

# UPDATES FOR PULSE CONNECT SECURE 8.2R3, PULSE POLICY SECURE 5.3R3 AND PULSE CLIENT 5.2R3

## Bulletin Date

May 2016

## Applicable to All Regions

## Effective Change Date

May 2016

## Introduction

This Product Bulletin describes new features and functions available in Pulse Connect Secure 8.2r3, Pulse Policy Secure 5.3r3 and the Pulse Secure desktop client 5.2r3.

These releases address ongoing BYOD challenges and simplify the secure-access experience for mobile professionals - independent of their location and device. Today, enterprises allow employee-owned devices on the network to reduce costs and improve productivity, but if this process is not properly managed, then security issues can result. With these new releases from Pulse Secure, companies can securely provide workers simplified Network Access Control, anytime access to Hybrid IT environments, and the highest levels of secure connectivity.

Features including Cloud Secure with SSO functionality for applications, support for Hyper-V hypervisors, granular cipher configuration, SNMP visibility/enforcement, Ruckus WLC integration, Patch Management enhancement and improved client IPv6 support are explained below.

Additionally, with Pulse Secure Workspace for smartphones and tablets, enterprises now have a simple way to eliminate data-at-rest risks while continuing to support any mobile app so that their end users can access collaboration apps on the go - from campus to the road.

## What's New

### Pulse Connect Secure 8.2r3

#### Highlighted Features in this Release

Key Feature	Benefit
<ul style="list-style-type: none"> <li>Granular SSL Cipher Configuration</li> </ul>	<ul style="list-style-type: none"> <li>Provides the ability to select specific ciphers and enforce their priority during SSL connection establishment. This allows users to enforce strong cipher suites, e.g. for PCI compliance, avoid weak cipher violations, etc or to be more permissive to maintain compatibility with aging clients.</li> </ul>
<ul style="list-style-type: none"> <li>SSO enhancements for native apps and Office 365</li> </ul>	<ul style="list-style-type: none"> <li>It is now possible to allow seamless, standards-based single sign-on (SSO) for non-browser environments, e.g. native mail applications, facilitated by SAML Enhanced Client and Proxy (ECP) profile</li> <li>SSO to Office 365 without requiring DirSync or ADFS deployment, via added support for persistent SAML attributes required by Office 365.</li> </ul>
<ul style="list-style-type: none"> <li>Enhanced Pulse Application Launcher adds Microsoft Edge support</li> </ul>	<ul style="list-style-type: none"> <li>"Pulse Application Launcher" (PAL), that launches and installs Pulse Secure clients via browsers without using a Java Plugin or ActiveX technologies, has been enhanced to support Microsoft Edge browser.</li> </ul>
<ul style="list-style-type: none"> <li>Support for Hyper-V hypervisor</li> </ul>	<ul style="list-style-type: none"> <li>Hyper-V is another hypervisor that is supported as part of extended platform support for virtual appliances.</li> </ul>
<ul style="list-style-type: none"> <li>RSA Risk Based Authentication(RBA) support for PCS Clusters</li> </ul>	<ul style="list-style-type: none"> <li>The RSA Risk Based Authentication integration is enhanced to support PCS clusters, in addition to standalone units, thus providing a token less, web-based and secure authentication mechanism for both small and large deployments.</li> </ul>
<ul style="list-style-type: none"> <li>Dual monitor Support for Windows Terminal Services</li> </ul>	<ul style="list-style-type: none"> <li>Windows Terminal Services bookmarks has been enhanced to support dual monitors.</li> </ul>
<ul style="list-style-type: none"> <li>HTML5 RDP – End User can create HTML5 access bookmarks</li> </ul>	<ul style="list-style-type: none"> <li>Allows a user to create and edit bookmarks and access them over RDP via HTML5.</li> </ul>
<ul style="list-style-type: none"> <li>Enhanced Third-Party Application Support</li> </ul>	<p>This release adds support for the following third-party applications:</p> <ul style="list-style-type: none"> <li>Policy Server 12.5 SP3/SP4</li> <li>VmWare View client 2.X , 3.X</li> <li>Sharepoint 2013 SP1</li> <li>Storefront 3.1 (Beta)</li> <li>Windows 10 (Threshold 2)</li> <li>OWA 2016 (via Rewriter and PTP)</li> </ul>

Figure 1: Granular Cipher Selection in Pulse Connect Secure

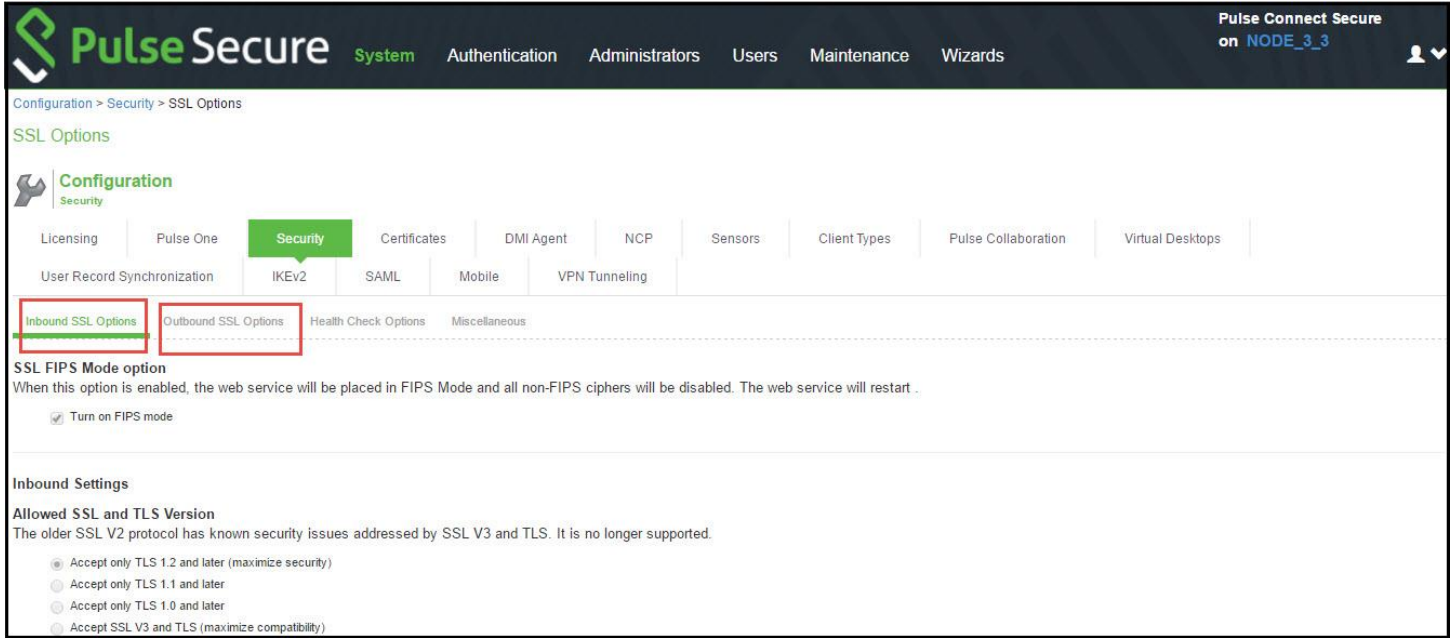
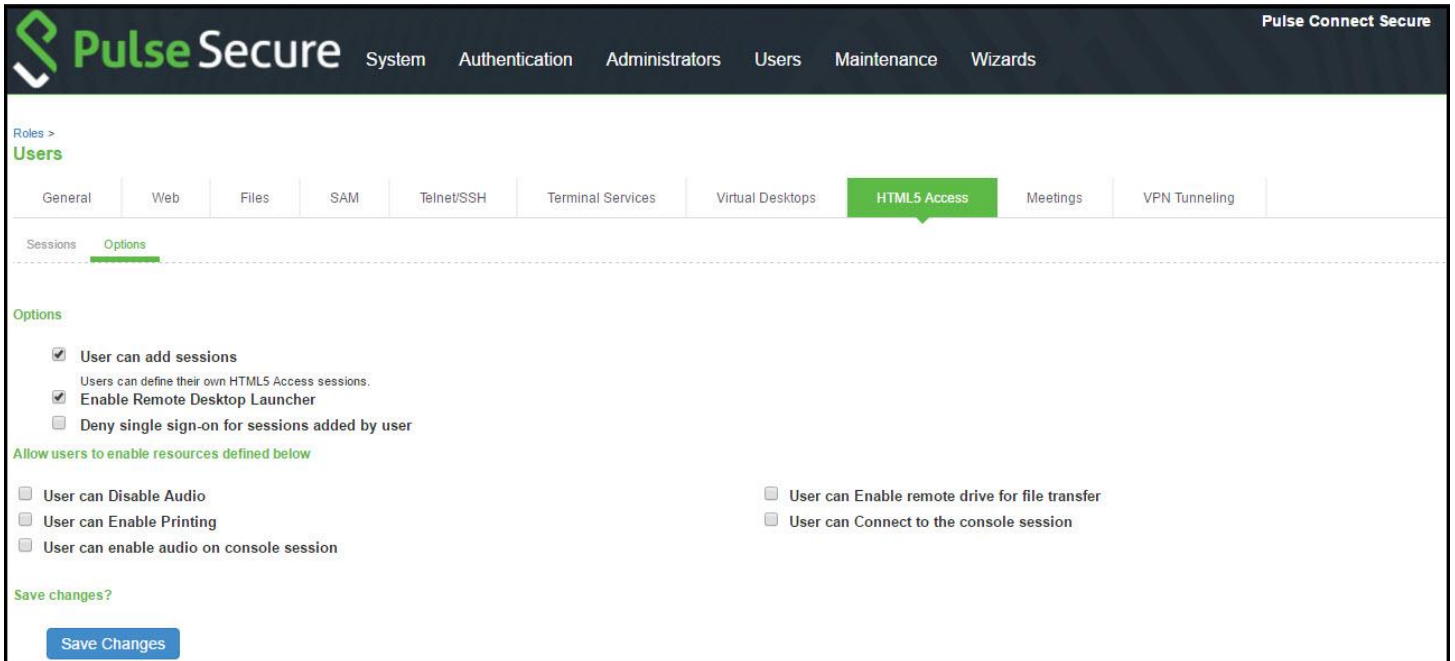


Figure 2: HTML5 RDP – End User can create HTML5 access bookmarks



## Pulse Policy Secure 5.3r3

### Highlighted Features in this Release

Key Feature	Benefit
<ul style="list-style-type: none"> <li>• SNMPv1/v2c/v3 device discovery and enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• Provides customer with the ability to discover SNMPv1/v2c/3-enabled devices for visibility, and secure access through pre- and post-admission access management and policy enforcement</li> </ul>
<ul style="list-style-type: none"> <li>• Support for Ruckus WLAN (SmartZone and ZoneDirector) Integration</li> </ul>	<ul style="list-style-type: none"> <li>• Expand Ecosystem play by providing NAC/BYOD solution in a Ruckus Wireless SmartZone and ZoneDirector deployment and extend guest access with Captive portal integration.</li> </ul>
<ul style="list-style-type: none"> <li>• Enhanced OPSWAT Patch Management Policy</li> </ul>	<ul style="list-style-type: none"> <li>• Enables customers to select options to configure various Severity and Category for Host Checker and evaluate policy for windows system.</li> </ul>
<ul style="list-style-type: none"> <li>• Leverage OPSWAT v4 xml data to support up-to-date AV/AS definitions</li> </ul>	<ul style="list-style-type: none"> <li>• Improves security with endpoint compliance by providing the latest AV/AS definitions through host checker functionality.</li> </ul>
<ul style="list-style-type: none"> <li>• Granular Cipher Changes</li> </ul>	<ul style="list-style-type: none"> <li>• Improves security and flexibility where administrator could select specific ciphers and the preferred ordering of the selected ciphers. With this feature admins can select the ciphers that TLS/SSL</li> </ul>

Figure 3: SNMP Configuration in PPS

The screenshot shows the Pulse Secure web interface for configuring SNMP Policies. The navigation bar at the top includes 'System', 'Authentication', 'Administrators', 'Users', 'Endpoint Policy' (highlighted), 'Maintenance', and 'Wizards'. The breadcrumb trail indicates the current location: 'SNMP Enforcement > SNMP Policies'. Below the breadcrumb, there are three tabs: 'SNMP Switch', 'SNMP Enforcement Policies' (selected), and 'SNMP Switch Discovery'. A toolbar contains buttons for 'New SNMP Policies...', 'Duplicate...', 'Delete...', and 'Save Changes'. The main content area displays a table of SNMP Policies:

ID	Name	Location Group	VLAN	Roles
1	Full Access	SNMP_LocationGroup_1	74	Full-Access-Role
2	Limited	SNMP_LocationGroup_1	60	Guest Limited-Access-Role

Figure 4: Ruckus WLC Configuration in PPS

**Pulse Secure** System Authentication Administrators Users **Endpoint Policy** Maintenance

Network Access > RADIUS Client > ruckus

### ruckus

▼ RADIUS Client

* Name:	<input type="text" value="ruckus"/>	Label to reference this RADIUS Client.
Description:	<input type="text"/>	
* IP Address:	<input type="text" value="10.96.73.8"/>	IP Address of this RADIUS Client.
* IP Address Range:	<input type="text" value="1"/>	Number of IP Addresses for this RADIUS Client
* Shared Secret:	<input type="password" value="....."/>	RADIUS shared secret
* Make/Model:	<input type="text" value="Ruckus Wireless"/>	To manage make/model, see the <a href="#">RADIUS Vendor</a>
Ruckus Request Password:	<input type="password"/>	Ruckus SmartZone Northbound Portal Interface password
* Location Group:	<input type="text" value="Guest"/>	To manage groups, see the <a href="#">Location Group</a>

Figure 5: Patch Management Enhancement

**Pulse Secure** System Authentication Administrators Users Endpoint Policy Maintenance Wizards

Configuration > Host Checker Policy > Edit Predefined Rule : Patch Management

### Edit Predefined Rule : Patch Management

Rule Type: Patch Management  
\*Rule Name:

▼ \*Criteria

Select Product Name:

**Severity:**  Critical  Important  Moderate  Low  Unspecified/Unknown  
Note: For some of the patch management software products, severity is not detected. In such cases, enable "Unspecified/Unknown" severity to detect the missing patches

**Category:**  Security Update  Rollup Update  Critical Update  Regular Update  Driver Update  Service Pack Update  Unknown  
Note: For some of the patch management software products, category is not detected. In such cases, enable "Unspecified" category to detect the missing patches

▼ Remediation

Note: Only SMS/SCCM patch deployment method is used.  
 Enable Automatic Patch Deployment

Powered by **OPSWAT**

\* indicates required field

Licensed to 0161M23D001AW03Z  
Host Id: localhost2  
Copyright © 2011-2015 Pulse Secure, LLC. All rights reserved.

## Pulse Client 5.2r2 & 5.2r3

### Highlighted Features in this Release

Key Feature	Benefit
<ul style="list-style-type: none"><li>Improved MTU Calculation (5.2r2)</li></ul>	<ul style="list-style-type: none"><li>Improved calculation of the Maximum Transmission Unit (<a href="#">MTU</a>) results in better performance and stability in highly complex and heterogeneous network environments.</li></ul>
<ul style="list-style-type: none"><li>Custom Sign-In Page Support (5.2r2)</li></ul>	<ul style="list-style-type: none"><li>The Pulse Secure desktop client now supports <a href="#">custom sign-in pages</a>, which provide customizable HTML authentication and password-management screens.</li></ul>
<ul style="list-style-type: none"><li>Support for Wireless Suppression with GPOs (5.2r2)</li></ul>	<ul style="list-style-type: none"><li>The Pulse Secure desktop client can now disable wireless adapters when a wireless adapter is active – even when Group Policy Objects (<a href="#">GPOs</a>) are used for wireless configuration of Windows devices.</li></ul>
<ul style="list-style-type: none"><li>Improved IPv6 Support on OSX 10.10 &amp; 10.11 (5.2r2)</li></ul>	<ul style="list-style-type: none"><li>The Pulse Secure desktop client better supports IPv6 on OSX 10.10 and 10.11.</li></ul>
<ul style="list-style-type: none"><li>SSO using Credential Provider (5.2r3)</li></ul>	<ul style="list-style-type: none"><li>New Single Sign On (SSO) functionality in the Pulse Secure desktop client can reduce the number of times end users are prompted for credentials.</li></ul>
<ul style="list-style-type: none"><li>Improved IPv6 Security (5.2r3)</li></ul>	<ul style="list-style-type: none"><li>The Pulse Secure desktop client now contains IPv6 “route monitoring” functionality to ensure the IPv6 routing table is not changed in violation of tunneling policies.</li></ul>
<ul style="list-style-type: none"><li>Qualification with Google Authenticator (5.2r3)</li></ul>	<ul style="list-style-type: none"><li>The Pulse Secure desktop client has been qualified to interoperate with <a href="#">Google Authenticator</a>, which provides two-factor authentication.</li></ul>
<ul style="list-style-type: none"><li>Enhanced SHA-2 Code Signing (5.2r3)</li></ul>	<ul style="list-style-type: none"><li>By using SHA-256 message digests in the code signing process, it is now vastly more computationally difficult for malicious code to impersonate the Pulse Secure desktop client.</li></ul>
<ul style="list-style-type: none"><li>Simplified Large-scale Deployments (5.2r3)</li></ul>	<ul style="list-style-type: none"><li>The 8.2r3 PCS gateway, the 5.3r3 PPS gateway, and the 5.2r3 Pulse Secure desktop client contain enhancements that help system administrators adhere to large-scale configuration best practices, and simplify diagnosis of deployment issues.</li></ul>

Figure 6: Improved Large-Scale Deployments – Admin Console

Pulse Secure Client > Pulse Secure Client Connections

Pulse Secure Client Connections

Connections Components

A Pulse Secure connection set determines client settings and provides a listing of available connections for users.

New... Delete... Duplicate... Assume Ownership...

10 records per page Search:

<input type="checkbox"/>	Name	Description	Owner	Last Modified
<input type="checkbox"/>	1. <a href="#">Acme Set 1</a>	Acme connection set #1	local.server.test	2016-03-10 22:04:22 UTC
<input type="checkbox"/>	2. <a href="#">Acme Set 2</a>	Acme connection set #2	remote.server.test	2016-03-10 22:03:26 UTC

Grey descriptive text indicates the connection set is not owned by this server.

Figure 7: Improved Large-Scale Deployments – Client UI

**Pulse Secure**

Advanced details: Acme Connection

This session is not connected.

Connection source: Preconfigured

Connection Set:

Name: Acme Set 1

Owner: local.server.test

Last modified: 2016-03-10 22:04:22 UTC

Server ID: abcdef

Download host: replica.server.test

Download time: 2016-03-17 08:30:01 UTC

Automatically refresh

Refresh Close

## Learn More

### Resources

- [Pulse Connect Secure datasheet](#)
- [Pulse Cloud Secure product brief](#)

[www.pulsesecure.net](http://www.pulsesecure.net)

## About Pulse Secure, LLC

Pulse Secure, LLC is a leading provider of access and mobile security solutions to both enterprises and service providers. Enterprises from every vertical and of all sizes utilize Pulse Secure's Virtual Private Network (VPN), Network Access Control (NAC) and mobile security products to enable secure end-user mobility in their organizations. Pulse Secure's mission is to provide integrated enterprise system solutions that empower business productivity through seamless mobility.

---

### Corporate and Sales Headquarters

Pulse Secure LLC  
2700 Zanker Rd. Suite 200  
San Jose, CA 95134  
[www.pulsesecure.net](http://www.pulsesecure.net)

Copyright 2016 Pulse Secure, LLC. All rights reserved. Pulse Secure and the Pulse Secure logo are registered trademarks or Pulse Secure, LLC. All trademarks, service marks, registered marks, or registered service marks are the property of their respective owners. Pulse Secure assumes no responsibility for any inaccuracies in this document. Pulse Secure reserves the right to change, modify, transfer, or otherwise revise this publication without notice.