

# One Identity Safeguard for Privileged Sessions 6.1

## Release Notes

### August 2019

These release notes provide information about the One Identity Safeguard for Privileged Sessions 6.1 release.

## About this release

One Identity Safeguard for Privileged Sessions Version 6.1 is a release with new features and resolved issues. For details, see:

- [Resolved issues](#)

**NOTE:**

For a full list of key features in One Identity Safeguard for Privileged Sessions, see [Administration Guide](#).

## About the Safeguard product line

The One Identity Safeguard Appliance is built specifically for use only with the Safeguard privileged management software, which is pre-installed and ready for immediate use. The appliance is hardened to ensure the system is secured at the hardware, operating system and software levels. The hardened appliance approach protects the privileged management software from attacks while simplifying deployment and ongoing management -- and shortening the timeframe to value.

## Safeguard privileged management software suite

Safeguard privileged management software is used to control, monitor, and govern privileged user accounts and activities to identify possible malicious activities, detect entitlement risks, and provide tamper proof evidence. The Safeguard products also aid incident investigation, forensics work, and compliance efforts.

The Safeguard products' unique strengths are:

- One-stop solution for all privileged access management needs
- Easy to deploy and integrate
- Unparalleled depth of recording
- Comprehensive risk analysis of entitlements and activities
- Thorough Governance for privileged account

The suite includes the following modules:

- **One Identity Safeguard for Privileged Passwords** automates, controls and secures the process of granting privileged credentials with role-based access management and automated workflows. Deployed on a hardened appliance, Safeguard for Privileged Passwords eliminates concerns about secured access to the solution itself, which helps to speed integration with your systems and IT strategies. Plus, its user-centered design means a small learning curve and the ability to manage passwords from anywhere and using nearly any device. The result is a solution that secures your enterprise and enables your privileged users with a new level of freedom and functionality.
- **One Identity Safeguard for Privileged Sessions** is part of One Identity's Privileged Access Management portfolio. Addressing large enterprise needs, Safeguard for Privileged Sessions is a privileged session management solution, which provides industry-leading access control, as well as session monitoring and recording to prevent privileged account misuse, facilitate compliance, and accelerate forensics investigations.

Safeguard for Privileged Sessions is a quickly deployable enterprise appliance, completely independent from clients and servers - integrating seamlessly into existing networks. It captures the activity data necessary for user profiling and enables full user session drill-down for forensics investigations.

- **One Identity Safeguard for Privileged Analytics** integrates data from Safeguard for Privileged Sessions to use as the basis of privileged user behavior analysis. Safeguard for Privileged Analytics uses machine learning algorithms to scrutinize behavioral characteristics and generates user behavior profiles for each individual privileged user. Safeguard for Privileged Analytics compares actual user activity to user profiles in real time and profiles are continually adjusted using machine learning. Safeguard for Privileged Analytics detects anomalies and ranks them based on risk so you can prioritize and take appropriate action - and ultimately prevent data breaches.

# New features

New features in SPS 6.1:

## Search improvements

To help new users, the Basic Search now displays values from the selected time range for default fields, including **user.name**, **server.name**, **protocol**, **verdict**, and an extra input field for free-text filtering.

Advanced search now highlights the syntax of the search query.

You can now display the various parameters of the sessions in the timeline for quick trend analysis.

If available, the hostname of the client and the target is available in the **Client name** and **Server hostname** fields.

## VNC over HTTP WebSocket support

One Identity Safeguard for Privileged Sessions now supports auditing [WebSocket](#) traffic. Any WebSocket traffic can be controlled and audited, but currently the Safeguard Desktop Player application can replay only VNC over WebSocket traffic. You can export other types of audited WebSocket traffic into PCAP format for external analysis.

## Plugins

Plugins that use the Plugin SDK for Safeguard for Privileged Sessions (SPS) can use the new HTTP proxy settings (**Basic Settings > Network > HTTPS proxy**).

Plugins deprecated in version 6.0 have been removed from the documentation set. For details on updating your plugins, see [Upgrading plugins for One Identity Safeguard for Privileged Sessions version 6.0](#). If you want to write a new plugin for One Identity Safeguard for Privileged Sessions, use the new Plugin SDK for Safeguard for Privileged Sessions (SPS). For details, see the [Plugin SDK for Safeguard for Privileged Sessions \(SPS\) documentation](#).

## Desktop Player

The Safeguard Desktop Player application can replay VNC over WebSocket traffic.

## REST API

- Missing keys raise a warning instead of validation error.
- Extra keys passed as part of the JSON do not trigger an error.
- When a list of objects is queried, the API will return the entire body of the elements in addition to their individual links. That way you do not have to look for a policy by a specific name or other property. Note that this behavior applies only to the

immediate parent nodes of resource objects. For example, querying `/api/configuration/aaa/local_database/users`` will return the details of the elements, but querying `/api/configuration/aaa/local_database`` will have the same response as before (two links to the `groups`` and `users`` endpoints).

## Enhancements

The following is a list of enhancements implemented in SPS 6.1.

**Table 1: General enhancements**

Enhancement	Issue ID
It is now possible to join Starling when SPS is behind an HTTP proxy using the proxy settings at <b>Basic Settings &gt; Network &gt; HTTPS proxy</b> .	
Channel policies can now store hostnames and fully-qualified domain names in the <b>From</b> and <b>Target</b> fields. Earlier versions automatically resolved these hostnames into IP addresses and stored the IP address in the configuration. Now these hostnames are resolved for each session, so hostnames with dynamically changing IP addresses can be used. Wildcards are also supported (for example, <code>*.example.com</code> ). For details, see <a href="#">"Creating and editing channel policies" in the Administration Guide</a> .	

## Resolved issues

The following is a list of issues addressed in this release.

**Table 2: General resolved issues in release 6.1**

Resolved Issue	Issue ID
Security updates in this release:	PAM-10262
bind9:	
<ul style="list-style-type: none"><li>CVE-2018-5743</li></ul>	
curl:	
<ul style="list-style-type: none"><li>CVE-2019-5346</li></ul>	
db5.3:	

## Resolved Issue

## Issue ID

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- CVE-2019-8457

dbus:

- CVE-2019-12749

elfutils:

- CVE-2018-16062
- CVE-2018-16402
- CVE-2018-16403
- CVE-2018-18310
- CVE-2018-18520
- CVE-2018-18521
- CVE-2019-7149
- CVE-2019-7150
- CVE-2019-7665

ffmpeg:

- CVE-2018-15822
- CVE-2019-9718
- CVE-2019-9721

glib2.0:

- CVE-2019-12450

gnutls28:

- CVE-2018-1084
- CVE-2018-10844
- CVE-2018-10845
- CVE-2018-10846
- CVE-2019-3829

isc-dhcp:

- CVE-2019-6470

jinja2:

- CVE-2019-10906

libpng1.6:

## Resolved Issue

## Issue ID

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- CVE-2019-7317

### libseccomp:

- CVE-2019-9893

### linux:

- CVE-2017-5715
- CVE-2017-5753
- CVE-2017-5754
- CVE-2018-12126
- CVE-2018-12127
- CVE-2018-12130
- CVE-2018-16884
- CVE-2018-3620
- CVE-2018-3639
- CVE-2018-3646
- CVE-2019-3874
- CVE-2019-3882
- CVE-2019-9500
- CVE-2019-9503

### mysql-5.7:

- CVE-2019-2566
- CVE-2019-2581
- CVE-2019-2592
- CVE-2019-2614
- CVE-2019-2627
- CVE-2019-2628
- CVE-2019-2632
- CVE-2019-2683

### openjdk-8:

- CVE-2019-2422
- CVE-2019-2426
- CVE-2019-2602

**Resolved Issue****Issue ID**

- 
- CVE-2019-2684
  - CVE-2019-2698

## php7.2:

- CVE-2019-11034
- CVE-2019-11035
- CVE-2019-11036
- CVE-2019-11039
- CVE-2019-11040
- CVE-2019-9637
- CVE-2019-9638
- CVE-2019-9639
- CVE-2019-9640
- CVE-2019-9641
- CVE-2019-9675

## postgresql-10:

- CVE-2019-10130

## python-urllib3:

- CVE-2018-20060
- CVE-2019-11236
- CVE-2019-11324

## qtbse-opensource-src:

- CVE-2018-15518
- CVE-2018-19870
- CVE-2018-19873

## samba:

- CVE-2018-16860

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Changing cluster roles may make the product tainted

PAM-9375

When changing certain cluster roles, the firmware became tainted. This affected the upgrade process when the definition of a role changed between two releases, resulting in tainted firmware.

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Report generation can produce duplicate reports

PAM-

If generating a report took more than 30 minutes, it was restarted, causing it to run twice and generate a duplicate report. This has been corrected, now report generation jobs cannot overlap to prevent processing them twice.

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## System requirements

Before installing SPS 6.1, ensure that your system meets the following minimum hardware and software requirements.

The One Identity Safeguard for Privileged Sessions Appliance is built specifically for use only with the One Identity Safeguard for Privileged Sessions software that is already installed and ready for immediate use. It comes hardened to ensure the system is secure at the hardware, operating system, and software levels.

For the requirements about installing One Identity Safeguard for Privileged Sessions as a virtual appliance, see one of the following documents:

- [Installation Guide](#)
- [Deployment from Azure Marketplace](#)
- [Deployment on Amazon Web Services](#)

## Supported web browsers and operating systems

### ⚠ CAUTION:

Since the official [support of Internet Explorer 9 and 10 ended](#) in January, 2016, they are not supported in One Identity Safeguard for Privileged Sessions (SPS) version 4 F3 and later.

### ⚠ CAUTION:

Even though the One Identity Safeguard for Privileged Sessions (SPS) web interface supports Internet Explorer and Microsoft Edge in general, to replay audit trails you need to use Internet Explorer 11, and install the [Google WebM Video for Microsoft Internet Explorer plugin](#). If you cannot install Internet Explorer 11 or another supported browser on your computer, use the the Safeguard Desktop Player application. For details, see "[Replaying audit trails in your browser](#)" in the [Administration Guide](#) and [Safeguard Desktop Player User Guide](#).

### ℹ NOTE:

SPS displays a warning message if your browser is not supported or JavaScript is disabled.



**NOTE:**

The minimum recommended screen resolution for viewing One Identity Safeguard for Privileged Sessions's (SPS's) web interface is 1366 x 768 pixels on a 14-inch widescreen (standard 16:9 ratio) laptop screen. Screen sizes and screen resolutions that are equal to or are above these values will guarantee an optimal display of the web interface.

## Supported browsers

The current version of Mozilla Firefox and Google Chrome, Microsoft Edge, and Microsoft Internet Explorer 11 or newer. The browser must support TLS-encrypted HTTPS connections, JavaScript, and cookies. Make sure that both JavaScript and cookies are enabled.

## Supported operating systems

Windows 2008 Server, Windows 7, Windows 2012 Server, Windows 2012 R2 Server, Windows 8, Windows 8.1, Windows 10, Windows 2016, and Linux.

The SPS web interface can be accessed only using TLS-encryption and strong cipher algorithms.

Opening the web interface in multiple browser windows or tabs is not supported.

# Safeguard Desktop Player system requirements

The Safeguard Desktop Player application supports the following platforms:

- **Microsoft Windows:**

64-bit version of Windows 7 or newer. Install the appropriate driver for your graphic card.

- **Linux:**

RHEL 6, CentOS 6, or newer. The Safeguard Desktop Player application will probably run on other distributions as well that have at least libc6 version 2.12 installed.

- **Mac:**

macOS High Sierra 10.13, or newer.

Installing the Safeguard Desktop Player application requires about 120MB disk space, and a temporarily used disk space to store the audit trails that are replayed. The size of the temporary files depends on the size of the replayed audit trails.

You can install the Safeguard Desktop Player application with user privileges.

# Hardware specifications

One Identity Safeguard for Privileged Sessions appliances are built on high performance, energy efficient, and reliable hardware that are easily mounted into standard rack mounts.

**Table 3: Hardware specifications**

Product	Redundant PSU	Processor	Memory	Capacity	RAID	IPMI
SPS T-4	Yes	Intel(R) Xeon(R) E3-1275V2 @ 3.50GHz	2 x 4 GB	4 x 2 TB	LSI MegaRAID SAS 9271-4i SGL	Yes
SPS T-10	Yes	2 x Intel(R) Xeon(R) E5-2630V2 @ 2.6GHz	8 x 4 GB	13 x 1 TB	LSI 2208 (1GB cache)	Yes
Safeguard Sessions Appliance 3000	Yes	1x Intel Xeon E3-1275 3.60GHz 8Core	2 x 16 GB	4x2 TB NLSAS	LSI MegaRAID SAS 9361-4i Single	Yes
Safeguard Sessions Appliance 3500	Yes	2x Intel Xeon Silver 4110 2.1Ghz 8Core (=16Core)	8 x 8 GB	9x2 TB NLSAS	1 x Broadcom MegaRAID SAS 9361-16i + LSI Avago CacheVault Power Module 02 (CVPM02) Kit	Yes

The Safeguard Sessions Appliance 3500 is equipped with a dual-port 10Gbit interface. This interface has SFP+ connectors (not RJ-45) labeled A and B, and can be found right of the Label 1 and 2 Ethernet interfaces. If you want faster communication, for example, in case of high data load, you can connect up to two 10Gbit network cards. These cards are not shipped with the original package and have to be purchased separately.

## Product licensing

### **To enable a trial license**

1. Visit the [Download Trials page](#), and navigate to **One Identity Safeguard for Privileged Sessions > Download Free trial**.

2. Complete the registration form, and click **Download Trial**.
3. You will receive the details on how to access your license key and the download the ISO files in email.

### **To enable a purchased commercial license**

1. Navigate to **My Account > My License Assets** on the support portal.
2. To access your license key, click **Retrieve Key** next to your product.
3. Once you have the license keys, navigate to **My Account > My Products** and click **Download** next to your product. The **Download Software** page is displayed.
4. Download the ISO image (install cdrom) of your product.

If you need help with accessing your license, navigate to the [Licensing Assistance](#) page, and follow the instructions on screen.

## Upgrade and installation instructions

The One Identity Safeguard for Privileged Sessions appliance is built specifically for use only with the One Identity Safeguard for Privileged Sessions software that is already installed and ready for immediate use.

### **To upgrade to One Identity Safeguard for Privileged Sessions 6.1**

#### **⚠ CAUTION:**

**Due to a change in the underlying database, the upgrade process removes all risk scores generated earlier by One Identity Safeguard for Privileged Analytics. Sessions initiated after the upgrade will be scored again.**

For step-by-step instructions on upgrading to SPS 6.1, see [Upgrade Guide](#).

### **About feature releases**

This is a feature release, which means that it will be supported for 6 months after the release date or 2 months after the release of a succeeding feature release (whichever date is later). It also means that if you are running a previous feature release (such as versions 5 F1 or 5 F2), you have 2 months to upgrade to version 6.1 if you want to keep running on a supported release.

For a full description of long-term-supported and feature releases, open the [SPS product page on the Support Portal](#) and navigate to **Product Life Cycle & Policies > Product Support Policies > Software Product Support Lifecycle Policy**.

### **If you have a physical appliance based on MBX hardware**

One Identity recommends you to upgrade to SPS 6.1, if you are not running SPS on Pyramid hardware and any of the following is true:

**NOTE:**

If you do not know the type of your hardware, see [If you have a physical appliance based on Pyramid hardware](#).

- You wish to take advantage of any of the new features.
- You are running a previous feature release.
- You are OK with having to continuously upgrade to the latest feature release to remain supported.

We are releasing new feature releases approximately once every 2 months.

## If you have a physical appliance based on Pyramid hardware

Do NOT upgrade to SPS 6.1 if you are running SPS on Pyramid hardware:

### Downgrading from a feature release

Do NOT downgrade from a feature release.

**CAUTION:**

**Downgrading from a feature release is not supported. If you upgrade from an LTS release (for example, 4.0) to a feature release (4.1), you have to keep upgrading with each new feature release until the next LTS version (in this case, 5.0) is published.**

## Verify successful installation

Navigate to **Basic Settings > System > Version details** and verify that SPS is running version 6.1 of the firmware. If not, it means that the upgrade process did not complete properly and SPS performed a rollback to revert to the earlier firmware version. In this case, complete the following steps:

1. Navigate to **Basic Settings > Troubleshooting > Create support bundle** and click **Create support bundle**.
2. Save the resulting ZIP file.
3. contact our Support Team and send them the file. They will analyze its contents to determine why the upgrade was not completed and assist you in solving the problem.

## More resources

To obtain more information, read the technical documentation or consult the community:

- [One Identity Safeguard for Privileged Sessions - Technical Documentation](#)
- [One Identity Community](#)

## Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan. It supports bidirectional writing (Arabic and Hebrew). The release supports Complex Script (Central Asia – India, Thailand).

This release has the following known capabilities or limitations: OCR is limited to Nuance supported languages. No support for RTL languages.

## About us

One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

## Contacting us

For sales or other inquiries, visit <https://www.oneidentity.com/company/contact-us.aspx> or call +1-800-306-9329.

## Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at <https://support.oneidentity.com/>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to videos at [www.YouTube.com/OneIdentity](http://www.YouTube.com/OneIdentity)
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

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