

Pulse Desktop Client

Release Notes 9.1R1

PDC 9.1R1 Build 607

PDC 9.1R1 Linux Build 21

Release 9.1R1

Published September 2019

Document Version 1.0.1

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Revision History

The following table lists the revision history for this document.

Revision	Date	Description
9.1R1	September 2019	Cosmetic Change
9.1R1	May 2019	Initial Publication – 9.1R1

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Introduction

This is the release-notes document for the Pulse Secure Desktop Client version 9.1R1. This document provides a cumulative list of all enhancements, fixes and known issues for the 9.1R1. If the information in the release notes differs from the information found in the documentation set, follow the release notes.

The Pulse Secure Desktop Client provides a secure and authenticated connection from an endpoint device (either Windows, macOS or Linux) to a Pulse Secure gateway (either Pulse Connect Secure or Pulse Policy Secure). For a complete description of the capabilities of this desktop client, please see the online help within the desktop client itself, or the Pulse Desktop Client Administration Guide available at https://www.pulsesecure.net/techpubs/.

Interoperability and Supported Platforms

Please refer to the Pulse Desktop Client Supported Platforms Guide for supported versions of operating systems, browsers, and servers in this release.

General Notes

Security-related issues are not normally covered in Pulse Secure release notes. To find more information security advisories affecting Pulse Secure products, please refer the Pulse Secure security advisory page.

Note: From 9.1R2 release onwards, Network Connect (NC) client and Windows Secure Application Manager (WSAM) client will not be supported.

Upgrade Paths

The following table describes the tested upgrade paths.

Release	Description
9.0Rx	You can upgrade directly to 9.1R1.
5.3Rx	You can upgrade directly to 9.1R1.
5.0Rx or 5.1Rx or 5.2Rx	You can upgrade directly to 5.3Rx by installing the 5.3Rx update.

Note: For Pulse SAM connection, user will not be able to upgrade to 9.1Rx from pre-9.0R3 builds. User needs to upgrade via the browser. Also, on Windows 7 machine, user will not be able to establish the Pulse SAM connection with pre-9.1R1 PCS.

Caveats, Important Changes, and Deprecated Features

Please note that client upgrades are not supported to or from beta releases.

Important Note: To run the Pulse Secure Desktop Client version 5.3R1 or later a Windows 7 machine, the machine must contain a March 10, 2015 Windows 7 Update to be able to accept and verify SHA2-signed binaries properly. This Windows 7 update is described here. If this update is not installed (in other words if

a Windows 7 machine has not received an OS update since March 10, 2015), then Pulse 5.3R1 and later will have reduced functionality (see PRS-337311). As a general rule, Pulse Secure, LLC recommends that client machines be kept current with the latest OS updates to maximize security and stability.

New Features in 9.1R1 Release

The following table describes the major features that are introduced in this release.

Feature	Description
Launching Pulse Desktop Client using URL	Pulse Desktop Client can now be launched using a URL. Customers can insert the URL in any tools (For example: Support ticket management tool), so that when user clicks on the URL, Pulse Desktop Client gets invoked and connects to the VPN. Note: Allow saving logon information option must be enabled in Pulse Connect Secure server settings to use Launching Pulse Desktop Client using URL feature. (Enable Allow saving logon information > Users > Pulse Secure Client > Connections > <connection name="">).</connection>
Pulse SAM IPv6 Support	Pulse Desktop Client now supports IPv6 traffic tunneling in Pulse SAM mode on Windows 10, Windows 8.1 and Windows 7 platforms.
Automatic Keyboard popup on Surface Pro	When users select the username or password field on Pulse Desktop Client installed on a Windows Surface device, the virtual keyboard automatically pops up so that user can enter the credentials.

Product Codes (GUIDs) for SCCM Deployments in 9.1R1 Release

If you deploy the Pulse Secure Desktop Client using System Center Configuration Manager (SCCM, formerly SMS), it can be helpful to know the Product Codes (GUIDs) of Pulse Secure Desktop Client installation bundles. SCCM uses these codes to determine whether products are already installed. The table below gives the product codes for version 9.1R1 of the desktop client for the given the architecture (32-bit or 64-bit) and locale (language environment).

PulseSecure.x86.msi

- English {D9BD510B-2DC6-4A20-8B26-D07C799C41FC}
- Chinese (Taiwan) {174C857C-11BE-45D8-9063-37B02C1508B8}
- German {BE7A60AA-3FF5-4D35-9CA7-461851369C4A}
- Spanish {F3F3B743-BCF2-4601-BF6B-1078C0CE0704}
- French {488CE0C8-77B0-4A2C-B3BA-D0A5CE2BDAC4}
- Italian {376E943E-958C-47CD-9EE5-A40CBE6483B7}
- Japanese {63B578ED-BD3E-40A6-B3F7-166708E49BA4}
- Korean {972FA217-F5B6-4715-917F-BC0EF7407EFC}
- Polish {C38E6C1E-9BA6-44C5-8E9B-16C8445AF457}
- Chinese (China) {1953E341-C083-4661-8AE5-930A0A1E2106}

PulseSecure.x64.msi

- English {AB8FE63C-3C46-4F5E-96AE-ED50CAF74723}
- Chinese (Taiwan) {63EDC13F-9910-429A-AB79-0CA61FFB2CF1}

- German {AA936E6F-A772-4974-9856-EBD778381786}
- Spanish {F14E4340-BDC5-433E-A3AC-D822B84746B6}
- French {F83F8C27-DAB0-4E6D-9DB0-EDAEA0EED12A}
- Italian {F5492346-A562-4FD9-9F3D-E2A1A9A7B2CA}
- Japanese {70F811F4-4269-4F3C-BB89-AE4AC46EA3ED}
- Korean {9BA77365-3010-41EA-B35B-9FFFD3D9989C}
- Polish {4D41B4DD-A16F-41B6-A38E-D9C19BD02CDE}
- Chinese (China) {26D8FD5B-7B82-458C-8F61-C783E6F8619B}

Fixed Issues in 9.1R1 Release

The following table lists issues that have been fixed and are resolved by upgrading to this release.

Problem Report Number	Summary
PRS-369889	Summary: Authentication with Host Checker verification fails on Kernel 4.18.0-10.
PRS-371071	Summary: Unable to add multiple certificates to gnome-keyring.
PRS-375343	Summary : Pulse: Customer facing frequent disconnection post adding FQDN and IPv4 addresses in Split tunneling rules.
PRS-372327	Summary: Wireless suppression fails to re-enable wireless NIC when surface PRO's USB network adapter is unplugged.
PRS-371725	Summary : Pulse: macOS: Re-branding: Modified Username and Password Label not showing completely on MAC machines.
PRS-371066	Summary : Color management is not working in macOS 10.14(Mojave) when French language is used.
PRS-370972	Summary: Wireless disconnects after upgrading to Win 10 1803.
PRS-370894	Summary : Pulse desktop client prompts for proxy credentials when wild card exception is used in PCS URL.
PRS-370690	Summary : Captive Portal detection via Pulse client fails and shows a blank page with latest 9.0R2.1 version in Windows 10 OS.
PRS-370459	Summary: Pulse is not honoring the zscaler proxy exception.
PRS-370348	Summary : 20 seconds delay is observed to establish the tunnel when the unreachable proxy PAC is unreachable.

Known Issues in 9.1R1 Release

The following table lists known issues in this release.

Problem Report Number	Release Note	
PRS-373432	Symptom: For launching Pulse Desktop Client from the URL, the following are the prescribed parameters: • connect	
	nameserveruserrealm	

Problem Report Number	Release Note
	• username Launching Pulse Desktop Client using URL might throw an error, if
	 Same parameter is included multiple times while crafting the URL. If any other non-prescribed parameter, other than above-mentioned five prescribed parameters are used. Condition: Entering multiple values for the five parameters (name, server, userrealm, username and store) or any additional parameter, as shown in the following URLs:
	 pulsesecureclient://connect?name=NAME&server=SERVERURL&userrealm=REALM&username= USER1&username=USER2&store=TRUE&store=FALSE In this example, multiple values (USER1 and USER2) for the parameter username and multiple values (TRUE and FALSE) for the parameter store are entered.
	 pulsesecureclient://connect?name=NAME&server=SERVERURL&userrealm=REALM&username= USER&store=TRUE&extra=TRUE&other=SOMETHING In this example, non-prescribed parameter(other) is used. Workaround: None
	Symptom: When launching Pulse Desktop Client using URL, some characters in the <i>username</i> parameter might not get displayed in the Pulse Desktop UI as expected. Condition: Entering <i>username</i> parameter in the following URL:
	pulsesecureclient://connect?name=NAME&server=SERVERURL&userrealm=REALM&username= test8 =user &store=TRUE
PRS-374076	In this example, username will be considered as test instead of test&=user . Workaround: Use ascii encoding values for special characters. In the above-mentioned example, for the username to be considered as test&=user , use %2 for & and %3D for = in the URL, as shown below: pulsesecureclient://connect?name=NAME&server=SERVERURL&userrealm=REALM&username=test% 26%3Duser &store=TRUE
PRS-373177	Symptom: Launching Pulse Desktop Client using URL feature is not working as expected for differently worded values for the <i>server</i> parameter. Condition: Entering differently worded values for the <i>server</i> parameter. The following three URLs refer to the same connection, but server values are worded differently: Though the connections with the below three server URLs (https://pcsserver.com/sign-in/, https://pcsserver.com/sign-in, pcsserver.com/sign-in) would ideally be the same connection, these three connections will be treated as different connections while launching PDC from URL.
	 pulsesecureclient://connect?name=Pulse Connection&server=https://pcsserver.com/sign-in/&userrealm=Users&username=user1&store=TRUE
	 pulsesecureclient://connect?name= Pulse Connection &server=https://pcsserver.com/sign-in&userrealm=Users&username=user1&store=TRUE
	 pulsesecureclient://connect?name= Pulse Connection &server=pcsserver.com/sign-in&userrealm=Users&username=user1&store=TRUE
	Workaround: None
PRS-374087	Symptom: L3 based FQDN Split Tunneling feature with PSAM coexistence is not supported. Condition: Dual Stack is enabled in Pulse Desktop Client machine. Workaround: None
PRS-374384	Symptom: User will not be able to download the Pulse Desktop Client from any package. Condition: Pulse Desktop Client package is uploaded before the Pulse Connect

Problem Report Number	Release Note
	Secure upgrade. Workaround: Upload the junosepulse.pkg and download the installers.
	Symptom: Unable to connect to Pulse Connect Secure Server from Pulse Desktop Linux Client.
PRS-374876	Condition: Primary network card of a machine has multiple aliased IP addresses set.
	Workaround: Ensure that the primary network card does not have multiple aliased IP addresses.
	Symptom: Wireless LAN L2 connection disconnects immediately when the LAN L2 connection is established.
PRS-374627	Condition: When FIPS is enabled for L2 wireless connection.
	Workaround: Disable the FIPS in wireless connection.
	Symptom: Pre Pulse9.0R3 client fails to establish the Pulse SAM connection with Pulse Connect Secure 9.1R1 version.
	Condition: Pulse SAM connection fails when Pre Pulse9.0R3 client tries to establish the Pulse SAM connection with PCS 9.1R1.
PRS-375458	Workaround: To upgrade Pulse Desktop Client, launch the Pulse Desktop Client through the browser 9.1R1.
	Note: Pulse SAM connection fails to connect due to the following error:
	"Failed to set dns name query event, err:87" or "Failed to set netbios query event" or "Failed to set tcp/udp samize event" or "Failed to set tcpConnect event" or "Failed to set dns srv query event".
	Symptom: Shutting down the client PC will trigger the machine tunnel.
PRS-375900	Condition: Credential Provider option is enabled, and the user shuts down the client PC.
	Workaround: None
DDC 275007	Symptom: Pulse Desktop Client will take few seconds to show as connected when the client PC goes from sleep mode to awake mode.
PRS-375897	Condition: Credential Provider option is enabled, and the client PC goes to sleep mode.
	Workaround: None
	Symptom: Pulse Desktop Client fails to trigger the Credential Provider.
PRS-373995	Condition: When the Windows machine gets restarted.
	Workaround: None
PRS-375916	Symptom: While launching Pulse Desktop Client from URL, it prompts for the realm name information, even if the realm name is mentioned in the URL.
	Condition: When Allow saving logon information option is not enabled in connection profile.
	Workaround: Enable Allow saving logon information option in connection profile.
PRS-375956	Symptom: In case of an upgrade triggered from pulse desktop client from PDC 9.0R3 to 9.1R and once the upgrade process is completed, the user is unable to connect, and a network error is displayed in the connection status of the PDC UI. Condition: Upgrade using PDC on Windows 10 (x64) Redstone 5. Workaround: Reboot the machine after the upgrade or restart pulse secure service.
PRS-376021	Symptom: User's attempt to log in to a browser-based session fails with error message "Detected an Internal Error" sometimes. Condition: When accessing Mac via Safari. Workaround: Restart the machine.

Problem Report Number	Release Note
PRS-375766	Symptom: Pulse Desktop Client fails to add the route in case of FQDN based split tunneling. Condition: While adding the route in the local system. Workaround: None
PRS-376174	 Symptom: Upgrade of Linux Pulse Desktop Client displays the following warnings: In: failed to create symbolic link '/usr/local/pulse/libjavascriptcoregtk-1.0.so': File exists In: failed to create symbolic link '/usr/local/pulse/libjavascriptcoregtk-1.0.so.0': File exists In: failed to create symbolic link '/usr/local/pulse/libwebkitgtk-1.0.so': File exists In: failed to create symbolic link '/usr/local/pulse/libwebkitgtk-1.0.so.0': File exists Condition: While adding the route in the local system. Workaround: None
PRS-376205	Symptom: Advanced connection details are not displaying as expected for SAML embedded browser-based authentication. Condition: When Enable Session Extended option is enabled. Workaround: None
PRS-376209	Symptom: FQDN resource is going through the tunnel, even though it is configured in split tunneling excluded policy. Condition: When FQDN based split tunneling is enabled. Workaround: None
PRS-376071	Symptom: L2 Wireless suppression fails to re-enable the wireless NIC. Condition: Unplugging the wired USB network adapter from Surface Pro. Workaround: None
PRS-376034	Symptom: For stealth mode connection Use Desktop Credentials option should not be enabled while creating the connection. Condition: When stealth tunnel is configured for "Machine only" mode. Workaround: None
PRS-376235	Symptom: Pulse Desktop Client will be in connect state after replacing the connection set with the manually added connection. Condition: When added Sign-In URL is configured with VPN Only Access/Always-on VPN and Lock-down option is enabled. Workaround: Click on cancel instead of retry and try to establish the connection after one minute.
PRS-376278	Symptom: Unable to establish Pulse SAM connection on Windows 7 machine using Pulse Secure Desktop Client 9.1R1 connecting to pre-9.1R1 PCS. Condition: Pulse Secure Desktop Client 9.1R1 will not able to establish Pulse SAM connection with pre-9.1R1 PCS. Workaround: Use 9.1R1 PCS build.
PRS-372921	Symptom: TFTP connection is getting a timeout error. Condition: When Pulse SAM connection is established. Workaround: None
PRS-376378	Symptom: Delay is observed while accessing FQDN resources. Condition: When Split Tunneling with route monitor is enabled. Workaround: None

Documentation

Pulse documentation is available at https://www.pulsesecure.net/techpubs/.

Documentation Feedback

We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation.

You can send your comments to techpubs-comments@pulsesecure.net.

Technical Support

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- https://www.pulsesecure.net/support
- support@pulsesecure.net

Call us at 1-844-751-7629 (toll-free USA)

For more technical support resources, browse the support (https://www.pulsesecure.net/support).