

Pulse Policy Secure

Release Notes

PPS 9.1R4.2 Build 2853 Pulse Profiler Version 1.7 (FPDB Version 43) PDC 9.1R4.1 Build 1855 Default ESAP Version: ESAP 3.4.8

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Revision History

The following table lists the revision history for this document.

Revision	Month	Description
4.2	March	Updated for Release 9.1R4.2
4.1	February	Updated for Release 9.1R4.1.
4.0	January	Updated for Release 9.1R4.
3.2	November	Added PRS-385089 under Fixed Issue in Release 9.1R3.1.
3.1	November	Fixed Issues section is updated for Release 9.1R3.1
3.0	October	Updated for 9.1R3
2.0	July	Updated for 9.1R2
1.2	June	Added "Session Bridging for Linux Platform" under New Features in 9.1R1 Release.
1.1	Мау	Added PRS 371536, PRS 373619 under Fixed Issues in 9.1R1 Release.
1.0	April	Updated for 9.1R1

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Introduction

This document is the release notes for Pulse Policy Secure. It contains information about what is included in this software release: New features, known issues, fixed issues, product compatibility, and upgrade instructions.

Product Compatibility

Hardware Platforms

You can install and use this software version on the following hardware platforms:

PSA300, PSA3000, PSA5000, PSA7000F, PSA7000C

To download software for these hardware platforms, go to: https://www.pulsesecure.net/support/

Virtual Appliance Editions

This software version is available for the Virtual Pulse Secure Appliance (PSA-V) editions.

The following table lists the virtual appliance systems qualified with this release.

Platform	Qualified System
VMware	 HP ProLiant DL380 G5 with Intel(R) Xeon(R) CPU ESXi 6.7
KVM	 CentOS 6.6 with Kernel cst-kvm 2.6.32-504.el6.x86_64 QEMU/KVM v1.4.0 Linux Server Release 6.4 on an Intel Xeon CPU L5640 @ 2.27GHz 24GB memory in host Allocation for virtual appliance: 4vCPU, 4GB memory and 40GB disk space
Hyper-V	Microsoft Hyper-V Server 2016 and 2019
Azure-V	 Standard DS2 V2 (2 Core, 2 NICs) Standard DS3 V2 (4 Core, 3 NICs) Standard DS4 V2 (8 Core, 3 NICs)

To download the virtual appliance software, go to: https://www.pulsesecure.net/support/

Notes

- From 9.1R1, VA-DTE is not supported.
- From 9.0R1 release, Pulse Secure has begun the End-of-Life (EOL) process for the VA-SPE virtual appliance. In its place, Pulse Secure is launching the new PSA-V series of virtual appliances designed for use in the data center

New Features

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

Feature Release 9.1 R4	Description
Pulse Policy Secure on Azure platform	Provides NAC services (802.1x, MAC Auth, L3 Firewall Enforcement) to multiple on-premise networks using PPS deployed on Microsoft Azure cloud.
Huawei - Guest Access	Supports guest access use cases with Huawei WLC.
Mist Juniper WLC	Supports 802.1x and guest access with Juniper Mist WLC.
TACACS+ support for Arista Switch	Support Administrator access control for Arista.
Common Access Card (CAC) support with TACACS+	Supports TACACS+ authorization using Pulse Policy Secure. Authentication is performed by the third-party authentication server.
Provisioning only User-ID information to PAN firewall	Provides an option to admin in Auth table mapping policy to push only IP-User mapping to Palo Alto Networks firewall.
System Local user attribute support (Framed-IP- Address)	Allows to define user Attributes for system local server and associate those attributes to user names, including Framed-IP address. Values of those attributes to be defined for each user name.
Strong Hash	Supports protecting passwords stored in local authentication server using strong hash.
Release 9.1 R3	
VSYS Support in PAN	Pulse Policy Secure supports provisioning user identity and resource access/IoT policies to multiple VSYS or specific VSYS (other than vsys1) on PAN firewall.
IBM QRadar Integration	Pulse Policy Secure along with IBM QRadar provides user access control based on threats/events received from IBM QRadar.
Splunk Integration	Splunk alert based integration supports sending alert information from Splunk to Pulse Policy Secure. PPS uses its existing functionality of admission control, L2/L3 enforcement and provides role-based access control to secure the network.
Fortinet Identity management using RADIUS accounting messages	Pulse Policy Secure supports integration with FortiGate firewall using RADIUS accounting messages.
Mysql support	Pulse Policy Secure supports MYSQL as external Authentication server.
Local user account import through CSV in System local DB	Allows importing user accounts via CSV file in System local auth server. The local authentication server is an authentication database that is built in to PPS.
SNMP Enforcement using ACL for 3Com, DELL	SNMP ACL enforcement support is now expanded for 3Com and Dell switches.
SNMP Enforcement using VLAN for 3Com, Juniper and DELL	SNMP VLAN enforcement support is now expanded for 3Com, Juniper and Dell switches.
One-to-One NAT support	PPS allows auth table provisioning for the endpoints behind NAT (One-to One NAT mapping).
vTM and PPS Integration for Load Balancing	The Platform Limit, Maximum Licensed User Count and Cluster Name attribute values are available for optimal load balancing.
Release 9.1 R2	
Alert based integration with Nozomi Networks	PPS along with Nozomi Networks provides threat detection and threat response in ICS/OT environment.
Backup configs and archived logs on AWS S3/Azure Storage	Two new methods of archiving the configurations and archived logs are available apart from SCP and FTP methods: PPS/PCS supports pushing configurations and archived logs to the S3 bucket in the Amazon AWS deployment and to the Azure storage in the Microsoft Azure deployment.

EasiSMS Gateway Support	PPS supports EasiSMS gateway through the SMTP server. EasiSMS uses an email format to send SMS to end user mobile phones.
Flag Duplicate Machine ID in access logs	Pulse client expects the machine ID is unique on each machine. If multiple endpoints have the same machine ID, for security reasons, the existing sessions with the same machine id are closed. A new access log message is added to flag the detection of a duplicate Machine ID in the following format: Message: Duplicate machine ID " <machine_id>" detected. Ending user session from IP address <ip_address>. Refer document KB25581 for details.</ip_address></machine_id>
Migration of Cisco ACS RADIUS/TACACS+ client configuration to PPS	Migrating RADIUS/TACACS+ client configuration configured on the Cisco ACS device.
Report Max Used Licenses to HLS VLS	The licensing client reports maximum used sessions count instead of the maximum leased licenses count. For MSP customers, this change helps in billing the tenants based on maximum sessions used.
V3 to V4 Opswat SDK migration	PPS supports the migration of servers and clients to Opswat v4 to take advantage of latest updates.
VA Partition	 PCS/PPS supports upgrading from PCS 8.2Rx/ PPS 5.3Rx to 9.1R2 for the following supported platforms: VMWare ESXi KVM Hyper-V When upgrading a VA-SPE running PCS 8.2R5.1/PPS 5.3Rx or below that was deployed with an OVF template to a higher version, the upgrade was failing. This feature solves the upgrade problem for VMWare, KVM and Hyper-V. Refer <u>KB41049</u> for more details.
Profiler	
Profiler dashboard update	Profiler dashboard supports chart for Profile Groups. This chart is also part of downloaded PDF report.
Windows defender and Microsoft Security Essentials support	s Agentless Host Checker with Profiler supports Windows defender and Microsoft Security Essentials.
Profiler RestAPI support for approval functionality	Allow admin to approve/disapprove a device from his email or using the Rest API.
Match Device attributes with LDAP attributes	This is an LDAP enhancement. This feature allows to Identify the corporate device for pure agentless scenario by comparing device attributes with LDAP attributes.
Release 9.1 R1	
DNS traffic on any physical interface	Prior to 9.1R1 release, DNS traffic was sent over the Internal interface. Starting with 9.1R1 release, an administrator can modify the DNS setting to any physical interface namely Internal Port, External Port or Management Port.
Google Auth Multi Factor Authentication	TOTP server can be added as a secondary auth server in PPS.
Machine certificate check on MacOS	Machine certificate check on Mac OS is now supported for PPS.
Meraki 802.1x and Guest Access support	802.1X and Guest Access support is qualified with Cisco Meraki WLC.
RADIUS server capability on External port	PPS supports RADIUS server authentication and 802.1X authentication using external port. Activate "Enable Auth Traffic Control" under Authentication servers to enable sending RADIUS traffic or receiving RADIUS traffic to PPS (as a RADIUS server) through external interface.
SAML Auth Server support	PPS can be configured as SAML service provider (SP) for all industry standard SAML IdP's.
Session bridging for Linux Platform	PPS supports bridging the Layer 2 Native Supplicant 802.1X session with Layer3 Agentless (Browser based) Session on Linux platform.
Session Migration using Cert authentication	t Session migration in an IF-MAP federated network supports Cert Auth and SAML auth
SNMP Enforcement using ACL (Cisco, HP, Juniper)	SNMP enforcement using ACL is supported for Cisco, Juniper and HP switches.

TACACS+ Enhancements –

DB sync, pass back TACACS+ authorization support for Administrators using custom attributes for Juniper and F5 devices. attributes to devices such as TACACS+ configuration synchronization across WAN cluster F5 and Juniper

Profiler	
Distributed Profiler Enhancements	The Administrators can sync the profiled data from one Profiler to another from the profiler auth server configuration page. Multiple branch offices can sync their profiled data to central office. Admin can view the Device Discovery Report to view and control the multiple offices.
Profiler Device Age Out	Profiler device age-out interval configuration allows admin to automatically delete the devices from the database. Admin can define the age-out interval for a group of devices also using Profile Groups
Profile Windows devices using SNMP(HOST)	SNMP-HOST Collector is a collection method that receives endpoint information where the endpoints are monitored through SNMP. Admin can configure subnets to scan and community strings in profiler auth server configuration page.
Approval for Profile Groups	Administrator can select "needs approval" for selected Profiler group.
Key-value based search in DDR	Administrator can search in DDR with key value-based query. Query syntax is similar to that of profile groups.
Publishing IP address from Profiler to Active User Session	Admin can add IP address from Profiler to active session for L3 enforcement when RADIUS accounting is not enabled. This is supported only for MAC auth and dot1X.
Huawei switches added in supported list for Network Infrastructure Device	Admin can select Huawei switch from supported list in network infrastructure device page.

Noteworthy Changes

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

Feature	Description
Release 9.1 R3	
OAC Client Removal	OAC client is deprecated beginning with Release 9.1R3.
Profiler	
Note: For release 9.1	R3, the minimum version of the fingerprints package supported is 41.
1 Note : For release 9.1 NMAP Upgrade	R3, the minimum version of the fingerprints package supported is 41. Upgraded NMAP database and Binary for improving the detection and classification of new devices.

Fixed Issues

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

Problem Report Number	Description
Release 9.1 R4.2	
Profiler	
PRS-387461	Summary : While forwarder full-sync is in progress and new devices are getting discovered full-sync was aborted and restarted.
Release 9.1 R4.1	
PRS-385491	Summary : TLS handshake failed error message observed due to state variable in RADIUS access request is fixed.

Profiler Pr	Release 9.1 R	4
PRS-380327 Summary: Devices in Network Infrastructure Device are in Undiscovered state after importing Devices PRS-380855 Summary: Profiler is polling deleted switches once after deletion. Release 9.1 R3.1 PRS-382319 PRS-382319 Summary: Part Bounce issue for SNMP VLAN enforcement with Clisco switch is now fixed. PRS-382087 Summary: Duplicate machine ID feature is reverted as part of this PR. PRS-384666 Summary: Duplicate machine ID feature is reverted as part of this PR. PRS-384736 Summary: trap-collector" consuming high CPU during startup. PRS-384736 Summary: trap-collector" consuming high CPU during startup. PRS-38572 Summary: due config on PPS set the default 'Account Lockout' values to zero for 'Suest Authentication server and this value cannot be modified or swed. PRS-37903 Summary: New device anomaly is not detected when connecting to Pulse via embedded browser PRS-37797 Summary: In dashboard, Profiler name not retained when revisiting the same page after moving to a page. PRS-378260 Summary: Factory reset from VMware VA console does not load the factory reset version and loads the constraint's while each profile of the authentication' and 'termination' options in radius Return Attribute policy page interchanged. PRS-378265 Summary: Next Checker service in Fulse scashing while performing policy monitoring when pulse client retry. <th>PRS-382021</th> <th>Summary: Dismiss until next upgrade option is not working for banner related to perpetual licensing.</th>	PRS-382021	Summary: Dismiss until next upgrade option is not working for banner related to perpetual licensing.
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Summary: Port Bounce issue for SNMP VLAN enforcement with Cisco switch is now fixed. PRS-382319 Summary: TNCS process fails randomly on the server while evaluating the Host Checker policies. PRS-382066 Summary: Duplicate machine ID feature is reverted as part of this PR. Profiler PRS-384066 PRS-384736 Summary: Trap-collector process restarting due to high memory usage. PRS-385572 Summary: Trap-collector "consuming high CPU during startup. Release 9.1 R3 Summary: Clear config on PPS set the default "Account Lockout" values to zero for "Guest Authentication server and this value cannot be modified or saved. PRS-376079 Summary: Clear config on PPS set the default "Account Lockout" values to zero for "Guest Authentication server and this value cannot be modified or saved. PRS-377371 Summary: New device anomaly is not detected when connecting to Pulse via embedded browser PRS-377371 Summary: New device anomaly is not detected when revisiting the same page after moving to ar page. PRS-3776375 Summary: In dashboard, Profiler name not retained when revisiting the same page after moving to ar page. PRS-376265 Summary: Nat Post sending auth table is crashing while performing policy monitoring when pulse client revision. PRS-377269 Summary: Totory reset from VMware VA console does not load the factory reset version and loads the coversion.		
PR5-382319 Summary. Port Bounce issue for SNMP VLAN enforcement with Cisco switch is now fixed. PR5-382287 Summary. TNCS process fails randomly on the server while evaluating the Host Checker policies. PR5-382509 Summary. Duplicate machine ID feature is reverted as part of this PR. Profiler PR5-384666 Summary. Trap-collector process restarting due to high memory usage. PR5-385372 Summary. Trap-collector' consuming high CPU during startup. Release 9.1 R3 Summary. Clear config on PPS set the default 'Account Lockout' values to zero for 'Guest Authenticator server and this value cannot be modified or saved. Summary. Reveare and this value cannot be modified or saved. Summary. The proceed of the save set of the save se		
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Summary: Duplicate machine ID feature is reverted as part of this PR. Profiler Profiler PRS-384665 Summary: PPS web interface is running extremely slow. PRS-38467 Summary: trap-collector process restarting due to high memory usage. PRS-38667 Summary: frap-collector* consuming high CPU during startup. Release 9.1 R3 Summary: Clear config on PPS set the default 'Account Lockout' values to zero for 'Guest Authentication server and this value cannot be modified or saved. Summary: End user always gets the remediation role even after endpoint meets all the End Point Secur Policies. PRS-37903 Policies. Pass 379003 Policies. PRS-37757 Summary: In dashboard, Profiler name not retained when revisiting the same page after moving to an page. PRS-376512 Summary: Indashboard, Profiler name not retained when revisiting the same page after moving to an page. PRS-376465 Summary: Indashboard, Profiler name not retained when revisiting the same page after moving to an page. PRS-376465 Summary: Indashboard profile name not retained when revisiting the same page after moving to an page. PRS-376465 Summary: Indashboard Profiler name not retained when revisiting the same page after moving to an page. PRS-376465 Summary: Indashboard Profiler name not retained when revisiting the sam	PRS-382319	Summary: Port Bounce issue for SNMP VLAN enforcement with Cisco switch is now fixed.
Profiler PRS-346666 Summary. PPS web interface is running extremely slow. PRS-344736 Summary: trap-collector* consuming high CPU during startup. PRS-345372 Summary: Trap-collector* consuming high CPU during startup. PRS-376979 Summary: Clear config on PPS set the default 'Account Lockout' values to zero for 'Guest Authentication' server and this value cannot be modified or saved. PRS-377971 Summary: New device anomaly is not detected when connecting to Pulse via embedded browser PRS-3779757 Summary: PPS not sending auth table entry to correct vsys in PAN firewall Profiler Summary: In dashboard, Profiler name not retained when revisiting the same page after moving to ar page. PRS-377575 Summary: In dashboard, Profiler name not retained when revisiting the same page after moving to ar page. PRS-376265 Summary: Invalid character error seen while adding Radius Return attribute value which contains "«" and characters. PRS-372699 Summary: NMAP scan profiling is inaccurate PRS-3722699 Summary: Belavior of "re-authentication" and "termination" options in radius Return Attribute policy page interchanged. PRS-374583 Summary: Belavior of "re-authentication" and "termination" options in radius Return Attribute policy page interchanged. PRS-374583 Summary: Belavior of "re-authentication" and "termination" options in radius Return Attribute policy page interchanged. <td>PRS-382287</td> <td>Summary: TNCS process fails randomly on the server while evaluating the Host Checker policies.</td>	PRS-382287	Summary: TNCS process fails randomly on the server while evaluating the Host Checker policies.
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Trofiler RRS-378960 Summary: In dashboard, Profiler name not retained when revisiting the same page after moving to ar page. Release 9.1 R2 RRS-376312 Summary: Factory reset from VMware VA console does not load the factory reset version and loads the conversion. RRS-376265 Summary: Invalid character error seen while adding Radius Return attribute value which contains "<" and characters.	PRS-377371	Summary: New device anomaly is not detected when connecting to Pulse via embedded browser
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	PRS-374368	
PRS-371536 Summary: Host Checker: Virus Definition Check for undates fails for K7 Virus Security 7FRO (14 v)	PRS-374477	Summary: Fortinet admission control feature will not work with domain users (AD).
Summary, rost encentry with Deminion encentry apartes fails for it? With Security Zero (14.8),	PRS-371536	Summary: Host Checker: Virus Definition Check for updates fails for K7 Virus Security ZERO (14.x),

PRS-373619

Known Issues

The following table lists the Known issues in the current release.

Problem Report Number	Description
Release 9.1 R4	
PRS-386989	 Symptom: Mist is not sending class attribute and hence PPS unable to map session for incoming accounting request due to which the accounting stop will not remove the session from the PPS after Guest disconnects from SSID Condition: When SSID is disconnected from the endpoint by the Guest without logging out from the active session Workaround: Manually remove the active session from Mist controller Or Provide lower session timeout value
	for Guest users in PPS.
PRS- 387688	Symptom: Inappropriate error is displayed when admin checks for 'Test Intune Connection'.Condition: Admin adds Intune as an MDM server and clicks Test Intune Connection.Workaround: Admin can ignore and use Save Changes option for Intune server.
PRS- 387494	Symptom: Mist is not sending class attribute and hence PPS unable to map session for incoming accounting request and hence IP is not getting updated in the Active Users page in PPS Condition: When active Guest session is formed Workaround: NA
PRS-384976	 Symptom: Host Checker error found intermittently while installing Pulse Client using Chromium Edge browser with Host Checker configured. Condition: Host Checker configured. Workaround: Click on Ignore button.
Profiler	
PRS-387717	 Symptom: The "View all 'Unapproved Devices'" link in E-mail received by admin for Device Approval does not redirect to Device Discovery Report. Condition: If Admin has configured Profiler to get email for any specific device types. (This setting is in 'Device Sponsoring' section of Profiler Configuration and in Profile Groups also) Workaround: Instead of using link from Email, admin can login to PPS and filter for "Unapproved Devices" in Device Discovery Report.
Release 9.1 R3	
PRS-381239	Symptom: CSV import to System local database will fail with error message as "Invalid User Name. Only ASCII characters are allowed" on PPS UI. Condition: When username in the CSV file to be imported to System local database involves characters apart from ASCII Workaround: None
PRS-382287	 Symptom: TNCS on the server crashes intermittently during the HC policy evaluations. Condition: With Opswat policies configured on the server, TNCS on the server crashes intermittently during the Opswat policies evaluation. Workaround: If Opswat policy evaluation fails for a specific end user, he/she may need to re-authenticate for getting the required access.
PRS-381394	 Symptom: Microsoft Excel is changing the format of CSV file while saving. Condition: User tries to edit the CSV file using MS Excel. Workaround: User should make sure that CSV file fulfil all condition of CSV file format. Open file in simple editor like: notepad++, vim.
PRS-381554	Symptom: Policy evaluation failed on macOS 10.14x or any higher versions for a file rule configured to validate a file location with System default Directories <%HOME%> Condition: Hostcheck policy with File Rule for macOS 10.14.x or higher versions for a file located at System Directories <%HOME%> Workaround: Need to add permissions for "Pulse Client" under "Accessibility" and "Full Disk Access" and which can be accessed from System Preferences > Security & Privacy Or without providing permission /tmp location can be used for File validation.
PRS-380471	 Symptom: PPS upgrade to 9.1R3 will not update the connection set and component set of the user role configured with Odyssey Access client settings. Condition: Fresh installation of Pulse client or migrating from OAC to Pulse client Workaround: OAC migration guide will help the administrators to configure the connection set and component set and map the same to appropriate roles.

Release 9.1 R2	
	Symptom: Cache server is continuously crashing in Longevity setup. Unable to open admin UI, crash messages
PRS-378002	display. Condition: When cache memory is hitting more than 512mb this crash has been observed. Workaround: NA, rollback and upgrade to latest version to start the test again.
PRS-378052	Symptom: SMTP Port 465 is not working for PPS guest user. Condition: Under SMTP settings, port 465 should also supported for Guest user. Workaround: SMTP port 587 with selecting SSL works in case of guest.
	Symptom: Radius Disconnect message (DM) is not working after importing user.cfg configuration from the
PRS-379012	previous release. Condition: When previous configuration (from 9.0R1) is loaded onto the box, overwrites the default radius.dct. "Funk-Dest-IPv6-Address" attribute is missing in the old dictionary. Workaround: After restoring the dictionary to factory default, DM is sent to the switch and session is disconnected.
PRS-379063	 Symptom: While performing L3 followed by L2 and frequently enable/disable migration option some time SDKs are replacing next periodic host check Conditions: On Windows Platform using Pulse performing L2 authentication with Host Check enabled on Role/Realm with Migration feature enabled. Workaround: For replacing expected SDKs wait for next periodic Handshake or Disconnect and again connect to server using Pulse.
PRS - 377549	Symptom: PSIS is not upgrading to the 9.1R2 version. Condition: When CTS, WTS and VDI gets upgraded to 9.1R2 in Win10RS5+. Workaround: NA
Profiler	Workdround. WA
PRS-378960	Symptom: Selected profiler name not retained in profiler dashboard. Condition: In dashboard, Profiler name not retained when revisiting the same page after moving to another page. Workaround: NA
PRS-378956	 Symptom: Linkdown Trap is not updating device link status in Device Discovery Report when profiler processes for the first time. Condition: Profiler not processing Linkdown Trap without Linkup trap update in Device Discovery page for the device. Workaround: NA
PRS-377534	Symptom: Profiler report downloaded from Admin UI always captures the charts in default styles even though admin has changed some of the chart styles on the Dashboard page Condition: Administrator downloading of profiler report from Profiler Dashboard page Workaround: NA. Currently, profiler report is always generated with the default chart types.
Release 9.1 R1	
PRS-372687	 Symptom: RADIUS CoA disconnect for Splash sign on page in Meraki WLC does not acknowledge the session disconnect message sent by PPS. Conditions: Guest session will be deleted from PPS, but the session will be active on WLC for the default timeout period of the guest session on Meraki WLC. Workaround: Admin can login to Meraki dashboard and de-authorize the guest manually from Wireless > Splash logins page. In addition to that, we have raised an enhancement request to Meraki to support COA disconnect on splash sign on page with radius authentication.
PRS-372794	 Symptom: RADIUS Accounting stop message is not sent by Meraki when guest logs out or gets disconnected from Guest SSID Conditions: The Guest session will remain active on PPS for the duration of Maximum Session Length (default=725 mins). Workaround: Admin can login to Meraki dashboard and de-authorize the guest manually from Wireless >Splash logins page which will immediately send the Accounting stop message from Meraki to PPS.
PRS-373861	 Symptom: TACACS+ Accounting start and stop messages are not sent by BIG IP F5 device Condition: PPS may have stale sessions as it does not receive stop accounting packets. However, these sessions are deleted from PPS when Maximum Session Timeout expires. Workaround: NA. If there is any stale TACACS+ session on PPS, it does not cause any security risk as any TACACS+ login is controlled by the BIG IP F5 device.
PRS-372849	 Symptom: Session migration fails for secondary auth server. User is prompted with secondary auth server password. Condition: If secondary auth server is configured for session migration. Workaround: NA
PRS-376312	Symptom: Factory reset from VMware VA console does not load the factory reset version and loads the current version. Conditions: When trying to do factory reset to 9.1R1 from higher version in VMware-VA

	Workaround: Factory reset is possible by manual intervention. After successful 'Factory reset' command given
	from console, Virtual Appliance will reboot and will display three options in LILO menu:
	-Current version
	-Rollback version
	-Factory reset version
	Admin need to manually select the Factory reset version for the factory reset to happen successfully on VMware VA.
	Symptom: Session migration fails for 802.1X authentication.
PRS-372250	Condition : When the user tries to migrate the 802.1X sessions from PPS to PCS. Workaround : NA
	Symptom: Firewall SOH policy evaluation fails for domain user when Private and Public Networks profiles in Windows Firewall are not turned ON.
PRS-374476	Condition: When Private and Public network profile for domain user is not turned ON for Windows firewall. Workaround: NA
DC 274020	Symptom: Profiler SNMP polling messages might be shown twice in event logs with in few seconds. even sometimes 'Switch poll error: Failure in send to.' in logs.
PRS-374820	Condition: If network infrastructure devices config imported using binary/xml Workaround : NA. This might happen once.
	Symptom: L3 session is established with Internal IP while performing L3 followed by L2 using Pulse with PPS External VIP address.
PRS-374663	Conditions: When PPS nodes are in cluster and external port is used for RADIUS authentication. Workaround: NA
	Symptom: SAML authentication failed with error "Missing/Invalid sign-in URL" despite correct credentials while using PDC embedded browser version 9.0.1.
PRS-360616	Condition : Using PDC browser version 9.0.1 with PPS version 9.1R1. Workaround : Use latest PDC version with Release 9.1R1.
PRS-366966	Symptom: Juniper Connector UI provides option to select TCP ports for communicating with PPS. However,
	PPS connector always use port 443, making the selected TCP port ineffective.
	Conditions: Configuring PPS as connector in Juniper PE.
	Workaround: Ensure that the Port number is always set to 443.
PRS-367195	Symptom: While configuring the Pulse Policy Secure connector in Juniper PE, administrator need to enter the
	system-local administrator credentials as PPS admin and AD user account cannot be used for generating RES
	API key for PPS-Juniper PE communication.
	Conditions: Configuring PPS as Connector in Juniper PE.
DC 267204	Workaround: Juniper SDSN integration with PPS requires creating a local Admin user on PPS.
RS-367291	Symptom: Certificate Authentication fails due to configuration of "Skip Revocation when OCSP/CDP server is
	not available" for HC policy enforced at realm level.
	Condition : When admin enables Skip Revocation check and OSCP server is not reachable. Workaround : Set the OSCP timeout to less than 5 seconds.
RS-368055	Symptom: Admin is allowed to create anomaly role mapping rules based on custom expressions when UEBA
10 000000	license is not installed.
	Condition: Configuring anomaly role mapping rules based on custom expressions when Behavioral Analytics
	license is not installed
	Workaround: Install Behavioral Analytics License.
PRS-366296	Symptom: Authentication to PPS fails as Duo custom sign-in pages are not displayed.
PRS-369738	Condition: User authenticates to PPS and assigned realm is configured with Duo as secondary authentication
	server.
	Workaround: Use passcode-based Duo authentication.
RS-367024	Symptom: Authentication fails for browser-based login for Duo and LDAP combination with predefined user a
	
	Condition: User authenticates to PPS and assigned realm is configured with Duo as primary and LDAP as
	secondary auth server Workaround : Use passcode-based Duo authentication.
RS-368136	Symptom: VIP failover fails in A/P cluster when the Active node becomes unreachable with SPAN configured c
12-200120	external port.
	Condition : Active node becomes unreachable in A/P Cluster with Local SPAN enabled on cluster nodes'
	external port.
	Workaround: Configure Remote SPAN.
2RS-368689	Symptom: OS Check rule is not supported when trying to connect from 9.0R3 Pulse client to old PPS
FR3-300009	(9.0R2\9.0R1) server on MAC OS platform.
	Condition : When OS check Host checker rule is evaluated with new Pulse client connecting to pre-9.0R3 PPS
	server.
	Workaround: Pulse client on MAC platform and PPS server need to be 9.0R3 for OS Check host checker policy
	to work as expected.

PRS-368967	Symptom : Host checker fails on Mac OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in ESAP is enabled.		
	Condition: When ESAP with V3 SDK is activated on the server.		
	Workaround: Administrator should activate ESAP with V4 SDK on PPS for Host check to work as expected.		
PRS-376265	Symptom: Invalid character error seen while adding Radius Return attribute value which contains "<" and ">"		
	characters.		
	Condition: While creating new Radius Return attribute value or editing existing Radius Return attribute value		
	which contains "<" and ">" characters.		
	Workaround:		
	1) Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radius		
	Return attribute value, please follow step 2. 2) Fresh Deployment: To add Radius Return attribute value which contains "<" and ">" characters, export XML		
	file from Maintenance >Import\Export >Export XML and add\modify the Radius Return Attribute value in		
	Exported XML and then import the same XML from Maintenance >Import\Export->Import XML.		
Profiler			
PRS-369079	Symptom: For Agentless Host Checker with Profiler, Antivirus Rule with "virus definition age" check may fail.		
	Conditions: Windows registry does not maintain the timestamp, when last virus definition was installed. Time is		
	taken as midnight time (00:00:00) of the date, when the last definition was installed.		
	Workaround: Create the rule with (expected number of definition age + 1) days.		
PRS-367687	Symptom : Remote profiler is unable to communicate with Profiler; hence the remote endpoints are not profiled.		
	Conditions: If self-signed certificate is used on Profiler Authentication server.		
	Workaround: Using a CA signed certificate on Profiler server.		
PRS-361246	Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through		
	Binary configuration.		
	Conditions: Importing profiler data using Binary configuration.		
	Workaround: Reconnect the existing user session.		
Cloud Application Visibility			
PRS-370268	Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer for		
	a resource.		
	Condition: Juniper SRX is configured as Infranet Enforcer. Workaround: N/A		
PRS-370249	Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access		
	point.		
	Condition : Authenticator is a third-party device and is configured to use PPS as authenticating server.		
	Workaround: N/A		
PRS-370237	Symptom: CAV policy updates are not sent to PPS if CAV Database is updated with PCS IP address.		
	Condition: If CAV database at client side is updated with PCS IP address and the user establishes L2/L3		
	connection.		
	Workaround: N/A		
PRS-370123	Symptom: DNS resolution fails after CAV is re-enabled at user role level.		
	Conditions: If already added user role is deleted from the CAV policies.		
	Work Around: - N/A		
PRS-369277	Symptom: CAV feature does not work when Pulse SAM is enabled on client.		
	Conditions: Pulse SAM and CAV enabled for the same role. Work Around: - N/A		
PRS-369891	Symptom: Authentication token fetching is failing under NATed environment on Pulse client for CAV policies		
	update.		
	Conditions: PCS configured behind a NAT device.		
	Work Around: N/A		
PRS-369279	Symptom: Lockdown is not working properly if CAV policies are configured.		
	Conditions: Enabling CAV with lock down.		
	Work Around: N/A		

Upgrade Instructions

Upgrade Paths

The following table describes the tested upgrade paths.

Upgrade From	Qualified	Compatible
9.1R4	Yes	
9.1R3.1	Yes	
9.1R2	Yes	
9.1R1	Yes	
9.0Rx	Yes	
9.0Ry		Yes
5.4Rx	Yes	
5.4Ry		Yes

🕖 Note:

If your system is running beta software, roll back to the previously installed official software release before upgrading. This practice ensures the rollback version is a release suitable for production.

Upgrade Scenario Specific to Virtual Appliances

PSA-V cannot be upgraded to current release without core license. Follow these steps to upgrade to the current release:

- 1. If PSA-V is running 5.3Rx:
 - a. Upgrade to 5.4R3 or later.
 - b. Install Core license through Authcode.
- 2. If PSA-V is running 5.4R1:
 - a. Upgrade to 5.4R3 or later.
 - b. Install Core license through Authcode.

General Notes

For policy reasons, security issues are not normally mentioned in release notes. To find more information about our security advisories, please see our **security advisory page**.

Documentation

Pulse Secure 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://support.pulsesecure.net
- support@pulsesecure.net
- Call us at 1-844-751-7629 (toll-free USA)

• For more technical support resources, browse the support website **https://support.pulsesecure.net**

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