

# Pulse Policy Secure

Release Notes

PPS 9.1R6 Build 3007 Pulse Profiler (FPDB Version 44) PDC 9.1R6 Build 2223 Default ESAP Version: ESAP 3.4.8

Release Build9.1R6, 3007PublishedMay 2020Document Version4.4

Pulse Secure, LLC 2700 Zanker Road, Suite 200 San Jose, CA 95134 https://www.pulsesecure.net

© 2020 by Pulse Secure, LLC. All rights reserved

Pulse Secure and the Pulse Secure logo are trademarks of Pulse Secure, LLC in the United States. All other trademarks, service marks, registered trademarks, or registered service marks are the property of their respective owners.

Pulse Secure, LLC assumes no responsibility for any inaccuracies in this document. Pulse Secure, LLC reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

The information in this document is current as of the date on the title page.

#### END USER LICENSE AGREEMENT

The Pulse Secure product that is the subject of this technical documentation consists of (or is intended for use with) Pulse Secure software. Use of such software is subject to the terms and conditions of the End User License Agreement ("EULA") posted at **https://www.pulsesecure.net/support/eula**. By downloading, installing or using such software, you agree to the terms and conditions of that EULA.

# Revision History

The following table lists the revision history for this document.

Revision	Month	Description
4.4	May	Updated for Release 9.1R6.
4.3	April	Updated for Release 9.1R5.
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	May	Added PRS 371536, PRS 373619 under Fixed Issues in 9.1R1 Release.
1.0	April	Updated for 9.1R1

## Contents

Revision History	
Introduction	5
Product Compatibility	5
New Features	
Noteworthy Changes	9
Fixed Issues	9
Known Issues	
Upgrade Instructions	
Documentation	
Technical Support	

## 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)
Amazon Web Services (AWS)-V	s T2.Medium (2 Core, 2 NICs) s T2.Large (4 Core, 3 NICs and 2 NICs) T2.Xlarge (8 Core, 3 NICs and 2 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 R6	Description
Show Serial Number under Licensing Tab	The PPS Licensing tab (System > Configuration > Licensing) now displays the Serial Number.
Hardware ID is available on System Maintenance Tab	The Hardware ID is now included in System Maintenance > Platform tab.
Host Checker policies hyperlinked to policies page	Host Checker policies is now clickable (hyperlink) in User Realms page.
Release 9.1 R5	
Pulse Policy Secure on Amazon Web Services (AWS)	Provides NAC services (802.1x, MAC Auth, L3 Firewall Enforcement) to multiple on-premise networks using PPS deployed on Amazon Web Services (AWS) cloud.
SNMP policy enforcement (Alcatel- Lucent, Huawei, Arista)	SNMP policy enforcement is now supported on Alcatel-Lucent, Huawei and Arista switches.
McAfee ePolicy Orchestrator (ePO) integration	Pulse Policy Secure (PPS) integration with the McAfee ePolicy Orchestrator (ePO) provides complete visibility of network endpoints and provide end to end network security. The PPS integration with McAfee ePO allows Admin to perform user access control based on alerts received from the McAfee ePO.
Splunk syslog add-on and Dashboard app	Splunk application for PPS uses the indexed data to render various charts and to show useful information on dashboard. The Pulse Secure App for Splunk allows you to view PPS data in a dedicated, customizable Splunk dashboard. This bidirectional interaction with Splunk allows security managers to quickly monitor the current operational/security posture.
MSSQL support on PPS with external DB	PPS supports MSSQL as external Auth server for 802.1x and Layer 3 authentication.
IPv6 Support for Syslog, NTP and Log Archive	PPS now supports sending syslog messages to a syslog server using IPv6 address. Time synchronization using NTP server is now supported with IPv6 address. PPS also supports transferring archived PPS logs using FTP and SCP over IPv6 network.
SBR to PPS migration	SBR configurations (802.1x and Mac Address Authentication) can be migrated to PPS using XML import.
ECC certificate support for Juniper SR	PPS now supports Elliptic Curve Cryptography (ECC) certificate for SRX firewall connections.
Host Checker policy to detect hard disk Encryption in progress	Host Checker policy to allow detection of hard drive encryption in progress.
PDF report capability	This feature in PPS allows the user to download the reports (User Summary Report, Single User Activities, Device Summary, Device Discovery, Single Device Activities, Authentication, Compliance, Infected Devices) in PDF format. Apart from the CSV, Tab Limited option, there is an option called PDF provided in PPS Reports.
Profiler	
Backup and Recovery, and Disaster management	Profiler deployments provides backup mechanism for enhanced disaster management (Profiler Forwarder, Remote Profiler, Centralized Standalone Profiler).
Viptela Switch Support	Viptela Switch support is added for SNMP Visibility.
Release 9.1 R4	
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 <u>KB25581</u> 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	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	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 attributes to devices such a F5 and Juniper	TACACS+ authorization support for Administrators using custom attributes for Juniper and F5 sdevices. TACACS+ configuration synchronization across WAN cluster
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 Admin can select Huawei switch from supported list in network infrastructure device page. list for Network Infrastructure Device

## 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	
<b>Note</b> : For release §	0.1R3, the minimum version of the fingerprints package supported is 41.
	TRS, the minimum version of the migerprints package supported is 41.
NMAP Upgrade	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	Summary
Release 9.1R6	
PRS-390130	PPS now sends the appropriate status code for authentication failure in Cisco Switch.
PRS-388996	CSV export of Profiler Device Discovery Report with large number of entries (>50,000) can now be performed without any failure.
PRS- 388645	After upgrading PPS to 9.1R3-9.1R5, slow Host Checker response is observed due to a very frequent re-evaluation of Cybereason Active Probe product.
PRS-389276	The corruption of blob during the epupdate results in Host Checker scan failure for users till next successful epupdate.
Release 9.1 R5	5
PRS- 387688	Inappropriate error displayed for 'Test Intune Connection is fixed. Appropriate error message is displayed.
PRS-381678	Cluster Enhancement: Improve VIP unreachable time during cluster upgrade. This works for cluster with version running release 9.1R5 and later.
PRS-380303	ECC device certificate support on PPS is now added for SRX connection. Juniper added ECC device certificate support from Junos Release 15.X.
PRS-382340	Dashboard was reporting incorrect Session based OS count in graphs. This issue has been fixed.
PRS-384845	Host Checker policy to detect Hard Disk encryption in progress is now added in this release.
PRS-385491	TLS handshake failed error messages observed after PPS upgrade is now fixed.
PRS-387624	When replica (IF-MAP) is not reachable, CombinedChangeLog files keep accumulating and consumes space on HDD partition till it reaches 95%. This issue is now fixed.
Profiler	
PRS-388101	Canon printer was misclassified on PPS Profiler. This issue is fixed in the latest fingerprint database.
PRS-387423	PPS Profiler was not detecting the next-gen Edge OS from IGEL devices. This issue is now fixed.
PRS-388953	Finger Print database was not loaded properly into the memory during initial loading of fingerprint file. This issue is now fixed.
PRS-387461	PPS Profiler full synchronization issue with Pulse One is now fixed.

PRS-387638	PPS Profiler Finger print database is now updated to detect ASUSTek COMPUTER INC" as Manufacturer.
PRS-388117	Full Sync start time used to be a default time, i.e., 01 Jan 1970 rather Current Time.
PRS-387717	The "View all 'Unapproved Devices'" link in E-mail received by admin for Device Approval was not getting redirect ed to Device Discovery Report. This issue is now fixed.
Release 9.1	
Profiler	
PRS-387461	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	TLS handshake failed error message observed due to state variable in RADIUS access request is fixed.
Release 9.1 R	4
PRS-382021	Dismiss until next upgrade option is not working for banner related to perpetual licensing.
Profiler	
PRS-380327	Devices in Network Infrastructure Device are in Undiscovered state after importing Devices
PRS-380855	Profiler is polling deleted switches once after deletion.
Release 9.1 R3.1	
PRS-382319	Port Bounce issue for SNMP VLAN enforcement with Cisco switch is now fixed.
PRS-382287	TNCS process fails randomly on the server while evaluating the Host Checker policies.
PRS-385089	Duplicate machine ID feature is reverted as part of this PR.
Profiler	
PRS-384666	PPS web interface is running extremely slow.
PRS- 384736 PRS-385372	trap-collector process restarting due to high memory usage. "trap-collector" consuming high CPU during startup.
110-303372	
Release 9.1 R	3
PRS- 376979	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 379003	End user always gets the remediation role even after endpoint meets all the End Point Security Policies.
PRS-377371	New device anomaly is not detected when connecting to Pulse via embedded browser
PRS-377957	PPS not sending auth table entry to correct vsys in PAN firewall
Profiler	
PRS-378960	In dashboard, Profiler name not retained when revisiting the same page after moving to another page.
Release 9.1 R	2
PRS- 376312	Factory reset from VMware VA console does not load the factory reset version and loads the current version.
PRS-376265	Invalid character error seen while adding Radius Return attribute value which contains "<" and ">" characters.
PRS-376465	Host Checker service in Pulse is crashing while performing policy monitoring when pulse client is retrying.
PRS-372699	NMAP scan profiling is inaccurate
PRS-372499	Session from Exported session list get purged on cluster if the passive node is disabled, rebooted and rejoined.
PRS-372440	Post Failover, Delayed session resumption with Pulse Client.
Release 9.1 R	1

Behavior of "re-authentication" and "termination" options in radius Return Attribute policy page is interchanged.

PRS-371733	Assigned VLAN is not updated if fetched on the next poll and always shows default configured. VLAN.
PRS-370902	Behavioral Analytics dashboard is not displaying charts for potential malware and anomalous traffic from IoT devices
	for more than 4 device categories intermittently.
PRS-370903	MAC address is not updated in the user session details.
PRS-374582	Behavior of "re-authentication" and "termination" options in radius Return Attribute policy page is interchanged.
PRS-374368	PSAL launch failed when proxy browser is configured.
PRS-374477	Fortinet admission control feature will not work with domain users (AD).
PRS-371536	Host Checker: Virus Definition Check for updates fails for K7 Virus Security ZERO (14.x),
PRS-373619	Host Checker: Virus Definition Check for updates fails for AVG Free Antivirus (19.2.x).

## Known Issues

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

Problem Report Number	Description
Release 9.1 R5	
PRS-389553	<ul> <li>Symptom: uacHostChecker process application exits unexpectedly</li> <li>Condition: Pulse Client with latest component tries to connect to lower server version, for example: 5.4R7.1 through Internet Explorer/Chrome/Firefox.</li> <li>Workaround: This issue is seen only on Windows 10 (1909) version whereas Windows RS5 (1809) and Windows7 Enterprise there is no issue.</li> </ul>
PRS-389409	<ul> <li>Symptoms: User sessions will not be synced for the session logged in at the time of second node upgrade in Active Passive cluster.</li> <li>Condition: During Active Passive cluster upgrade, when the first node comes up after upgrading newer version, it informs the other node to upgrade. During this time if any new user logs in then all those sessions will not be synced after second node upgrade.</li> <li>Workaround: Users needs to re-login</li> </ul>
PRS-389234	Symptom: ECC device certificate is not supported with SRX firewall below Junos version 15.x.         Condition: If the server uses ECC device certificate then the connection to SRX is established only with releases later than Junos 15.x version.         Workaround:         ECC certificate support is introduced in releases later than 15.x Junos version.         If the server uses ECC device certificate, then the connection to SRX is established only with releases later than Junos 15.x version.         If the server uses ECC device certificate, then the connection to SRX is established only with releases later than Junos 15.x version.
PRS-389642	If the server has both the ECC and RSA device certificate installed, then Restart Services (. (System Maintenance > Platform > Restart Services) is required to switch from ECC to RSA or vice versa. Symptom: XML import is failing if configuration file has syslog IPv6 settings. Condition: If IPv6 syslog server on log settings is configured then the XML import fails. Workaround: Export the binary system configuration and import on another device.
PRS-389078	<ul> <li>Symptom: When the end-user changes his password, login with the changed password fails.</li> <li>Condition: User won't be able to login with the changed password.</li> <li>Workaround: Admin can change the password for the end-user and that password can be used to login.</li> </ul>
PRS-389763	<ul> <li>Symptom: When SNMP Device is discovered using SNMP (v2/v3 version), Location Group and Default VLAN configured for the discovered device is not applied after clicking "Add Device".</li> <li>Condition: Discover a Switch using SNMP (v2/v3 version). Configure Location Group and Default VLAN, and then click on "Add Device". Added device will not have the Location Group and Default VLAN configuration.</li> <li>Workaround: Configuration has to be manually changed under Endpoint Policy &gt; Network Access &gt; Network Infrastructure Device.</li> </ul>
PRS-385553	Symptom: Connection error displayed while installing Host Check component. The issue is seen while performing agentless connection (Host Check enabled) after cleaning all the previously installed Host Check components. Conditions: "UAC Host Checker" process running in the background. Workaround: Kill the process or reboot the system and perform agentless connection.
PRS-389865	<ul> <li>Symptom: Session termination action from admission control policy is not triggered post AP cluster failover for existing user sessions.</li> <li>Condition: Users connected to Active Node in AP cluster will move to Passive Node on Cluster failover. If any Admission control event/alert is received for these users, action set in the Admission control policy will not be triggered.</li> <li>Workaround: As this issue is only for those sessions available before failover, new session should be created post failover to resolve the issue.</li> </ul>
PRS-390106	Symptom: Inconsistent upgrade issues seen while upgrading Hyper-V images in clustering and single node.

	Condition: Upgrading a Hyper-V image to 9.1R5.
	Workaround: If cluster upgrade fails, reboot the node which is not upgraded. If the issue persists, try upgrading the nodes individually and then form cluster.
PRS-390303	<b>Symptom</b> : The event Agent_session_bridge is not included in Login Type Dashboard chart formation in splunk App. <b>Condition</b> : It gets impacted only when a user forming L2 followed by L3 session from the PDC client. The reason is, this event is not been added in parsing regexp in backend , hence bridged session will not be appeared in Login_Type Dashboard chart in Pulse policy Secure App.
	Workaround: The event 'Agent_session_bridge' should be added in backend with applying regexp for the field to be extracted for further use.
	Symptom: The current splunk session displayed on Dashboard will not be retained when clicking on Pulse Policy
PRS-390300	Secure App. Condition: Splunk limitation Workaround: Not Available
Profiler	
PRS-389626	Symptom: Full sync happens more than once in Forwarder A/P Cluster. Condition: This issue is observed only after upgrading Forwarder A/P Cluster. Workaround: None
PRS-389305	Symptom: During "edit all similar devices" in DDR, the response message is displayed successful. However, devices are still getting classified in the background. Admin does not know when the re-classification is done for all the devices. Condition: This occurs when there is large number(~50K) of devices classified. Workaround: Refresh the DDR page after few minutes.
PRS- 389161	<ul> <li>Symptom: If endpoints entries are deleted from DC, these endpoints are not deleted from DR and vice versa.</li> <li>Condition: This issue is only seen when full sync is in progress. If endpoints entries are deleted after full sync done, sync happens properly.</li> <li>Workaround: Delete the endpoints from DC/DR separately.</li> </ul>
PRS-388961	Symptom: In the Switch View Bridge Interfaces are not showing up, all other interfaces are coming. Condition: Fetching the IFMIB doesn't gives the bridge interfaces. Workaround: None.
Release 9.1 R4	
PRS-386989	<b>Symptom</b> : 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 <b>Condition</b> : When SSID is disconnected from the endpoint by the Guest without logging out from the active session <b>Workaround</b> : Manually remove the active session from Mist controller Or Provide lower session timeout value for Guest users in PPS.
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	<ul> <li>Symptom: The "View all 'Unapproved Devices'" link in E-mail received by admin for Device Approval does not redirect to Device Discovery Report.</li> <li>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 )</li> <li>Workaround: Instead of using link from Email, admin can login to PPS and filter for "Unapproved Devices" in Device Discovery Report.</li> </ul>
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	<ul> <li>Symptom: TNCS on the server crashes intermittently during the HC policy evaluations.</li> <li>Condition: With Opswat policies configured on the server, TNCS on the server crashes intermittently during the Opswat policies evaluation.</li> <li>Workaround: If Opswat policy evaluation fails for a specific end user, he/she may need to re-authenticate for getting the required access.</li> </ul>
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	<ul> <li>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 &lt;%HOME%&gt;</li> <li>Condition: Hostcheck policy with File Rule for macOS 10.14.x or higher versions for a file located at System Directories &lt;%HOME%&gt;</li> <li>Workaround: Need to add permissions for "Pulse Client" under "Accessibility" and "Full Disk Access" and which can be accessed from System Preferences &gt; Security &amp; Privacy</li> <li>Or without providing permission /tmp location can be used for File validation.</li> </ul>			
PRS-380471	<b>Symptom</b> : PPS upgrade to 9.1R3 will not update the connection set and component set of the user role config with Odyssey Access client settings.			
Release 9.1 F	2			
PRS-378002	Symptom: Cache server is continuously crashing in Longevity setup. Unable to open admin UI, crash messages 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	<b>Symptom:</b> SMTP Port 465 is not working for PPS guest user. <b>Condition:</b> Under SMTP settings, port 465 should also supported for Guest user. <b>Workaround:</b> SMTP port 587 with selecting SSL works in case of guest.			
PRS-379012	<ul> <li>Symptom: Radius Disconnect message (DM) is not working after importing user.cfg configuration from the previous release.</li> <li>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.</li> <li>Workaround: After restoring the dictionary to factory default, DM is sent to the switch and session is disconnected.</li> </ul>			
PRS-379063	<ul> <li>Symptom: While performing L3 followed by L2 and frequently enable/disable migration option some time SDKs are replacing next periodic host check</li> <li>Condition: On Windows Platform using Pulse performing L2 authentication with Host Check enabled on Role/Realm with Migration feature enabled.</li> <li>Workaround: For replacing expected SDKs wait for next periodic Handshake or Disconnect and again connect to server using Pulse.</li> </ul>			
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				
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	<ul> <li>Symptom: Linkdown Trap is not updating device link status in Device Discovery Report when profiler processes for the first time.</li> <li>Condition: Profiler not processing Linkdown Trap without Linkup trap update in Device Discovery page for the device.</li> <li>Workaround: NA</li> </ul>			
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 F	41			
PRS-372687	<ul> <li>Symptom: RADIUS CoA disconnect for Splash sign on page in Meraki WLC does not acknowledge the session disconnect message sent by PPS.</li> <li>Condition: 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.</li> <li>Workaround: Admin can login to Meraki dashboard and de-authorize the guest manually from Wireless &gt; Splash logins page. In addition to that, we have raised an enhancement request to Meraki to support COA disconnect on</li> </ul>			
PRS-372794	<ul> <li>splash sign on page with radius authentication.</li> <li>Symptom: RADIUS Accounting stop message is not sent by Meraki when guest logs out or gets disconnected from Guest SSID</li> <li>Conditions: The Guest session will remain active on PPS for the duration of Maximum Session Length (default=725 mins).</li> <li>Workaround: Admin can login to Meraki dashboard and de-authorize the guest manually from Wireless &gt;Splash logins page which will immediately send the Accounting stop messages are not sent by BIG IP E5 device</li> </ul>			
110-070001	JYTTIDIOTTI, TACACO I ALCOUTIUTE STALL ATA STOL THESSARES ALE TOUSETTUV DIG TE ES DEVICE			

	<ul> <li>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.</li> <li>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.</li> </ul>			
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	<ul> <li>Symptom: Factory reset from VMware VA console does not load the factory reset version and loads the current version.</li> <li>Condition: When trying to do factory reset to 9.1R1 from higher version in VMware-VA</li> <li>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:</li> <li>-Current version</li> <li>-Rollback version</li> <li>-Factory reset version</li> <li>Admin need to manually select the Factory reset version for the factory reset to happen successfully on VMware VA.</li> </ul>			
PRS-372250	Symptom: Session migration fails for 802.1X authentication. Condition: When the user tries to migrate the 802.1X sessions from PPS to PCS. Workaround: NA			
PRS-374476	Workaround: NA         Symptom: Firewall SOH policy evaluation fails for domain user when Private and Public Networks profiles in Windows         Firewall are not turned ON.         Condition: When Private and Public network profile for domain user is not turned ON for Windows firewall.         Workaround: NA			
PRS-374820	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. Condition: If network infrastructure devices config imported using binary/xml Workaround: NA. This might happen once.			
PRS-374663	<ul> <li>Symptom: L3 session is established with Internal IP while performing L3 followed by L2 using Pulse with PPS External VIP address.</li> <li>Conditions: When PPS nodes are in cluster and external port is used for RADIUS authentication.</li> <li>Workaround: NA</li> </ul>			
PRS-360616	<ul> <li>Symptom: SAML authentication failed with error "Missing/Invalid sign-in URL" despite correct credentials while using PDC embedded browser version 9.0.1.</li> <li>Condition: Using PDC browser version 9.0.1 with PPS version 9.1R1.</li> <li>Workaround: Use latest PDC version with Release 9.1R1.</li> </ul>			
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	<ul> <li>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 REST API key for PPS-Juniper PE communication.</li> <li>Conditions: Configuring PPS as Connector in Juniper PE.</li> <li>Workaround: Juniper SDSN integration with PPS requires creating a local Admin user on PPS.</li> </ul>			
PRS-367291	<ul> <li>Symptom: Certificate Authentication fails due to configuration of "Skip Revocation when OCSP/CDP server is not available" for HC policy enforced at realm level.</li> <li>Condition: When admin enables Skip Revocation check and OSCP server is not reachable.</li> <li>Workaround: Set the OSCP timeout to less than 5 seconds.</li> </ul>			
PRS-368055	<ul> <li>Symptom: Admin is allowed to create anomaly role mapping rules based on custom expressions when UEBA license is not installed.</li> <li>Condition: Configuring anomaly role mapping rules based on custom expressions when Behavioral Analytics license is not installed</li> <li>Workaround: Install Behavioral Analytics License.</li> </ul>			
PRS-366296 PRS-369738	Symptom: Authentication to PPS fails as Duo custom sign-in pages are not displayed. Condition: User authenticates to PPS and assigned realm is configured with Duo as secondary authentication server Workaround: Use passcode-based Duo authentication.			
PRS-367024	<ul> <li>Symptom: Authentication fails for browser-based login for Duo and LDAP combination with predefined user as <user> in secondary authentication server.</user></li> <li>Condition: User authenticates to PPS and assigned realm is configured with Duo as primary and LDAP as secondary auth server</li> <li>Workaround: Use passcode-based Duo authentication.</li> </ul>			

<ul> <li>PR5-368136 Symptom: VIP failover fails in A/P duster when the Active node becomes unreachable with SPAN configured external port.</li> <li>Condition: Active node becomes unreachable in A/P Cluster with Local SPAN enabled on cluster nodes' exter Workaround. Configure Remote SPAN.</li> <li>PR5-368689 Symptom: OS Check rule is not supported when trying to connect from 9.0R3 Pulse client to old PPS (9.0R2 server on NAC OS platform.</li> <li>Condition: When OS check Host checker rule is evaluated with new Pulse client to not CS Check host checker pol as expected.</li> <li>PR5-368967 Symptom: Host checker fails on Mac OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in EAPP enabled.</li> <li>Condition: When FSAP with V3 SDK is activated on the server.</li> <li>Workaround: Administrator should addivate ESAP with V4 SDK on PPS for Host check to work as expected.</li> <li>PR5-376265 Symptom: Invalid character error seen while adding Radius Return attribute value which contains ** and &gt;&gt; characters.</li> <li>Workaround: administrator should addivate ESAP with V4 SDK on PPS for Host check to work as expected.</li> <li>PR5-376265 Symptom: Invalid character error seen while adding Radius Return attribute value contains ** and &gt;&gt; characters.</li> <li>Workaround: administrator should addivate ESAP with V4 SDK on PPS for Host check to work as expected.</li> <li>PV Forsh Deployment: To add Radius Return attributes are not modified. To edit or create new Radi attribute value creating new Radius Return attribute value contains ** and &gt;&gt; characters.</li> <li>Workaround: Administrator should addivate EMP on Profiler. Antivitrus Rule which contains ** and &gt;&gt; characters.</li> <li>Presh Deployment. To add Radius Return attribute value which contains ** and &gt;&gt; characters.</li> <li>Workaround: Hyport Expert Should addivate EMP on Profiler. Antivitrus Rule with You definition was installed.</li> <li>Workaround: Gravito as the Should work fine, if Radius Retur</li></ul>	
Workaround: Configure Remote SPAN.           PRS-368689         Symptom: OS Check rule is not supported when trying to connect from 9.0R3 Pulse client to old PPS (9.0R2) server on MAC OS platform.           Condition: When OS check Host checker rule is evaluated with new Pulse client connecting to pre-9.0R3 PP! Workaround: Pulse client on MAC platform and PPS server need to be 9.0R3 for OS Check host checker pol as expected.           PRS-368967         Symptom: Host checker fails on MAC OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in FSAP enabled.           PRS-376265         Symptom: Invalid character error seen while adding Radius Return attribute value which contains ** and *> characters.           Workaround:         Unggrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value please follow step 2.           2) Fresh Deployment: To add Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.           2) Fresh Deployment: For Agentiess Host Checker with Profiler, Antrivins Melwith Kins definition age* check may fail.           Condition: While creating new Radius Return attributes value which contains ** and *> characters.           Workaround:         10 Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value yleases Host Checker with Profiler, Antrivins Melwith */ins definition age* check may fail.           Profiler         PRS-366079           Symptom: For Agentiess Host Checker with Profiler, Antrivins Melwith */ins definition age* check may fail.	
server on MAC OS platform.         Condition: When OS check kiest checker rule is evaluated with new Pulse client connecting to pre-9.083 PP           Workaround: Pulse client on MAC platform and PPS server need to be 9.083 for OS Check host checker pol as expected.         Symptom: Hoist checker fails on Mac OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in ESAP 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 ">	rnal port.
Condition: When OS check Host checker rule is evaluated with new Pulse client connecting to pre-9.083 PP3           Workaround: Pulse client on MAC platform and PPS server need to be 9.083 for OS Check host checker pol as expected.           PRS-368967         Symptom: Host checker fails on Mac OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in ESAP 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.           Workaround:         1) Ubgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.         2) Fresh Deployment: To add Radius Return attribute value which contains "<" and ">" characters, export XM.           Profiler         Profiler         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 age" check may fail. Condition: Windows registry does not maintain the timestamp, when last virus definition was installed. Tim as midnight time (00:00:00) of the date, when the last definition mage + 1) days.           PRS-36687         Symptom: Remote profiler is unable to communicate with Profiler Authentication server.           PRS-36697         Symptom: Remote profiler is unable to communicate with Profiler Authenti	.9.0R1)
Workaround: Pulse client on MAC platform and PPS server need to be 9.0R3 for OS Check host checker pol as expected.           PRS-368967         Symptom: Host checker fails on Mac OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in ESAP 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: When ESAP with V3 SDK is activated on the server.         Workaround: 10 Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.           2) Fresh Deployment: To add Radius Return attribute value which contains "<" and ">" characters, export XM. Maintenance >ImportNExport >Export XML and addwnodify the Radius Return Attribute value in Exported XI then import the same XML from Maintenance >ImportKExport.>Import XML.           Profiler         Symptom: For Agentiese 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. Tim as midnight time (00.0000) of the date, when the last definition was installed.           PRS-367687         Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through Bi configuration.           Condition: Importing profiler data using Binary configuration.         Workaround: IVA           Workaround: IVA <td< td=""><td>-</td></td<>	-
PRS-368967       Symptom: Host checker fails on Mac OS 10.14 Mojave endpoint when Activate Older OPSWAT SDK in ESAP 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 contains "<" and "> characters.         Workaround:       1) Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.         2) Fresh Deployment: To add Radius Return attribute value which contains "<" and "> characters, export XM Maintenance >ImportXeport >>kport XML and addwnodify the Radius Return Attribute value in Exported XI then import the same XML from Maintenance >ImportVexport->Import XML.         Profiler       Profiler         PRS-366070       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 virue selfnition was installed.         Workaround: Create the rule with (expected number of definition age + 1) days.         PRS-361240       Symptom: Remote profiler is unable to communicate with Profiler, hence the remote endpoints are not profile configuration.         Condition: Using a CA signed certificate is used on Profiler Authentication server. <td></td>	
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 ">	S
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 ">	
<ul> <li>PRS-376265</li> <li>Symptom: Invalid character error seen while adding Radius Return attribute value which contains "&lt;" and "&gt; characters.         <ul> <li>Condition: While creating new Radius Return attribute value or editing existing Radius Return attribute value contains "&lt;" and "&gt;" characters.</li> <li>Workaround:</li></ul></li></ul>	
<ul> <li>characters.</li> <li>Condition: While creating new Radius Return attribute value or editing existing Radius Return attribute value contains "&lt;" and "&gt;" characters.</li> <li>Workaround:</li> <li>1) Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.</li> <li>2) Fresh Deployment: To add Radius Return attribute value which contains "&lt;" and "&gt;" characters, export XM. Maintenance &gt;import/Export -&gt;Export XML and add/modify the Radius Return Attribute value in Exported XI then import the same XML.</li> <li>Profiler</li> <li>Profiler</li> <li>Profiler</li> <li>Profiler.</li> <li>Prover For Agentless Host Checker with Profiler, Antivirus Rule with "virus definition age" check may fail.</li> <li>Condition: Windows registry does not maintain the timestamg, when last virus definition was installed. Tim as midnight time (00:00:00) of the date, when the last definition was installed.</li> <li>Workaround: Create the rule with (expected number of definition age + 1) days.</li> <li>PRS-367687</li> <li>Symptom: Remote profiler is unable to communicate with Profiler, hence the remote endpoints are not pro Condition: If self-signed certificate is used on Profiler server.</li> <li>Workaround: Using a CA signed certificate on Profiler server.</li> <li>Workaround: Reconnect the existing user session.</li> <li>Cloud Application.</li> <li>Condition: Ignorprifiler data using Binary configuration.</li> <li>Workaround: N/A</li> <li>PRS-370248</li> <li>Symptom: CAV falls to configure das Infranet Enforcer.</li> <li>Workaround: N/A</li> <li>PRS-370249</li> <li>Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: Iday profiler yupdates are not sent to PPS if CAV Database is updated with PCS IP address. Condition: If All eadabase at client side is updated with PCS IP address.</li></ul>	
contains "<" and ">" characters.         Workaround:       1) Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.         2) Fresh Deployment: To add Radius Return attribute value which contains "<" and ">" characters, export XM. Maintenance >importNExport >Export XML and adMmodify the Radius Return Attribute value in Exported XI then import the same XML from Maintenance >ImportNExport->Import XML.         Profiler       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. Tim 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 pro Condition: If self-signed certificate is used on Profiler server.         Vorkaround: Using a CA signed certificate on Profiler server.       Workaround: Using a CA signed certificate on Profiler server.         Version: Endpoint session status is not updated in DDR table if the same endpoint is imported through Bi configuration.       Condition: Importing profiler data using Binary configuration.         Workaround: N/A       Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer resource.         Condition: Juniper SRX is configure	
1) Upgrade case: It would work fine, if Radius Return attributes are not modified. To edit or create new Radi attribute value, please follow step 2.         2) Fresh Deployment: To add Radius Return attribute value which contains "<" and ">" characters, export XM. Maintenance >Import\Export >Export XML and add\modify the Radius Return Attribute value in Exported XI then import the same XML from Maintenance >Import\Export->Import\Export.>Import\Export.>Import\Export         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. Tim as midnight time (00:00:00) of the date, when the last definition was installed. Tim as midnight time (00:00:00) of the date, when the last definition was installed.         PRS-367687       Symptom: Remote profiler is unable to communicate with Profiler; hence the remote endpoints are not pro Condition: if self-signed certificate is used on Profiler Authentication server.         Workaround: Create the rule with (expected number of definition age + 1) days.         PRS-361246       Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through Bi configuration.         Visibility       Condition: Junper SRX is configured proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer resource.         Condition: Juniper SRX is configured as Infranet Enforcer.       Workaround: N/A         PRS-370249       Symptom: CAV fails to configured as Infranet Enforcer.         Workaround: N/A       Condition: Authenticator is a	which
attribute value, please follow step 2.       2) Fresh Deployment: To add Radius Return attribute value which contains "<" and ">" characters, export XM.         Maintenance >Import/Export >Export XML and add\modify the Radius Return Attribute value in Exported XI then import the same XML from Maintenance >Import/Export->Import XML.         Profiler	
<ul> <li>2) Fresh Deployment: To add Radius Return attribute value which contains "&lt;" and "&gt;" characters, export XM. Maintenance &gt;Import'Export &gt;KML and add\modify the Radius Return Attribute value in Exported XI then import the same XML from Maintenance &gt;Import\Export.&gt;Import XML.</li> <li>Profiler</li> <li>PRS-369079</li> <li>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. Tim as midnight time (00:00:00) of the date, when the last definition was installed. Symptom: Remote profiler is unable to communicate with Profiler, hence the remote endpoints are not pro Condition: If self-signed certificate is used on Profiler Authentication server.</li> <li>Workaround: Using a CA signed certificate on Profiler Authentication server.</li> <li>Workaround: Bergon and a status is not updated in DDR table if the same endpoint is imported through Bi configuration.</li> <li>Condition: Importing profiler data using Binary configuration.</li> <li>Workaround: Reconnect the existing user session.</li> <li>Cloud Application</li> <li>Visibility</li> <li>PRS-370268</li> <li>Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer resource.</li> <li>Condition: Juniper SRX is configured as Infranet Enforcer.</li> <li>Workaround: N/A</li> <li>PRS-370237</li> <li>Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: If CAV patabase at client side is updated with PCS IP address.</li> <li>Condition: If CAV database at client side is updated with PCS IP address.</li> <li>Condition: If CAV policy updates are not sent to PPS if CAV Database is updated with PCS IP address.</li> <li>Condition: INA</li> <li>PRS-370123</li> <li>Symptom: CAV policy appates are not sent to PPS if CAV Database is</li></ul>	us Return
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. Tim as midnight time (00:00:00) of the date, when the last definition age + 1) days. PRS-367687 Symptom: Remote profiler is unable to communicate with Profiler, hence the remote endpoints are not pro Condition: 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 Bi configuration. Condition: 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 resource. Condition: Juniper SRX is configured as Infranet Enforcer. Workaround: N/A PRS-370237 Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: if 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 con Workaround: N/A PRS-370123 Symptom: CAV feature does not work when Pulse SAM is enabled on client. Condition: Fulse SAM and CAV enabled for the same role.	1L file from
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. Tim 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 pro Condition: If self-signed certificate is used on Profiler server.           PRS-361246         Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through Bi configuration. Condition: Importing profiler data using Binary configuration. Workaround: Reconnect the existing user session.           Cloud Application Visibility         Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server. Workaround: N/A           PRS-370237         Symptom: DNS resolution fails after CAV is re-enabled at user role level. Conditions: I faiready 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. Condition: Pulse SAM and CAV enabled for the same role.	/L and
Conditions: Windows registry does not maintain the timestamp, when last virus definition was installed. Tim 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 pro Condition: 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 Bi configuration.         Condition: 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 resource.         Condition: Juniper SRX is configured as Infranet Enforcer.         Workaround: N/A         PRS-370237       Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: If CAV database 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 contworkaround: N/A         PRS-370123       Symptom: CAV feature does not work when Pulse SAM is enabled on client.	
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 profiler source with generating and 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 Bi configuration.         Cloud Application       Workaround: Reconnect the existing user session.         Cloud Application       Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server.         Workaround: N/A       Symptom: CAV database at client side is updated with PCS IP address.         Condition: If CAV database at client side is updated with PCS IP address.       Condition: If already added user role is deleted from the CAV policies.         Workaround: N/A       PRS-370123       Symptom: DNS resolution fails after CAV is re-enabled at user role level.         Condition: If Act atabase at client side is updated from the CAV policies.<	
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 profiler fauthentication server.         Workaround: Using a CA signed certificate on Profiler 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 Biconfiguration.         Condition: 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 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server.         Workaround: N/A       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 already added user role is deleted from the CAV policies.       Workaround: N/A         PRS-370123       Symptom: CAV feature does not work when Pulse SAM is enabled on client.         Condition: If already added user role is del	e is taken
PRS-367687       Symptom: Remote profiler is unable to communicate with Profiler; hence the remote endpoints are not profound to the server.         PRS-361246       Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through Biconfiguration.         Condition: 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 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server.         Workaround: N/A       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.       Condition: If already added user role is deleted from the CAV policies.         Workaround: N/A       PRS-370123       Symptom: CAV feature does not work when Pulse SAM is enabled on client.         Condition: Pulse SAM and CAV enabled for the same role.       SAM and CAV enabled for the same role.	
Condition: If self-signed certificate is used on Profiler Authentication server. Workaround: Using a CA signed certificate on Profiler server.PRS-361246Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through Bic configuration. Workaround: Reconnect the existing user session.Cloud Application VisibilityWorkaround: Reconnect the existing user session.PRS-370268Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer resource. Condition: Juniper SRX is configured as Infranet Enforcer. Workaround: N/APRS-370249Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server. Workaround: N/APRS-370237Symptom: 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 cont Workaround: N/APRS-370123Symptom: 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/APRS-369277Symptom: CAV feature does not work when Pulse SAM is enabled on client. Condition: Pulse SAM and CAV enabled for the same role.	filed
PRS-361246       Symptom: Endpoint session status is not updated in DDR table if the same endpoint is imported through Biconfiguration.         Condition: 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 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server.         Workaround: N/A       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 contivors.         Workaround: N/A         PRS-370123       Symptom: DNS resolution fails after CAV is re-enabled at user role level.         Condition: 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.         Condition: Pulse SAM and CAV enabled for the same role.       Condition:	incu.
configuration.       Condition: Importing profiler data using Binary configuration.         Workaround: Reconnect the existing user session.       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 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server.         Workaround: N/A       Vision: 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.       Condition: If CAV database at client side is updated with PCS IP address.         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       Vrox Around: - N/A       Symptom: CAV feature does not work when Pulse SAM is enabled on client.         Condition: Pulse SAM and CAV enabled for the same role.       Sumptom: CAV enabled for the same role.	
Condition: Importing profiler data using Binary configuration. Workaround: Reconnect the existing user session.Cloud Application VisibilityPRS-370268Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer resource. Condition: Juniper SRX is configured as Infranet Enforcer. Workaround: N/APRS-370249Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server. Workaround: N/APRS-370237Symptom: 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. Condition: If CAV database at client side is updated with PCS IP address. Condition: If already added user role is deleted from the CAV policies. Work Around: - N/APRS-369277Symptom: CAV feature does not work when Pulse SAM is enabled on client. Condition: Pulse SAM and CAV enabled for the same role.	lal y
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 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 po 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. Condition: If CAV database at client side is updated with PCS IP address. Condition: If CAV database at client side is updated with PCS IP address. 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. Condition: Pulse SAM and CAV enabled for the same role.	
Visibility         PRS-370268       Symptom: CAV fails to configure proxy on endpoint, when Juniper SRX is configured as an Infranet Enforcer 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 po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server.         Workaround: N/A       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 cont 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.         Condition: Pulse SAM and CAV enabled for the same role.	
<ul> <li>resource.</li> <li>Condition: Juniper SRX is configured as Infranet Enforcer. Workaround: N/A</li> <li>PRS-370249</li> <li>Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po Condition: Authenticator is a third-party device and is configured to use PPS as authenticating server. Workaround: N/A</li> <li>PRS-370237</li> <li>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 cont Workaround: N/A</li> <li>PRS-370123</li> <li>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</li> <li>PRS-369277</li> <li>Symptom: CAV feature does not work when Pulse SAM is enabled on client. Condition: Pulse SAM and CAV enabled for the same role.</li> </ul>	
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 po 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 context 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.         Condition: Pulse SAM and CAV enabled for the same role.	for a
Workaround: N/A         PRS-370249       Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access por 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 contworkaround: 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. Condition: Pulse SAM and CAV enabled for the same role.	
PRS-370249       Symptom: CAV policies are not applied when endpoints establish dot1x connection with a switch/access po         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 context         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.         Condition: Pulse SAM and CAV enabled for the same role.	
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 cont 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. Condition: Pulse SAM and CAV enabled for the same role.	nt.
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 cont 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. Condition: Pulse SAM and CAV enabled for the same role.	
Condition: If CAV database at client side is updated with PCS IP address and the user establishes L2/L3 cont         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.         Condition: Pulse SAM and CAV enabled for the same role.	
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. Condition: Pulse SAM and CAV enabled for the same role.	
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.         Condition: Pulse SAM and CAV enabled for the same role.	lection.
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.         Condition: Pulse SAM and CAV enabled for the same role.	
Work Around: - N/A         PRS-369277       Symptom: CAV feature does not work when Pulse SAM is enabled on client.         Condition: Pulse SAM and CAV enabled for the same role.	
Condition: Pulse SAM and CAV enabled for the same role.	
Work Around: - N/A	
	undata
PRS-369891 Symptom: Authentication token fetching is failing under NATed environment on Pulse client for CAV policies Conditions: PCS configured behind a NAT device.	update.
Work Around: N/A	
PRS-369279 Symptom: Lockdown is not working properly if CAV policies are configured.	
Condition: 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
9.1Rx	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