu 15.04 & Ubuntu 16.04;<br>Ubuntu 14.04 (64-bit);<br>CentOS 6.4 (32-bit/64-bit);<br>Fedora 23;<br>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 52 ESR, 32-bit  |   | 8.2r3             | Added Compatible support for Firefox 52 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.   |
| 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.   |

| Section   | Add/Update   | Drop or Moved                             | Effective Release | Notes   |
|---|--|---|-------------------|---|
| 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<br>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<br>SA4500<br>SA6500<br>SAX500 FIPS | 8.2R1             | SAX500 Platforms are not supported to run 8.2R1.  |
| Hardware  | PSA300<br>PSA3000<br>PSA5000<br>PSA7000c<br>PSA7000f |   | 8.1r4.1           | 8.1R4.1 supports the following new Next-Generation hardware platforms: <ul style="list-style-type: none"> <li>• PSA300</li> <li>• PSA3000</li> <li>• PSA5000</li> <li>• PSA7000c</li> <li>• PSA7000f</li> </ul> |
| 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.   |
| 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.   |

| Section  | Add/Update          | Drop or Moved | Effective Release | Notes   |
|--|---------------------|---------------|-------------------|---|
| 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.  |