

# One Identity Safeguard for Privileged Sessions

## Release Notes

**Version 7.0.5.1 LTS LTS**

**18 October 2024, 11:48**

These release notes provide information about the One Identity Safeguard for Privileged Sessions release. For the most recent documents and product information, see [Online product documentation](#).

## About this release

One Identity Safeguard for Privileged Sessions Version 7.0.5.1 LTS is a maintenance release with resolved issues. For details, see:

- [Resolved issues](#)
- [Known issues](#)

**NOTE:** For a full list of key features in One Identity Safeguard for Privileged Sessions, see the *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.

# Resolved issues

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

**Table 1: General resolved issues in release 7.0.5.1 LTS**

Resolved Issue	Issue ID
<p>Mouse algorithm baselines can grow too large preventing backup to happen.</p> <p>After this patch, mouse baselines are cleaned up much earlier.</p>	441246
<p>The system backup has been updated to include a check of the analytics database size before initiating the backup procedure. This adjustment aims to prevent situations where the backup process might fill up the disk triggering the disk fill-up prevention.</p>	441254
<p>In cluster environments, if a node was elected as search master after it was used as a search local node, active sessions might appear and stuck on the sessions page as ACTIVE sessions.</p> <p>After the fix, old sessions are closed.</p>	441263
<p>Fixed CVE-2024-40595. For more information, see the <a href="#">knowledge base article</a>.</p>	339857
<p>The new behavior is that when the network address or prefix is not valid, the following error message comes up: "Invalid entry in the Routing table."</p> <p>The network address and the netmask do not match because you have used a network address that contains host bits. This could cause your machine to disconnect from the network. Make sure you use a network address that has no host bits set.</p>	340004
<p>When the files access permission is wrong on the server side, the user can see an informative error message.</p>	416926
<p>When the SPS REST API was accessed from PowerShell using the Invoke-WebRequest command, the request was rejected with the following error message: "Expected X-Token header to be sent in the request".</p> <p>This error was corrected.</p>	455087
<p>Auditors who used the SPS web UI with dark theme and were restricted by audit data access rule (ADAR) were unable to read the warning under the Sessions menu conveying the message "Your search results are limited. Learn more about ADARs." as the white text was displayed with a white background.</p> <p>This has been fixed and now the warning should be visible properly in dark theme mode as well.</p>	460481
<p>Fixed the issue where event processing could stop after a configuration</p>	460598

Resolved Issue	Issue ID
change.	
When SPP is overloaded, the SPP fetcher might time out. The default timeout of the used https library is 1 minute. The default timeout has been increased to 5 minutes.  The following configuration values can be used after the fix to increase the timeout values even further:	446838
<code>pam.vaultFetcher.requestTimeoutInSeconds</code>	
<code>pam.vaultFetcher.connectionTimeoutInSeconds</code>	
The graphs for the Pyhysical interface 4-5 are now shown as expected.	340003
Fixed Sudo IOlog DNS resolution timeout problem.  Previously, when SPStried to resolve a domain name when accepting a Sudo IOlog connection and the DNS server was unresponsive, it waited for too long to time out.  This has been fixed, and now the timeouts are correctly enforced when resolving domain names.	446227

**Table 2: Resolved Common Vulnerabilities and Exposures (CVE) in release 7.0.5.1 LTS**

Resolved issue	Issue ID
apparmor:	CVE-2016-1585
bind9:	CVE-2024-0760
	CVE-2024-1737
	CVE-2024-1975
	CVE-2024-4076
busybox:	CVE-2022-48174
cpio:	CVE-2015-1197
	CVE-2023-7207
cups:	CVE-2024-35235
curl:	CVE-2024-2398
	CVE-2024-7264
freerdp2:	CVE-2024-22211
	CVE-2024-32039

<b>Resolved issue</b>	<b>Issue ID</b>
	CVE-2024-32040
	CVE-2024-32041
	CVE-2024-32458
	CVE-2024-32459
	CVE-2024-32460
	CVE-2024-32658
	CVE-2024-32659
	CVE-2024-32660
	CVE-2024-32661
glib2.0:	CVE-2024-34397
glibc:	CVE-2024-2961
	CVE-2024-33599
	CVE-2024-33600
	CVE-2024-33601
	CVE-2024-33602
gnutls28:	CVE-2024-28834
jinja2:	CVE-2024-34064
klibc:	CVE-2016-9840
	CVE-2016-9841
	CVE-2018-25032
	CVE-2022-37434
krb5:	CVE-2024-37370
	CVE-2024-37371
less:	CVE-2024-32487
libvpx:	CVE-2024-5197
linux:	CVE-2021-46926
	CVE-2021-47063
	CVE-2021-47070
	CVE-2022-48655

<b>Resolved issue</b>	<b>Issue ID</b>
	CVE-2022-48674
	CVE-2023-23000
	CVE-2023-23004
	CVE-2023-24023
	CVE-2023-46838
	CVE-2023-47233
	CVE-2023-52530
	CVE-2023-52600
	CVE-2023-52603
	CVE-2023-52629
	CVE-2023-52752
	CVE-2023-52760
	CVE-2023-6270
	CVE-2024-0607
	CVE-2024-1086
	CVE-2024-2201
	CVE-2024-23307
	CVE-2024-23851
	CVE-2024-24855
	CVE-2024-24860
	CVE-2024-24861
	CVE-2024-26581
	CVE-2024-26583
	CVE-2024-26584
	CVE-2024-26585
	CVE-2024-26586
	CVE-2024-26589
	CVE-2024-26614
	CVE-2024-26622

<b>Resolved issue</b>	<b>Issue ID</b>
	CVE-2024-26642
	CVE-2024-26643
	CVE-2024-26712
	CVE-2024-26733
	CVE-2024-26828
	CVE-2024-26830
	CVE-2024-26886
	CVE-2024-26889
	CVE-2024-26907
	CVE-2024-26921
	CVE-2024-26922
	CVE-2024-26923
	CVE-2024-26925
	CVE-2024-26926
	CVE-2024-26929
	CVE-2024-27019
	CVE-2024-36016
	CVE-2024-36901
	CVE-2024-39484
nghttp2:	CVE-2024-28182
nss:	CVE-2023-4421
	CVE-2023-5388
	CVE-2023-6135
openjdk-lts:	CVE-2024-21011
	CVE-2024-21012
	CVE-2024-21068
	CVE-2024-21085
	CVE-2024-21094
	CVE-2024-21131

<b>Resolved issue</b>	<b>Issue ID</b>
	CVE-2024-21138
	CVE-2024-21140
	CVE-2024-21144
	CVE-2024-21145
	CVE-2024-21147
	CVE-2024-3094
openssl:	CVE-2024-2511
	CVE-2024-4741
	CVE-2024-5535
php7.4:	CVE-2022-4900
	CVE-2024-2756
	CVE-2024-3096
	CVE-2024-5458
pillow:	CVE-2024-28219
postgresql-12:	CVE-2024-7348
python-idna:	CVE-2024-3651
python-zipp:	CVE-2024-5569
python3.8:	CVE-2023-6597
	CVE-2024-0397
	CVE-2024-0450
	CVE-2024-4032
tiff:	CVE-2023-3164
util-linux:	CVE-2024-28085
vim:	CVE-2024-22667
	CVE-2024-41957
	CVE-2024-43374
wget:	CVE-2024-38428



# Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

**Table 3: General known issues**

## Known Issue

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### CAUTION:

After upgrading to version 7.0 LTS, SPS requires a new license. To avoid possible downtimes due to certain features not being available, before starting the upgrade, ensure that you have a valid SPS license for 7.0 LTS.

Upgrade as follows:

1. Perform the upgrade to 7.0 LTS with your current license.
2. Update your SPS license to 7.0 LTS.

For a new SPS license, contact our Licensing Team.

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TLS version 1.3 is not supported when using the inWebo, Okta or One Identity Starling 2FA plugins. To ensure that TLS 1.2 is used by SPS during negotiation, specify the minimum and maximum TLS version as follows:

- For the minimum TLS version, select TLS version 1.2.
- For the maximum TLS version, select TLS version 1.3.

For more information, see *Verifying certificates with Certificate Authorities using trust stores* in the *Administration Guide*.

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The accuracy of replaying audit trails in Asian languages (Traditional Chinese, Korean) has been enhanced. Due to this change, when upgrading SPS to version 6.11.0, all your sessions will be reindexed, and while reindexing is in progress, your sessions on the Search interface are incomplete. For this reason, plan your upgrade to SPS 6.11.0 accordingly.

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Report generation may fail if a report subchapter references a connection policy that has been deleted previously.

SPS can create reports giving detailed information about connections of every connection policy. For this, the user can add connection subchapters in the **Report Configuration Wizard**, under **Reporting > Create & Manage Reports**.

For a successful report generation, the referenced connection policy must exist on the appliance. However, when deleting a connection policy that is referenced as a connection subchapter, the user is not warned that the report subchapter must be removed, otherwise the subsequent report generation will fail.

This affects scheduled report generation as well.

**Table 4: General known issues**

<b>Known Issue</b>	<b>Issue ID</b>
External indexer disconnected due to certificates expiry. You are only affected by this issue if you have enabled external indexing while running SPS version 6.0.4 or 6.4.0 or later where the external indexer certificates were created with a limit of 800 days. To resolve this issue, see <a href="#">External indexer disconnected due to certificates expiry (4368875) (oneidentity.com)</a> .	PAM-16883

## System requirements

Before installing SPS 7.0.5.1 LTS, 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:

**NOTE:** When setting up a virtual environment, carefully consider the configuration aspects such as CPU, memory availability, I/O subsystem, and network infrastructure to ensure the virtual layer has the necessary resources available. For more information about environment virtualization, see [One Identity's Product Support Policies](#).

# Supported web browsers and operating systems

## ⚠ CAUTION:

From version 6.13.0, SPS does not support Internet Explorer 11 (IE11) anymore. SPS version 6.12.0 and previous versions continue to support IE11.

From SPS version 6.10, the Google WebM Video for Microsoft Internet Explorer plugin is not required for replaying audit trails in your browser. The supported browsers are:

- Google Chrome
- Firefox
- Safari
- Internet Explorer 11 (IE11) - supported until SPS version 6.12.0

For SPS version 6.9 and earlier versions, 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 Safeguard Desktop Player application. For details, see *Replaying audit trails in your browser* in the *Administration Guide* and *Safeguard Desktop Player User Guide*.

## ⚠ CAUTION:

SPS version 4 F3 and later versions do not support Internet Explorer 9 (IE9) and Internet Explorer 10 (IE10), as the official support of IE9 and IE10 ended in January, 2016.

**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 following browsers are supported:

- Mozilla Firefox (the latest version)
- Google Chrome
- Microsoft Edge (Microsoft Edge Legacy is not supported)

The browser must support TLS-encrypted HTTPS connections, JavaScript, and cookies. Make sure that both JavaScript and cookies are enabled.

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.

## Supported operating systems

The following operating systems are supported:

- Windows 2008 Server
- Windows 2012 Server
- Windows 2012 R2 Server
- Windows 2016
- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Linux

## Safeguard Desktop Player system requirements

The Safeguard Desktop Player application supports the following operating systems:

- **Microsoft Windows:**

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

- **Linux:**

RHEL 7, CentOS 7, or newer. The Safeguard Desktop Player application will probably run on other distributions as well that have at least libc6 version 2.17 installed.

Depending on the distribution, you will need to install the following packages:

- On Debian-based GNU/Linux:
  - libxcb-render-util0
  - libxcb-keysyms1
  - libxcb-image0
  - libxcb-randr0

- libxcb-xkb1
- libxcb-xinerama0
- libxcb-icccm4
- On CentOS/Red Hat:
  - xcb-util-renderutil
  - xcb-util-keysyms
  - xcb-util-image
- **Mac:**
  - macOS Catalina 10.15, or newer.

To install the Safeguard Desktop Player application, you need about 200MB 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 5: Hardware specifications**

Product	Redundant PSU	Processor	Memory	Capacity	RAID	IPMI
Safeguard Sessions Appliance 3000	Yes	1x Intel Xeon E3-1275 v6 3.80GHz	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	8 x 8 GB	9x2 TB NLSAS	1 x Broadcom MegaRAID SAS 9361-16i + LSI Avago CacheVault Power Module 02 (CVPM02) Kit	Yes
Safeguard Sessions	Yes	1 x Intel Xeon Silver	8 x 8 GB	4x20 TB SAS/SATA	1 x Broadcom	Yes

Product	Redundant PSU	Processor	Memory	Capacity	RAID	IPMI
Appliance 4000		ICX 4310T @ 2.30GHz, 10C/20T			9560-8i RAID controller 1 x Broadcom CacheVault battery	

The Safeguard Sessions Appliance 3500 is equipped with a dual-port 10Gbit interface. This interface has SFP+ connectors (not RJ-45) labeled 5 and 6, 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 7.0.5.1 LTS

For step-by-step instructions on upgrading to SPS 7.0.5.1 LTS, see *Upgrade Guide*.

**NOTE:** Due to legal reasons, installation packages of the external indexer application will be available only from the SPS web interface. After SPS versions 6.4 and 6.0.3 are released, the installation packages will be removed from our website.

### **CAUTION:**

Starting from 6.10.0, SPS (SPS) has changed to hardened SSL settings. As a result, during TLS session establishment, the following items are not considered secure:

- Private keys and X.509 certificates having RSA or DSA keys shorter than 2048 bits, or ECC keys shorter than 224 bits.
- Certificates (other than Root CA certificates) with signatures that use the SHA-1 or the MD5 hashing algorithm.

With the hardened SSL settings, SPS will not connect to remote systems that are protected with weak certificates.

You cannot upgrade SPS if your configuration contains insecure certificates, keys or certificate chains in any of the following sections:

- SPS web interface
- internal CA certificate
- connection policy TLS settings
- client X.509 credentials for external LDAP, SMTP or Syslog connections
- server X.509 certificates for external SMTP or Splunk servers
- external indexer credentials (only writable over the REST API)
- CA certificates in Trusted CA Lists and Trust Stores

Note that the certificates and keys that are used for signing, timestamping, encryption or decryption are not affected by this change.

## About feature releases

This is a feature release.

For more information on the product support, see [Product Support - One Identity Safeguard for Privileged Sessions](#).

For a full description of long-term-supported and feature releases, see [Product Life Cycle & Policies - One Identity Safeguard for Privileged Sessions](#).

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

One Identity recommends you to upgrade to SPS 7.0.5.1 LTS, 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 7.0.5.1 LTS 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 7.0.5.1 LTS 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.

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 and other inquiries, such as licensing, support, and renewals, visit <https://www.oneidentity.com/company/contact-us.aspx>.

## 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

# Third-party contributions

This appendix includes the open source licenses and attributions applicable to One Identity Safeguard for Privileged Sessions.

## GNU General Public License

Version 2, June 1991

1989, 1991 Free Software Foundation, Inc.

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Version 2, June 1991

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That's all there is to it!

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-  **WARNING:** A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.
  
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.