

Safeguard Authentication Services 6.0 LTS

Release Notes

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These release notes provide information about the Safeguard Authentication Services 6.0 LTS release. For the most recent documents and product information, see [Safeguard Authentication Services - Technical Documentation](#).

About this release

Safeguard Authentication Services extends the capabilities of UNIX, Linux, and Mac systems to seamlessly and transparently join Active Directory and integrate UNIX identities with Active Directory Windows accounts.

Safeguard Authentication Services 6.0 LTS is a major release that includes various bug and stability fixes. For a list of fixes included in this release, see [Resolved issues](#).

End of support notice

After careful consideration, One Identity ceased the development of Management Console for Unix (MCU). Therefore, MCU entered limited support for all versions on 01 April 2021, with support for all versions reached end of life on 01 November 2021. For the definitions of support, see the [Software Product Support Lifecycle Policy](#).

As One Identity retired the MCU, its feature set has been built into modern platforms, starting with Software Distribution and Profiling. Customers that use MCU to deploy Safeguard Authentication Services and Safeguard for Sudo can now use the One Identity Ansible collections for those products. For the Ansible collections, see [Ansible Galaxy](#).

New features

New features in version 6.0 LTS

The following features have been added:

- Added a new Functionality Group Policy option to enable or disable Siri. If this option is disabled, Siri cannot be enabled on the client.

Enhancements

The following is a list of enhancements implemented in Safeguard Authentication Services 6.0 LTS.

Table 1: General enhancements

Enhancement	Issue ID
The Windows Autorun tool has been updated so that it has the latest One Identity appearance.	245892
From now on, the client's DNS entries can be removed during unjoining from an Active Directory. In <code>/etc/opt/quest/dnsupdate.conf</code> , a new configuration option (<code>RemoveDnsRecordsAtUnjoinTime</code>) allows removing the client's DNS entries when the client gets unjoined from an Active Directory.	367617
RPM packages are now signed using the hash algorithm SHA-512 instead of SHA-256.	441231
Previously, any modifications made to files in <code>/usr/share/authselect/vendor/AuthenticationServices/</code> have been overwritten by <code>vasclnt</code> package install. All files containing any modifications are now kept without being overwritten.	436073
The <code>vastool inspect</code> command can now output configuration values in list format. It is now possible to display the value of <code>vasypd/nismaps</code> , or the entries of the <code>vasproxyd</code> and <code>vas_host_services</code> configuration groups.	439546
Previously, Sudoers Group Policy items have been added to the <code>sudoers</code> file without considering if the password field is required. Now all Group Policy items not requiring a password are added after the others, therefore passwords are not required where they are not needed.	443109

Resolved issues

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

Table 2: General resolved issues in version 6.0 LTS

Resolved Issue	Issue ID
<p>On macOS, some code signature-related files remained on the file system after uninstalling the product.</p> <p>This issue is now fixed, and the files get removed.</p>	322269
<p>On newer Linuxes (such as RHEL 9.2), the <code>vasc1nt</code> package required installing the <code>libxcrypt-compat</code> package to work.</p> <p>This dependency is not present anymore.</p>	426583
<p>On macOS, <code>PolicyRefreshRate</code> did not work as described in the documentation, <code>policy refresh</code> was called more frequently.</p> <p><code>PolicyRefreshRate</code> now works as described in the documentation on macOS.</p>	387219
<p><code>vas_status.sh</code> has been extended with new checks.</p> <p>From now on, the permissions on directory <code>/bin</code> and file <code>/bin/sh</code> will be checked. <code>vas_status.sh</code> will report failure if the permissions are not acceptable.</p>	435016
<p>Fixed an issue where the <code>vastool timesync</code> command did not list the time zone when showing the current time and date.</p>	435698
<p>From now on, <code>vasd</code> logs a message when the <code>grent</code> or <code>pwent flush</code> takes a long time.</p>	436715
<p>So far, the UNIX account import wizard tool has not picked a group name consistently while importing groups from a NIS server.</p> <p>From now on, the tool will choose the shortest group name. If there is no single shortest name, it will choose the first one in lexicographical order.</p>	437925
<p>Logging messages in <code>pam_vas</code> has been improved.</p> <p>Previously, several error messages were logged at level <code>debug</code>. From now on, error messages will be logged at level <code>err</code>.</p>	436717
<p>Previously, AIX version numbers sometimes had a 5-digit <code>FixLevel</code> value, which is considered invalid according to the AIX system documentation.</p> <p>This issue is now fixed, the <code>FixLevel</code> value in the AIX version number has only 4 digits.</p>	416547
<p>The <code>vastool status</code> command now issues a warning if <code>default_etypes</code> is only configured to insecure encryption algorithms, or <code>smb-dialect-range</code> limits Samba to use the old protocol.</p>	438260

Resolved Issue	Issue ID
The version number of the pamdefender package now follows the version of Safeguard Authentication Services.	438315
When the Control Center was not able to bind an object in AD (for example, QAC), it displayed an error message that lacked any details. From now on, the error message will contain the LDAP URL of the object.	440174
From now on, Safeguard Authentication Services can handle if a computer object account is reset in Active Directory, just like a Windows client. This issue was fixed by making sure that Safeguard Authentication Services changes the computer account's password as soon as it discovered that the password has been reset to its default value.	440695
Fixed an issue where if pam_access.so is being used in a PAM file, vasd may be blocked from working properly. vastool status now checks if pam_access.so is being used in any PAM file, and vas_snapshot.sh grabs files related to pam_access.	443124
The existence of /usr/bin/startsrc will be checked only on AIX, therefore it will not interfere with optionally installed extra packages on non-AIX systems.	444151
New vasc1nt installs on Solaris 10 now add a user-override configuration line, which overrides the home directories of AD users stored under /export/home/<username>. In previous versions, this override configuration was only created on Solaris 11.	438524
/var/opt/quest/vas/vasd/.vasd_ipv4 and .vasd_ipv6 files should have been created by vasd with the same owner as the other files in the same directory. However, they were always created with the owner root. This issue is now fixed.	441962
Fixed an issue where vascert has shown the following exception when running on Oracle Java: <pre>java.lang.SecurityException: JCE cannot authenticate the provider BC</pre> Now vascert ships this cryptography extension as a signed jar, so the error should disappear. OpenJDK did not have this requirement, and therefore was not affected.	442481
A new vas.conf option was added to control DNS resolve-retries in the case of resolve failures. The default value is 3, which can be overridden by setting resolve-retries to the libvas section of vas.conf.	438351
Previously, the vgptool could not apply script group policies if /tmp has been	445979

Resolved Issue	Issue ID
mounted with the noexec flag, and the script has been requested to run in the name of a specified user. This issue is now fixed.	
Fixed an issue where an unnecessary error message was displayed when a GPO containing a login script was applied with vgptool. This error message is no longer displayed.	299067
Fixed an issue where vgptool crashed when the KRB5_CONFIG environment variable was set to an empty string.	435807
Previously, when multiple GPOs were configured, only one of them was applied on macOS. Now all policies are written to file and applied.	446657
The vastool status script now uses grep -E instead of egrep if supported, because egrep issues deprecation warnings on newer systems (for example, Fedora 38).	431444
Previously, user logins in permanent-disconnected authentication mode could fail if the encryption type of the Kerberos ticket did not match the encryption type of the session for the cached material. This happened often if ARCFOUR and AES encryption types are both enabled in the KDC.	440134
Previously, the pam_config utility crashed if the PAM configuration's directives specify an infinite recursion (for example, when two configuration files both include the other). Now the tool reports an error instead.	445289
macOS Profile Helper is now started automatically from launchd using spawn constraints to increase security and ensure working on the most recent macOS versions.	448880
Fixed a vasd crash on HP-UX that could occur during user login.	449063
Updated the error message shown when macOS version requirements are not met.	434983

Supported platforms

The following table provides a list of supported UNIX and Linux platforms for Safeguard Authentication Services.

- CAUTION:** As of Safeguard Authentication Services version 6.0 LTS, the following platforms and architectures are no longer supported:
- CentOS Linux 6

- **Apple MacOS 11.3**
- **Oracle Enterprise Linux (OEL) 6**
- **Red Hat Enterprise Linux (RHEL) 6**

Table 3: UNIX agent: Supported platforms

Platform	Version	Architecture
Alma Linux	8, 9	x86_64, AARCH64, PPC64le, s390x
Amazon Linux	AMI, 2, AL2022	x86_64
Apple MacOS	12.0 and above	x86_64, ARM64
CentOS Linux	7, 8	s390x, PPC64, PPC64LE, x86, x86_64, AARCH64
CentOS Stream	8, 9	x86_64, AARCH64, PPC64LE, s390x
Debian	Current supported releases	x86_64, x86, AARCH64
Fedora Linux	Current supported releases	x86_64, x86, AARCH64, PPC64LE
FreeBSD	12.x, 13.x, 14.x	x86_64
HP-UX	11.31	IA-64
IBM AIX	6.1 TL9, 7.1 TL3, TL4, TL5, 7.2, 7.3	Power 4+
OpenSuSE	Current supported releases	x86_64, x86, AARCH64, PPC64LE, s390x
Oracle Enterprise Linux (OEL)	7, 8, 9	x86_64, AARCH64
Oracle Solaris	10 8/11 (Update 10), 11.x	SPARC, x64
Red Hat Enterprise Linux (RHEL)	7, 8, 9	s390x, PPC64, PPC64LE, x86, x86_64, AARCH64
Rocky Linux	8, 9	x86_64, AARCH64, PPC64LE, s390x
SuSE Linux Enterprise Server (SLES)/Workstation	12, 15	s390x, PPC64, PPC64LE, x86, x86_64, AARCH64
Ubuntu	Current supported releases	x86_64, x86, AARCH64

System requirements

Before installing Safeguard Authentication Services 6.0 LTS, ensure that your system meets the minimum hardware and software requirements for your platform. The operating system patch level, hardware, and disk requirements vary by UNIX, Linux, and Active Directory platform, and are detailed in the *One Identity Safeguard Authentication Services Administration Guide*.

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](#).

Product licensing

Safeguard Authentication Services must be licensed in order for Active Directory users to authenticate on UNIX and macOS hosts.

NOTE: While you can install and configure Safeguard Authentication Services on Windows and use the included management tools to UNIX-enable users and groups in Active Directory without installing a license, you must have a valid Safeguard Authentication Services license installed for full functionality.

Upon receiving your license file from One Identity, copy this license file to your desktop or other convenient location.

To add licenses using the Control Center

1. Open the Control Center and click **Preferences** on the left navigation pane.
2. Expand the **Licensing** section.
The list box displays all licenses currently installed in Active Directory.
3. Click **Actions > Add a license**.
4. Browse for the license file and click **Open**.
The license appears in the list box.

To add licenses directly to the UNIX systems

1. Add a valid license file to `/etc/opt/quest/vas/.licenses/` directory.
2. Validate with `/opt/quest/bin/vastool license -i`.

Upgrade and installation instructions

The process for upgrading the Safeguard Authentication Services Windows components from older versions is similar to the installation process. The Windows installer detects older versions and automatically upgrades them. The next time you launch Active Directory Users and Computers, Safeguard Authentication Services uses the updated Windows components. For detailed installation instructions, see the *One Identity Safeguard Authentication Services Installation Guide*.

For more detailed information about upgrading your current version of Safeguard Authentication Services, see the *One Identity Safeguard Authentication Services Upgrade Guide*.

Of course, you may perform your UNIX client management tasks from the UNIX command line, if you prefer. You can find those instructions in the *One Identity Safeguard Authentication Services Administration Guide*.

Windows and cloud requirements

The following are the minimum requirements for using Safeguard Authentication Services in your environment.

Table 4: Safeguard Authentication Services requirements

System requirements	
Supported Windows Platforms	<p>Prerequisite Windows software</p> <p>If the following prerequisite is missing, the Safeguard Authentication Services installer suspends the installation process to allow you to download the required component. It then continues the install:</p> <ul style="list-style-type: none">• Microsoft .NET Framework 4.7.2 <p>You can install Safeguard Authentication Services on 64-bit editions of the following configurations:</p> <ul style="list-style-type: none">• Windows Server 2012• Windows Server 2012 R2• Windows Server 2016• Windows Server 2019• Windows Server 2022• Windows 10• Windows 11

System requirements

	<p>NOTE: Due to tightened security, when running Safeguard Authentication Services Control Center on Windows Server operating system, functioning as a domain controller, the process must be elevated or you must add authenticated users to the Distributed COM Users group on the computer. As a best practice, One Identity does not recommend that you install or run the Safeguard Authentication Services Windows components on Active Directory domain controllers. The recommended configuration is to install the Safeguard Authentication Services Windows components on an administrative workstation.</p>
Supported cloud services	<ul style="list-style-type: none">• AWS Directory Service for Microsoft Active Directory (also called AWS Managed Microsoft AD)• Azure Active Directory Domain Services• Google Cloud Platform Managed Service for Microsoft Active Directory

More resources

Additional information is available from the following:

- Online product documentation: <https://support.oneidentity.com/safeguard-authentication-services/technical-documents>
- UNIX Access Management Community forum: <https://www.quest.com/community/one-identity/unix-access-management/>

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.

This release has the following known capabilities or limitations: There is no localization.

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/>.

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- 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 product contains some third-party components (listed below). Copies of their licenses may be found at referencing <https://www.oneidentity.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (*) is available at <http://opensource.quest.com>.

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The End

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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.