

# Safeguard Authentication Services 5.1

## Release Notes

**13 October 2022, 20:37**

These release notes provide information about the Safeguard Authentication Services 5.1 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 5.1 is a minor release that includes various bug and stability fixes. See [Resolved issues](#) for a list of fixes included in this release.

### End of support notice

After careful consideration, One Identity has decided to cease the development of the Management Console for Unix (MCU). Therefore, the MCU will enter limited support for all versions on April 1, 2021. Support for all versions will reach end of life on Nov 1, 2021. For definitions of support, see the [Software Product Support Lifecycle Policy](#).

As One Identity retires the MCU, we are building its feature set into modern platforms starting with Software Distribution and Profiling. Customers that use the MCU to deploy Authentication Services and Safeguard for Sudo can now use our Ansible collections for those products, which can be found at [Ansible Galaxy](#).

# New features

## New features in version 5.1

Safeguard Authentication Services now supports the following operating systems:

- Redhat Enterprise Linux 9

The following features have been added:

- Now `[libdefaults] / default_etypes` can be configured by Group Policy.
- New Group Policy Object has been added for custom service configuration.
- Added `vasgmsaupdate` service which can be used to keep gMSA keytabs up to date.
- DMG is notarized and stamped, it can be installed without security warnings even in an offline environment.
- You can enable enhanced log mode. With enhanced log mode, all messages are written as key-value pairs. It can be enabled by setting the `enhanced-log-mode = true` in the `[vasd]` section of `vas.conf`.
- Sudoers Group Policy Object now supports specifying custom path for sudoers. When changing the path, the old sudoers is moved to the new place with configurations applied. This feature requires sudo version 1.8.12 or later. For older sudo versions the value of the option is ignored.

The following upgrades have been made:

- SQLite has been upgraded to version 3.38.4.
- Vascert package is now compatible with Java version 1.8 or later.

# Resolved issues

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

**Table 1: General resolved issues in version 5.1**

Resolved Issue	Issue ID
Now <code>[libdefaults] / default_etypes</code> can be configured by Group Policy.	198285
Adding a license with <code>Protect from Accidental Deletion</code> checked caused the QAC to go to schemaless mode.	222905

So far, the program has worked like this: if any part of the QAC changed, the entire QAC was deleted and re-created. Because of this, changes to the License section may have affected the Schema section. From now on, the Schema section will be deleted and re-created on if any part of Schema was

Resolved Issue	Issue ID
modified.	
<p>Fixed the issue where vascert pulse fails on macOS due to insufficient rights to fetch identities from the certificate store.</p> <p>The certstore-mac.sh script now gives right to extract the needed identities from the certificate store for newly enrolled certificates. If there is no right given (for certificates enrolled before the fix), the script falls back to fetching their public part only (without the private key), and attempts certificate re-enroll instead of renewal if it is expired or close to expiration.</p>	257242
<p>Expired certificates caused endless certificate renewals resulting in lots of certificates in the certificate store slowing down login and anything using them.</p> <p>vascert can now identify that a certificate already exists for a group policy and attempts to remove the old certificate from the certificate store on a successful re-enroll or renewal. The list of old certificates caused by the issue are also cleaned up, which can result in slow performance during the first pulse (for example, login). For deleting a certificate, vascert uses the previously unused API delete-user-cert / delete-machine-cert have changed: they get the SHA fingerprint of the certificate as a parameter instead of the certificate path. In case of using custom scripts, they need to be updated accordingly.</p>	258137
<p>Creating an invalid sudoers group policy object resulted in restoring it to the default sudoers file. After the fix, the previous good version of sudoers gets restored.</p>	292488
<p>Added support for Redhat Enterprise Linux 9.</p>	300172
<p>When using LAM on AIX, passwordless login did not create home directory. After the fix it will create it.</p>	300594
<p>vasd could crash when a unix enabled user's userPrincipalName contained only the @domain part.</p> <p>If a unix enabled user's userPrincipalName attribute value contained only the @domain part, the username part was missing (which is an invalid value) and the username-attr-name option in vas.conf was set to userPrincipalName and the lowercase-names option in vas.conf was set to true, vastool list -f user username resulted in a segmentation fault in vasd. After the fix vasd will not crash.</p>	301115
<p>If vastool configure selinux failed, the reason of failure was written to the console only on debug level 3 or above.</p> <p>If vastool configure selinux failed, only the following message was written to the console:</p> <pre>Adding vasd SELinux Policy ... Failed</pre>	301253

Resolved Issue	Issue ID
The reason of failure was written to the console only on debug level 3 or above. After the modification, the reason of failure will be written to the console even on debug level 0.	
vastool configure selinux failed on RHEL 9. vastool configure selinux failed on RHEL 9 because it assumed that both /etc/rc.d/init.d/vasd and /etc/init.d/vasd exist. However, on RHEL 9 only the latter exists.	301254
Better support for systemd. If systemd is running as an init system, all service management is now done through it. This fixes some issues when systemd could not track the status of the services. rc.d runlevel directory symlinks won't be created by the installer packages, because they caused install errors when the sysv compatibility package was not installed. Distributions using sysv init systems are not effected and remain supported.	301580
If a cached user has a name length longer than Solaris OS would accept, vastool status will warn about it. Solaris can have a user name length issue. If a cached user has a name length longer than Solaris OS would accept, vastool status will warn about it.	302499
A new disk speed test has been added to vastool status. A new test has been added to vastool status, which checks if we can write to the normal filesystem in a reasonable amount of time.	304457
ktutil was not working on FreeBSD 13.x ktutil and vastool status showed 'libncurses.so.8 not found, required by "ktutil"' error message. The vasclnt package will now create the necessary symlinks to fix that issue.	305037
vastool configure pam has been fixed on SLES systems, now it modifies /etc/pam.d/common files correctly. SLES has separate auth, account, password and session PAM common files. The vastool configure pam adds the session, password and auth items in the right common file.	308578
The command vastool configure sudo failed to add the line Defaults always_query_group_plugin to sudoers file if sudo's version was higher than 1.8.14.	311037
As of QAS 4.0 vastool license output has been confusing: 'Number of Licensed Unix Enabled Users' always remained zero. The confusing line has been removed. As of QAS 4.0 there are no longer any user limits in QAS. All valid licenses allow for an unlimited number of users. However, when the license model was changed to server based the output of vastool license became confusing:	311610

Resolved Issue	Issue ID
the entry under 'Number of Licensed Unix Enabled Users' always remained zero. The confusing line has been removed.	
install.sh now calls dnf to install RPM packages on RPM based Linux distributions and zypper on SuSE to ensure dependencies are also installed.	313569
Windows 10 and Windows 11 have been added to the <a href="#">Supported Windows Platform</a> list.	314172
AIX vasclnt packages now contain 64 bit sudo modules (libsudo_vas64.so). 64 bit versions of sudo modules were added to use them instead of the default 32 bit modules that use /opt/quest/lib/libsudo_vas64.so path instead of the default /opt/quest/lib/libsudo_vas.so.	317769

## Supported platforms

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

**CAUTION:** In Safeguard Authentication Services version 5.1, support for the following Linux platforms and architectures has been deprecated:

- **Linux platforms**
  - **CentOS Linux 5**
  - **Oracle Enterprise (OEL) Linux 5**
  - **Red Hat Enterprise Linux (RHEL) 5**
  - **Suse Linux Enterprise (SLES) 11**
- **Linux architectures**
  - **IA-64**
  - **s390**

**Make sure that you prepare your system for an upgrade to a supported Linux platform and architecture, so that you can upgrade to Safeguard Authentication Services version 5.1 when it is released.**

**Table 2: Unix agent: Supported platforms**

Platform	Version	Architecture
Alma Linux	8, 9	x86_64, AARCH64, PPC64le
Amazon Linux	AMI, 2, AL2022	x86_64

Platform	Version	Architecture
Apple MacOS	10.15, 11.x, 12.x, 13.x	x86_64, ARM64
CentOS Linux	6, 7, 8, 9	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
CentOS Stream	8, 9	x86_64
Debian	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64
Fedora Linux	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64
FreeBSD	12.x, 13.x	x32, x64
HP-UX	11.31	PA, IA-64
IBM AIX	6.1 TL9, 7.1 TL3, TL4, TL5, 7.2, 7.3	Power 4+
OpenSuSE	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64
Oracle Enterprise Linux (OEL)	6, 7, 8, 9	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
Oracle Solaris	10 8/11 (Update 10), 11.x	SPARC, x64
Red Hat Enterprise Linux (RHEL)	6, 7, 8, 9	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
Rocky Linux	8, 9	x86_64, AARCH64
SuSE Linux Enterprise Server (SLES)/Workstation	12, 15	Current Linux architectures: s390x, PPC64, PPC64le, x86, x86_64, AARCH64
Ubuntu	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64

# System requirements

Before installing Safeguard Authentication Services 5.1, 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. Please consult [One Identity's Product Support Policies](#) for more information on environment virtualization.

## 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. Refer to the *One Identity Safeguard Authentication Services Installation Guide* for detailed installation instructions.

Refer to the *One Identity Safeguard Authentication Services Upgrade Guide* for more detailed information about upgrading your current version of Safeguard Authentication Services.

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*.

## Deprecated features

The following is a list of Windows platforms that are no longer supported:

- Windows Server 2008 R2

The following is a list of Linux platforms that are no longer supported:

- Redhat Enterprise Linux 5 (RHEL5)
- Oracle Enterprise Linux 5 (OEL5)
- CentOS Linux 5
- Suse Linux Enterprise 11 (SLES11)

This release removes support for Starling Two Factor Authentication.

The upgraded Unix clients will ignore Starling related configurations (if any exist). Once the Microsoft Management Console snap-in extensions are updated on Windows, the deprecated Starling settings will not be visible for viewing / editing any more.

Existing group policy configurations can be removed safely through Control Center's settings page.

Additional deprecated features:

- Vascert package is no longer compatible with Java versions older than version 1.8.

# Windows and cloud requirements

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

**Table 3: Authentication Services requirements**

<b>System requirements</b>	
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"><li>• Microsoft .NET Framework 4.5</li></ul> <p>You can install Safeguard Authentication Services on 64-bit editions of the following configurations:</p> <ul style="list-style-type: none"><li>• Windows Server 2012</li><li>• Windows Server 2012 R2</li><li>• Windows Server 2016</li><li>• Windows Server 2019</li><li>• Windows Server 2022</li><li>• Windows 10</li><li>• Windows 11</li></ul> <p><b>NOTE:</b> Due to tightened security, when running Safeguard Authentication Services Control Center on Windows 2008 R2 (or later) 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"><li>• AWS Directory Service for Microsoft Active Directory (also called AWS Managed Microsoft AD)</li><li>• Azure Active Directory Domain Services</li><li>• Google Cloud Platform Managed Service for Microsoft Active Directory</li></ul>

## 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.

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The End

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-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.