Pulse Secure®

Pulse Desktop Client

Release Notes
PDC 9.1R3.1 Build 1413
PDC 9.1R3.1 Linux Build 107

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Revision History

The following table lists the revision history for this document.

Revision	Date	Description
9.1R3.1	January 2020	Updated Fixed Issues section.
9.1R3.1	November 2019	Initial Publication – 9.1R3.1
9.1R3	October 2019	Initial Publication – 9.1R3
9.1R2	July 2019	Initial Publication – 9.1R2
9.1R1	May 2019	Initial Publication – 9.1R1

Contents

Introduction

This is the release-notes document for the Pulse Secure Desktop Client version 9.1R3.1. This document provides a cumulative list of all enhancements, fixes and known issues for the 9.1R3.1. 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/.

Product Compatibility

Please refer to the 9.1R3.1 Pulse Desktop Client Supported Platforms Guide for supported versions of operating systems, browsers, and servers in this release.

Upgrade Instructions

Upgrade Paths

The following table describes the tested upgrade paths.

Release	Description
9.1Rx	You can upgrade directly to 9.1R3.1.
9.0Rx	You can upgrade directly to 9.1R3.1.
5.3Rx	You can upgrade directly to 9.1R3.1.

i **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.

i **Note**: From 9.1R3 release onwards, Network Connect (NC) client and Windows Secure Application Manager (WSAM) client are not supported.

i **Note:** Client upgrades are not supported to or from beta releases.

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.

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.

New Features

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

Feature	Description
Release 9.1R3.1	
Linux Client Auto Reconnect	Pulse Desktop Linux Client will now automatically attempt to reconnect in case of an interrupted connection, such as temporarily losing the Wi-Fi connection.
Release 9.1R3	
EKU/OID filtering for client certificate selection	Pulse Desktop Client will now provide the administrator an option to specify EKU Text or EKU OID for filtering the certificates displayed in the certificate selection prompt during Cert-Auth. It will filter the certificates automatically, so that only relevant certificates are displayed.
Optional loading for KEXT Component	Pulse Desktop Client on macOS will now load KEXT component only if **Traffic Enforcement** or **Lockdown mode** options are enabled. Otherwise, KEXT component which requires high privilege access is not loaded.
Pulselauncher.exe to access certs from System Store	Pulse launcher tool (pulselauncher.exe), which is a standalone client-side command-line program, can now access certificates located in system store allowing for certificate-based authentication from the tool.
Release 9.1 R2	
FQDN resource and IPv4 resource-based split tunneling conflict resolution	Pulse Connect Secure (PCS) supports both FQDN-based and IP-based split tunneling capability. When customers use both the split tunneling rules, PCS now provides flexibility for the customers to choose which rules to give precedence and ensures the resource access is not impacted when there are conflicting rules.
Manage Pulse Secure Client Versions feature support	Pulse Connect Secure now supports ability to enforce minimum client version that can connect to the VPN. Admin will have the flexibility to provide minimum version separately for desktop and mobiles to enforce the different client versions.
Support for Windows 10 Version 1903 (OS build 10.0.18362.207)	Pulse Desktop Client on Windows now supports Windows 10 Version 1903 (OS build 10.0.18362.207) Enterprise, 64 bit and Windows 10 Version 1903 (OS build 10.0.18362.207) Professional, 64 bit.
macOS KEXT Notarization	Apple mandates that all macOS applications are notarized by Apple. Pulse macOS Client KEXT component is now notarized by Apple.
Release 9.1 R1	
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>*).
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.

Fixed Issues

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

Problem Report Number	Summary
Release 9.1R3.1	
PRS-380218	**Summary:** Unable to resolve the DNS in Pulse Desktop Client - 9.1R2 for macOS.
PRS-379939	**Summary:** Wireless Suppression - Wireless adapters are disabled and needs to be enabled manually.
PRS-378109	**Summary:** Unable to establish tunnel with smart card reader when end-user has latest 10.15 macOS i.e. Catalina.
Release 9.1R3	
PRS-380761	**Summary**: FQDN Split Tunneling Route, AddRoute shows error 87.
PRS-380652	**Summary**: "Host checker did not get installed properly" error appears on browser after the machine reboot.
PRS-379992	**Summary:** Incorrect client platform as 'Windows' instead of 'Win' causes lockdown exception to fail.
PRS-379156	**Summary:** "Failed to clear PIN" error when using Yubikey smart card.
PRS-378089	**Summary:** Pulse Client prompt "Blank screen" when using SAML-OKTA Authentication with Pulse Embedded Browser.
PRS-377657	**Summary**: Pulse UI will be in securing connection state for more than 3 minutes. when traffic enforcement is enabled for both Ipv4 and Ipv6
PRS-377995	**Summary:** On multi-display setups, the Pulse Secure desktop client login window spawns off-screen.
PRS-377274	**Summary:** Enter Key is not working when using SAML Authentication with Pulse Embedded Browser.
PRS-376663	**Summary:** Username is limited to 32 character on ChromeOS Pulse Client.
PRS-376034	**Summary:** For stealth mode connection **Use Desktop Credentials** option should not be enabled while creating the connection.
Release 9.1R2	
PRS-372170	**Summary**: Missing certificate issue when Pulse client is launched in Ubuntu 18.0.4 version.
PRS-360574	**Summary**: IPv6 - After upgrading the Pulse Desktop Client from 5.3R2 to 5.3R4.1 on macOS machine, IPv6 DNS is not getting set on the Virtual adapter.
PRS-374418	**Summary**: Pulse Client Uninstall.app is not code signed.
PRS-376098	**Summary**: Logon Scripts are not running with lockdown mode enabled.
PRS-371051	**Summary**: Installing Pulse Desktop Client 9.0R2+ on macOS creating crippling performance hit over time.
PRS-371718	**Summary**: Kernel panic issues is observed on MAC Mojave (10.14) with Pulse Desktop Client version 9.0R3 (build 1599).
PRS-374606	**Summary**: Machine tunnel is not working as expected with DNS domain suffix and step up deletes domain from the list incorrectly.
PRS-372350	**Summary**: NSIS error message is thrown after installing Pulse Desktop Client through SCCM.

Problem Report Number	Summary
PRS-372096	**Summary**: Smart card (Certificate) authentication is failing with Pulse Desktop Client 9.0R3 after Gemalto SafeNet client is upgraded to 10.2.
PRS-372087	**Summary**: Overwrite DNS suffixes on Mac clients.
PRS-368845	**Summary**: Pulse| Random IPv4 resource is failing when ACL and split tunneling are configured with FQDN.
Release 9.1R1	
PRS-376174	**Summary:** Symbolic link creation fails after Pulse upgrade.
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

The following table lists known issues in the current release.

Problem Report Number	Release Note
Release 9.1 R3.1	
There are no new known issues for this release.	
Release 9.1 R3	
PRS-381992	**Symptom**: Intermittently PDC is prompting end-user to select the certificate when both Smart card plugged-in and user certificate presents. **Condition**: When PDC is upgraded from 9.XRY where X<= 1 and Y < 3 to 9.1R3. **Workaround**: Export/ import current config using Jamcommand to update connstore.

Problem Report Number	Release Note
PRS-381825	**Symptom**: 9.1R3 PDC latest strings are not localized. **Condition**: If end-user has 9.1R3 PDC. **Workaround**: None
PRS-381819	**Symptom**: Pulse Desktop Client UI is fluctuating on one of the HP models. **Condition**: End user uses HP EliteBook 840 G5. **Workaround**: None
PRS-381646	**Symptom**: Credential Provider feature does not work when there is no Tile present during user login. **Condition**: L3 and L2 CP feature will not work. **Workaround**: None
PRS-381585	**Symptom**: Admin should allow to enable any one option either "Windows secure Application manager" or "VPN Tunneling". **Condition**: When WSAM is enabled, PSAM also gets enabled as WSAM is now deprecated. Along with this VPN Tunneling option is not to be chosen as Pulse Secure Client will be enabled. **Workaround**: Choose either WSAM or VPN Tunneling option.
PRS-381449	**Symptom**: Still Downloads of NC and WSAM were allowed. **Condition**: Only admin users can download using URL. **Workaround**: None
PRS-381388	**Symptom**: Network Connect client will be able to upgrade and connect. **Condition**: Since we need to support existing Network Connect client users, the binary is a part of package. **Workaround**: Since upgrade is done as part of initial connect, no action is needed.
PRS-381170	**Symptom**: Home button does not appear after upgrade. **Condition**: On upgrading the pulse client. **Workaround**: Disconnect and connect back to the controller.
PRS-381151	**Symptom**: 5.2RX PDC clients are able to establish a successful tunnel in the absence of Client Auth EKU. **Condition**: When "Enable Automatic Client Certificate Selection" is enabled. **Workaround**: None
PRS-374068	**Symptom**: Un-installing of Pulse Desktop Client is asking for a reboot. **Condition**: Observed on Windows 10 OS RS6 i.e. 1903. **Workaround**: None
PRS-370025	**Symptom**: With the latest SRX OS UAC L3 connection is failing to establish. **Condition**: If SRX OS version is 15.X and above. **Workaround**: None
Release 9.1 R2	
PRS-377549	**Symptom**: Older PSIS is not upgrading to 9.1R2 PSIS version. **Condition**: When Pulse Desktop Client is deployed from 9.1R2 on Windows endpoints, PSIS is not upgraded to the latest version. **Workaround**: Old PSIS will continue to work and no impact seen.
PRS-378873	**Symptom**: Pulse Desktop Client is getting disconnected frequently after connecting to PCS on macOS. **Condition**: Endpoint should be dual stack. PCS should be configured for FQDN based split tunneling

Problem Report Number	Release Note
	with **Route Monitor** enabled. **Workaround**: Disable the option **Route Monitor**.

Release 9.1 R1

Problem Report Number	Release Note
PRS-373432	**Symptom:** For launching Pulse Desktop Client from the URL, the following are the prescribed parameters: • *connect* • *name* • *server* • *userrealm* • *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: 1. *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. 2. *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
PRS-374076	**Symptom:** When launching Pulse Desktop Client using URL, some characters in the *username* parameter might not get displayed in the Pulse Desktop UI as expected. **Condition:** Entering *username* parameter in the following URL: *pulsesecureclient://connect?name=NAME&server=SERVERURL&userrealm=REALM&username=**test&=user**&store=TRUE* 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 %26 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 *server* parameter. **Condition:** Entering differently worded values for the *server* 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

Problem Report Number	Release Note
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 Secure upgrade. **Workaround:** Upload the **junosepulse.pkg** and download the installers.
PRS-374876	**Symptom:** Unable to connect to Pulse Connect Secure Server from Pulse Desktop Linux Client. **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.
PRS-374627	**Symptom:** Wireless LAN L2 connection disconnects immediately when the LAN L2 connection is established. **Condition:** When FIPS is enabled for L2 wireless connection. **Workaround:** Disable the FIPS in wireless connection.
PRS-375458	**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. **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".*
PRS-375900	**Symptom:** Shutting down the client PC will trigger the machine tunnel. **Condition:** **Credential Provider** option is enabled, and the user shuts down the client PC. **Workaround:** None
PRS-375897	**Symptom:** Pulse Desktop Client will take few seconds to show as connected when the client PC goes from sleep mode to awake mode. **Condition:** **Credential Provider** option is enabled, and the client PC goes to sleep mode. **Workaround:** None
PRS-373995	**Symptom:** Pulse Desktop Client fails to trigger the Credential Provider. **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 9.1R1 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.

Problem Report Number	Release Note
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.
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: • ln: failed to create symbolic link '/usr/local/pulse/libjavascriptcoregtk-1.0.so': File exists • ln: failed to create symbolic link '/usr/local/pulse/libjavascriptcoregtk-1.0.so.0': File exists • ln: failed to create symbolic link '/usr/local/pulse/libwebkitgtk-1.0.so': File exists • ln: 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

Product Codes (GUIDs) for SCCM Deployments

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 the related version of the desktop client for the given the architecture (32-bit or 64-bit) and locale (language environment).

Language	Product Codes (GUIDs)
Release 9.1R3.1	
PulseSecure.x86.msi	
English	{453B9DF8-C824-4FF7-A30A-45057FC47B38}
Chinese (Taiwan)	{73A29004-6079-4054-B4E2-A142590E855F}
German	{B157C347-F8EC-4837-9C31-2747E5BFAF0B}
Spanish	{1866AD3F-7A86-472D-B697-22ACFE701F54}
French	{C6365279-9237-432D-AF50-0A9227DCE90A}
Italian	{ACC29DE3-2F20-4AD7-8690-F571050F7352}
Japanese	{16EB3D51-06BC-4FCE-AD72-473BEB2DE687}
Korean	{991527D4-6ECE-428E-9904-5CACDCF44CB7}
Polish	{4A10143C-AA40-4F06-BF17-7A82E4705D55}
Chinese (China)	{3F935EFF-8628-4683-B0FB-469BD03E97A2}
PulseSecure.x64.msi	
English	{A00173F0-88E9-4600-83B9-A2175D848898}
Chinese (Taiwan)	{099ABAB5-2FE7-4612-BAAD-E5AA89FDF3AB}
German	{3857ED90-67DA-4735-B3B8-834366F69AC0}
Spanish	{15425246-47A4-4C2E-BEE7-A7AA34B46B87}
French	{C8684A61-2DFF-4D38-AE89-2657FBEEEEBC}
Italian	{4831DCC6-89B3-4264-ABC6-B20F283ADB4B}
Japanese	{B6D4B748-AB1A-41DC-8943-69A6E7E2A60D}
Korean	{05013BE1-5DF4-484E-B1F5-E5CDFC639B32}
Polish	{8316156F-50CD-483D-B3E3-47A2387AF4E2}
Chinese (China)	{89ACC5BA-F2C5-479F-A61C-1701A1796431}
Release 9.1R3	
PulseSecure.x86.msi	
English	{82E5EEF6-4D31-481D-802D-EC1FCBFB04D8}
Chinese (Taiwan)	{B42F3689-2448-4D4D-AB07-FA54E2F3DBC6}

Language	Product Codes (GUIDs)
German	{D55F048A-1397-4C7B-9582-D3B215B6E855}
Spanish	{DF6CFDDE-ECA0-4A40-BA04-E1CAD05D2BF0}
French	{921F5395-76A1-4366-8C66-05F5776BC512}
Italian	{8D71216C-5DAA-4FE8-9F15-5C2BE52FA820}
Japanese	{6A2FD259-FF21-433B-ADFA-7FADB31DC194}
Korean	{A52117D6-5E2C-4FA1-BDF9-D074E294E93C}
Polish	{6FA8BC6F-506A-4136-AF5C-6F62F034CED1}
Chinese (China)	{8A7C2CEF-43A6-4D5F-A8BC-D494EE01AAE2}

PulseSecure.x64.msi

Language	Product Codes (GUIDs)
English	{3F1271DA-D808-41BA-B070-6522FF9D4C23}
Chinese (Taiwan)	{C509C6DE-B335-4E4D-82CA-495720594205}
German	{E8110F78-82A8-48E4-815C-6F60562DD753}
Spanish	{58ECBD03-AC3C-479C-A6AA-F0CFE725A469}
French	{D8449807-3489-49E4-9F59-EC71AA68F083}
Italian	{2FC48975-5904-4387-ADD0-3D51D4E44DE9}
Japanese	{FD4BC5BB-9E07-44C8-ACBA-63C98C863920}
Korean	{2D8E7DF8-C23B-42F5-95E4-FF22EDE9106D}
Polish	{B2DB488A-8102-4A9D-B1BE-4B26388E5B99}
Chinese (China)	{73E9D64F-A5F7-4792-807B-7BB67D627F2D}

Release 9.1 R2

PulseSecure.x86.msi

Language	Product Codes (GUIDs)
English	{25CFACD8-CAAC-4FA5-9054-34C58140B1D3}
Chinese (Taiwan)	{DD6DA542-4D51-4182-98CD-7F73A0B15B81}
German	{AA83EB42-3662-49DB-A6B9-7F70AA74E439}
Spanish	{605BC1B9-FF40-4073-A3D0-C943CC668DAF}
French	{7740527C-A2E4-42FD-8A12-F4337AB3DA17}
Italian	{B1ABE9F2-1C59-45B9-BB7F-EA1F4689A0FA}

Language	Product Codes (GUIDs)
Japanese	{32285458-FE60-481C-B618-0E50285C2C91}
Korean	{AEDDC0C0-756A-4DEC-9862-A88083535CA7}
Polish	{A549BAFC-D6D7-4A54-A147-3D72D7C082FB}
Chinese (China)	{4E8E635F-9443-4250-89F3-9D5F046AEA45}

PulseSecure.x64.msi

Language	Product Codes (GUIDs)
English	{DDFE22C2-8C81-45D6-8C95-932C1EDAD5EF}
Chinese (Taiwan)	{7031AF51-BC44-4C6D-8649-AC8D5F3FC796}
German	{F1133159-3AC3-41D1-A5BE-49958C4E3AA1}
Spanish	{A73D39F3-AE14-4BE5-823E-F42A79557956}
French	{C6B0EC3E-F8C1-4001-A2AF-8E23968460B4}
Italian	{B515EF30-FDB1-4200-A468-7BE0DEABED51}
Japanese	{0B5AB9AA-5639-4DB9-B429-D9E491B995CB}
Korean	{678B1E92-9DFC-4D6C-B6E8-AA6117249E55}
Polish	{198BB78A-1907-45BD-8DBC-36C2FC73AA95}
Chinese (China)	{8F7E1898-6918-4929-BCCB-55E259DD4364}

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PulseSecure.x86.msi

Language	Product Codes (GUIDs)
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}

Language	Product Codes (GUIDs)
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}

Documentation

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

Technical Support

When you need additional information or assistance, you can contact "Pulse Secure Global Support Center (PSGSC):

- 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).