

One Identity Safeguard for Privileged Sessions 7.0.3.1 LTS

Release Notes

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

About this release

One Identity Safeguard for Privileged Sessions Version 7.0.3.1 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 [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 7.0.3.1 LTS

Resolved Issue	Issue ID
Typo on connection wizard page. In the Connection created page of Connection Wizard, the SPS address was missing. This has been corrected.	340527
Screenshot generation permission error notification is too eager to appear. If a user with read permission tried to view an already generated screenshot, SPS displayed a screenshot generation error. This issue has been corrected, and now the screenshot generation permission error is displayed only if the user who wants to generate a screenshot does not have read and write permission in the search access control list.	340529
Login Options LDAP servers: Missing validator for the same addresses. A validator has been added for the address list of the LDAP servers, to prevent the users from saving the list if there are multiple addresses with the same hostname and port. The address list must contain unique value pairs.	340563
License problem not apparent on side bar. In the About menu, the warning icons were not displayed when the extendable panels were closed. This has been corrected, and now, if there are warnings, the warning icons are displayed even if the expandable panels are closed.	340598
Too many configuration elements can cause reference_id error on the UI. Committing extremely large configuration changes on the web GUI could fail with the error "Form reference id received does not match stored value". This has been fixed and now such extremely large configuration changes are possible within a single commit. Also, the error message has been reworded to better describe the error condition and its possible resolutions.	403615
The permitted redirect devices in the RDP channel policy were not saved in the configuration during the commit. This issue has been corrected.	406786
The RAID status is not displayed after the installation Previously, at the end of the installation of Safeguard 4000, the RAID sync status was not displayed. This issue has been corrected.	407479
Connection to a remote SSH server running OpenSSH 7.4, or older,	415489

Resolved Issue	Issue ID
<p>through SPS can fail.</p> <p>If the relayed authentication method was set to 'Public key' with 'Agent' selected for an SSH Authentication policy and the target SSH server was running OpenSSH 7.4, 7.3, or 7.2, connecting to the server through SPS could fail.</p> <p>In this case, the following line was written in the log: "Client side public key signature algorithm is unsupported by the server; signature_algo='...'"</p> <p>This issue has been fixed. Public key authentication to remote SSH servers running OpenSSH 7.4, 7.3, or 7.2 now works.</p>	
<p>The network interface order was wrong on the 4000 series appliances, which caused that High Availability configuration is not working even with proper cabling. This issue has been corrected.</p>	424781
<p>There was a legacy RAID status checking during the precheck phase, which failed on the 4000 series appliance. The legacy RAID status checking is deprecated and a new precheck procedure has been introduced.</p>	425584

Table 2: Resolved Common Vulnerabilities and Exposures (CVE) in release 7.0.3.1 LTS

Resolved Issue	Issue ID
cloud-init:	CVE-2023-1786
erlang:	CVE-2022-37026
freetype:	CVE-2023-2004
ipmitool:	CVE-2020-5208
ldb:	CVE-2023-0614
libwebp:	CVE-2023-1999
libxml2:	CVE-2023-28484
	CVE-2023-29469
linux:	CVE-2022-3108
	CVE-2022-3903
	CVE-2023-1281
	CVE-2023-1829
	CVE-2023-26545
openjdk-lts:	CVE-2023-21930

Resolved Issue	Issue ID
	CVE-2023-21937
	CVE-2023-21938
	CVE-2023-21939
	CVE-2023-21954
	CVE-2023-21967
	CVE-2023-21968
openssl:	CVE-2023-0464
	CVE-2023-0465
	CVE-2023-0466
samba:	CVE-2023-0614
	CVE-2023-0922
sqlparse:	CVE-2023-30608
sudo:	CVE-2023-2848
	CVE-2023-28486
	CVE-2023-28487
vim:	CVE-2021-4166
	CVE-2021-4192
	CVE-2021-4193
	CVE-2022-0213
	CVE-2022-0261
	CVE-2022-0318
	CVE-2022-0319
	CVE-2022-0351
	CVE-2022-0359
	CVE-2022-0361
	CVE-2022-0368
	CVE-2022-0408
	CVE-2022-0413
	CVE-2022-0443

Resolved Issue	Issue ID
	CVE-2022-0554
	CVE-2022-0572
	CVE-2022-0629
	CVE-2022-0685
	CVE-2022-0714
	CVE-2022-0729
	CVE-2022-1629
	CVE-2022-1674
	CVE-2022-1720
	CVE-2022-1733
	CVE-2022-1735
	CVE-2022-1785
	CVE-2022-1796
	CVE-2022-1851
	CVE-2022-1898
	CVE-2022-1927
	CVE-2022-1942
	CVE-2022-1968
	CVE-2022-2124
	CVE-2022-2125
	CVE-2022-2126
	CVE-2022-2129
	CVE-2022-2175
	CVE-2022-2183
	CVE-2022-2206
	CVE-2022-2207
	CVE-2022-2304
	CVE-2022-2344
	CVE-2022-2345

Resolved Issue	Issue ID
	CVE-2022-2571
	CVE-2022-2581
	CVE-2022-2845
	CVE-2022-2849
	CVE-2022-2923
	CVE-2022-2946
	CVE-2022-2980

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
<p>⚠ CAUTION:</p> <p>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.</p> <p>Upgrade as follows:</p> <ol style="list-style-type: none"> 1. Perform the upgrade to 7.0 LTS with your current license. 2. Update your SPS license to 7.0 LTS. <p>For a new SPS license for 7.0 LTS, contact our Licensing Team.</p>

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](#).

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

Known Issue

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.

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

Known Issue	Issue ID
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 External indexer disconnected due to certificates expiry (4368875) (oneidentity.com) .	PAM-16883

System requirements

Before installing SPS 7.0.3.1 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. Please consult [One Identity's Product Support Policies](#) for more information on environment virtualization.

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 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-iccmm4
- 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 7.0.3.1 LTS

For step-by-step instructions on upgrading to SPS 7.0.3.1 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 LTS releases

This is a long-term-supported (LTS) 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 7.0.3.1 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 running a previous long-term-supported release.

If you have a physical appliance based on Pyramid hardware

Do NOT upgrade to SPS 7.0.3.1 LTS if you are running SPS on Pyramid hardware:

Verify successful installation

Navigate to **Basic Settings > System > Version details** and verify that SPS is running version 7.0.3.1 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.

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 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
- 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

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Version 2, June 1991

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- c. Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Legend

-  **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.