

One Identity Safeguard for **Privileged Sessions 7.0.1.1 LTS**

Release Notes

06 April 2023, 11:39

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 7.0.1.1 LTS is a maintenance release with known issues. For details, see:

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 7.0.1.1 LTS

Resolved Issue	Issue ID
RDP login could terminate all connections.	388421
In some rare cases, a domain user who successfully logged in to a domain-joined RDP server through SPS could cause all RDP connections to terminate. In this case, a core file was also generated. This issue mainly affected transparent connections, or connections where SPS was acting as an RD Gateway, and where the server was behaving in a specific incorrect way during SPNEGO-based NLA authentication.	
This has been fixed, the non-standard server behavior is now handled gracefully, and the affected connections can now pass.	
Using the default timeout for NFS mounts.	389010
Previously, the NFS timeout was set to $15\ \text{seconds}$, instead of the default value of $60\ \text{seconds}$.	
This has been fixed and now the default value is used.	
There was an upgrade scenario which could result in data loss if the Elasticsearch re-indexing did not finish before the upgrade. This issue has been resolved.	392760

Table 2: Resolved Common Vulnerabilities and Exposures (CVE) in release 7.0.1.1 LTS

Resolved Issue	Issue ID
bind9:	CVE-2022-2795
	CVE-2022-38177
	CVE-2022-38178
cloud-init:	CVE-2022-2084
curl:	CVE-2022-32221
	CVE-2022-35252
dbus:	CVE-2022-42010
	CVE-2022-42011
	CVE-2022-42012



Resolved Issue	Issue ID
expat:	CVE-2022-40674
	CVE-2022-43680
gmp:	CVE-2021-43618
gnutls28:	CVE-2021-4209
	CVE-2022-2509
heimdal:	CVE-2021-3671
	CVE-2022-3116
	CVE-2022-41916
isc-dhcp:	CVE-2022-2928
	CVE-2022-2929
jbigkit:	CVE-2017-9937
ldb:	CVE-2021-3670
	CVE-2022-32745
	CVE-2022-32746
libjpeg-turbo:	CVE-2020-17541
	CVE-2020-35538
	CVE-2021-46822
libksba:	CVE-2022-3515
libtirpc:	CVE-2021-46828
libxml2:	CVE-2016-3709
	CVE-2022-2309
	CVE-2022-40303
	CVE-2022-40304
libxslt:	CVE-2021-30560
linux:	CVE-2021-33061
	CVE-2021-33655
	CVE-2021-33656
	CVE-2022-1652
	CVE-2022-1679



Resolved Issue	Issue ID
	CVE-2022-1734
	CVE-2022-2586
	CVE-2022-2588
	CVE-2022-2602
	CVE-2022-28893
	CVE-2022-2978
	CVE-2022-29901
	CVE-2022-3028
	CVE-2022-3176
	CVE-2022-34918
	CVE-2022-3524
	CVE-2022-3564
	CVE-2022-3565
	CVE-2022-3566
	CVE-2022-3567
	CVE-2022-3594
	CVE-2022-3621
	CVE-2022-36946
	CVE-2022-40768
	CVE-2022-41674
	CVE-2022-42703
	CVE-2022-42719
	CVE-2022-42720
	CVE-2022-42721
multipath-tools:	CVE-2022-41973
	CVE-2022-41974
mysql-8.0:	CVE-2022-21509
	CVE-2022-21515
	CVE-2022-21517



Resolved Issue	Issue ID
	CVE-2022-21522
	CVE-2022-21525
	CVE-2022-21526
	CVE-2022-21527
	CVE-2022-21528
	CVE-2022-21529
	CVE-2022-21530
	CVE-2022-21531
	CVE-2022-21534
	CVE-2022-21537
	CVE-2022-21538
	CVE-2022-21539
	CVE-2022-21547
	CVE-2022-21553
	CVE-2022-21569
	CVE-2022-21594
	CVE-2022-21599
	CVE-2022-21604
	CVE-2022-21608
	CVE-2022-21611
	CVE-2022-21617
	CVE-2022-21625
	CVE-2022-21632
	CVE-2022-21633
	CVE-2022-21637
	CVE-2022-21640
	CVE-2022-39400
	CVE-2022-39408
	CVE-2022-39410



Resolved Issue	Issue ID
net-snmp:	CVE-2022-24805
	CVE-2022-24806
	CVE-2022-24807
	CVE-2022-24808
	CVE-2022-24809
	CVE-2022-24810
nginx:	CVE-2022-41741
	CVE-2022-41742
open-vm-tools:	CVE-2022-31676
openjdk-lts:	CVE-2022-21540
	CVE-2022-21541
	CVE-2022-34169
pcre2:	CVE-2022-1586
	CVE-2022-1587
perl:	CVE-2020-16156
php7.4:	CVE-2022-31628
	CVE-2022-31629
	CVE-2022-31630
	CVE-2022-37454
pillow:	CVE-2022-22817
	CVE-2022-24303
	CVE-2022-45198
pixman:	CVE-2022-44638
postgresql-12:	CVE-2022-2625
python3.8:	CVE-2022-37454
	CVE-2022-45061
rsync:	CVE-2022-37434
samba:	CVE-2021-3670
	CVE-2022-2031



Resolved Issue	Issue ID		
	CVE-2022-32742		
	CVE-2022-32744		
	CVE-2022-32745		
	CVE-2022-32746		
shadow:	CVE-2013-4235		
sqlite3:	CVE-2020-35525		
	CVE-2020-35527		
	CVE-2021-20223		
	CVE-2022-35737		
strongswan:	CVE-2022-40617		
sysstat:	CVE-2022-39377		
tiff:	CVE-2022-0907		
	CVE-2022-0908		
	CVE-2022-0909		
	CVE-2022-0924		
	CVE-2022-1354		
	CVE-2022-1355		
	CVE-2022-2056		
	CVE-2022-2057		
	CVE-2022-2058		
	CVE-2022-22844		
	CVE-2022-2867		
	CVE-2022-2868		
	CVE-2022-2869		
	CVE-2022-34526		
	CVE-2022-3570		
	CVE-2022-3598		
	CVE-2022-3599		
	CVE-2022-3970		



Resolved Issue	Issue ID		
vim:	CVE-2022-0943		
	CVE-2022-1154		
	CVE-2022-1616		
	CVE-2022-1619		
	CVE-2022-1620		
	CVE-2022-1621		
wayland:	CVE-2021-3782		
zlib:	CVE-2022-37434		

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

▲ 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 for 7.0 LTS, contact our Licensing Team.

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.



Known Issue

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.

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.	PAM-
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	16883

To resolve this issue, see External indexer disconnected due to certificates expiry (4368875) (oneidentity.com).

System requirements

certificates were created with a limit of 800 days.

Before installing SPS 7.0.1.1 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



Supported web browsers and operating systems

A 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.

A 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 1366×768 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	Yes



Product	Redundant PSU	Processor	Memory	Capacity	RAID	IPMI
					CacheVault Power Module 02 (CVPM02) Kit	

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

- 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.
- 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 7.0.1.1 LTS

For step-by-step instructions on upgrading to SPS 7.0.1.1 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.

A 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 7.0.1.1 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 7.0.1.1 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 7.0.1.1 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:

- 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.



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Version 2, June 1991

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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.

