

# Safeguard Authentication Services 5.0.7

## Release Notes

**07 June 2022, 14:26**

These release notes provide information about the Safeguard Authentication Services 5.0.7 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 5.0.7 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 5.0

### Ansible support (224151)

Infrastructure Administrators can use Ansible 2.9 or later for the following functions, including generating reports.

- Install, upgrade, and uninstall Safeguard Authentication Services (SAS) software packages and create reports to summarize software deploy status
- Configure and join Safeguard Authentication Services to my AD domain including:
  - Perform preflight checks
  - Modify `vas.conf`
  - Modify `users/groups.allow` and `users/groups.deny`
  - Modify user/group overrides
  - Join/unjoin SAS from domain
  - Create reports to summarize configure/join status

### Authentication Services Ansible Collection

The One Identity Authentication Services Ansible Collection, referred to as `ansible-authentication-services`, consists of roles, modules, plugins, report templates, and sample playbooks to automate software deployment, configuration, Active Directory joining, profiling, and report generation for Safeguard Authentication Services. Go to: <https://github.com/OneIdentity/ansible-authentication-services>.

### Ansible details

For Ansible information consult:

- [GitHub ansible/ansible](#)
- [Ansible Documentation](#) (includes Tower)

**NOTE:** One Identity open source projects are supported through [One Identity GitHub issues](#) and the [One Identity Community](#). This includes all scripts, plugins, SDKs, modules, code snippets or other solutions. For assistance with any One Identity GitHub project, please raise a new Issue on the [One Identity GitHub project](#) page. You may also visit the [One Identity Community](#) to ask questions. Requests for assistance made through official One Identity Support will be referred back to GitHub and the One Identity Community forums where those requests can benefit all users.

### Explicit mapping of users to valid certificates (smart card) (198067)

Mapping certificates to users can be done implicitly or explicitly. Authentication Services supports mapping one cert to one user or mapping multiple certs to one user. Mapping one cert to multiple users is not supported. For details, see the *Smart Cards Administration Guide*, Map certificate to user (implicit and explicit).

### Group policy updates (198055)

Safeguard Authentication Services can apply additional policies to Unix systems:

- mac OS X policies are updated
- Privileged Manager Policies are updated

### License validator (198066)

New licenses have to be added prior to upgrading to version 5.0. If you have a mixed environment with some clients running on 5.0 and some running on an older version, you will need to have both licenses available.

**CAUTION:** If you upgrade Safeguard for Authentication Services before adding the license, the caches will empty and SAS will be unusable. You can add the license then either rejoin or restart vasd and run vastool flush. You can update the Control Center any time without issue.

Windows Administrators can load the Safeguard Authentication Services license into Active Directory.

Unix Administrators must have a current license.

### macOS: Added functionality (198050)

The following functionality was added for macOS platforms. For additional information, see [KB 322901](#).

- Installation is from the One Identity Support page.
- In Application Properties, an Options tab has been added to control App Store and Game Center settings. For example, you can choose to allow software update notifications.
- In Media Access Properties, there are two new settings:
  - Allow AirDrop
  - Allow transfers with Finder or iTunes
- Software Update Properties have been added related to purchasing or installing apps.
- System Preference Properties selection was enhanced.
- Wireless Profile Properties now include the ability to use hidden networks, auto join networks, proxies, protocol configurations, and authentication. This policy also works with vascert to provide a certificate that can be used to join a network.

### Support for unattended join using Windows Offline Domain Join (ODJ) credentials (198057)

An Administrator can use a Windows Offline Domain Join (ODJ) credential instead of a keytab for scripting an unattended installation of Safeguard Authentication Services to enhance security.

There must be connectivity from the Unix machine to domain controllers. When using this method of joining AD, the [domain] is not needed on the vastool join command, nor credentials. That information will come from the file. More information is in the vastool man page.

The join can work in the following ways:

- `vastool join -j <path to the offline join file>`
- `vastool join` and use the ENV option `AUTHENTICATION_SERVICES_DJOIN_FILE` set to the location of a valid djoin file.
- `vastool join` and `/tmp/AUTHENTICATION_SERVICES_DJOIN` file will be used if that file exists, and is a valid djoin file.

For more information, see `vastool` man page and search for djoin.

## Resolved issues

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

**Table 1: General resolved issues in version 5.0.7**

Resolved Issue	Issue ID
<p>vgptool crashed when root <code>su-d</code> to a user without logging in with the user first.</p> <p>vgptool tried to access a non-existing file and crashed when root <code>su-d</code> to a user without logging in with the user first. It has been fixed, <code>vgptool</code> now does not crash even with new users.</p>	304825
<p>vgptool sends new and unnecessary messages to syslog.</p> <p>New and unnecessary <code>vgptool</code> messages have been removed, passwordless login does not always run <code>vgptool</code>.</p>	306094
<p>In workstation mode (optional mode), the new user was not given access on the initial login.</p> <p>After the fix, the new user is granted access on the initial login.</p>	307283
<p>SAS could overwhelm Domain Controllers (DCs) on a normal update of a group.</p> <p>SAS did a Distinguished Name (DN) based update for each cached group that has the same group identity (GID). This was greatly multiplying the queries to Active Directory (AD) on a normal update of a group. After the fix, there is no secondary updates on GID conflicted groups.</p>	307288
<p>On Redhat systems, unconfiguring <code>authselect</code> could fail if there were no active profile during the configuration.</p> <p>On a Redhat system, when <code>authselect</code> had no current profile selected, <code>authselect</code> configuration succeeded, but stored the previous profile wrongly, meaning that <code>authselect</code> unconfigure has failed (for example, during an unjoin process), and the system could not be cleanly restored to its original state.</p>	307955
<p>The <code>vastool status</code> command has to generate better output for <code>authselect</code> failures.</p>	307976

Resolved Issue	Issue ID
The <code>vastool status</code> command now generates better output for <code>authselect</code> failures.	
On recent AIX, DB2 can crash in certain edge cases due to thread safety issues. To prevent crashing, AIX LAM code has been modified.	307979
On AIX, <code>vasd</code> crashed when a group name contained parentheses and the group name was listed in the <code>users.allow</code> file. After the fix, parentheses in group names no longer cause problems.	309631

## 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 will be deprecated:

- **Linux platforms**
  - **CentOS Linux 5**
  - **Oracle Enterprise (OEL) Linux 5**
  - **Red Hat Enterprise Linux (RHEL) 5**
- **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	x86_64, AARCH64, PPC64le
Amazon Linux	AMI, 2	x86_64
Apple MacOS	10.14 or later	x86_64, ARM64
CentOS Linux	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64,

Platform	Version	Architecture
		AARCH64
CentOS Stream	8	x86_64,
Debian	Current supported releases	x86_64, x86, AARCH64
Fedora Linux	Current supported releases	x86_64, x86, AARCH64
FreeBSD	10.x, 11.x, 12.x	x32, x64
HP-UX	11.31	PA, IA-64
IBM AIX	6.1, 7.1, 7.2	Power 4+
OpenSUSE	Current supported releases	x86_64, x86, AARCH64
Oracle Enterprise Linux (OEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64, AARCH64
Oracle Solaris	10 8/11 (Update 10), 11.x	SPARC, x64
Red Hat Enterprise Linux (RHEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64, AARCH64
Rocky Linux	8	x86_64, AARCH64
SuSE Linux Enterprise Server (SLES)/Workstation	11, 12, 15	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64, AARCH64
Ubuntu	Current supported releases	x86_64, x86, AARCH64

## System requirements

Before installing Safeguard Authentication Services 5.0.7, 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.

**NOTE:** In order to use Starling Two-Factor Authentication with Safeguard Authentication Services, you must have a valid license for Authentication Services with One Identity Hybrid Subscription included.

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*.

## 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 2008 R2</li><li>• Windows Server 2012</li><li>• Windows Server 2012 R2</li><li>• Windows Server 2016</li><li>• Windows Server 2019</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	<ul style="list-style-type: none"><li>• AWS Directory Service for Microsoft Active Directory (also called AWS</li></ul>

## System requirements

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cloud services

- 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>.

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- 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 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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bcrypt 4.1	Creative Commons Zero (CC0) 1
Boost 1.34	Boost 1.0
Boost 1.48	Boost 1.0
Boost 1.50	Boost 1.0
Boost 1.53	Boost 1.0
Boost 1.54	Boost 1.0
Boost 1.66	Boost 1.0
Boost 1.67	Boost 1.0
Boost 1.71	Boost 1.0
Boost 1.76	Boost 1.0
Codejock Property Grid 11.22	Codejock Property Grid 11.22
Heimdal Krb/GSSapi 1.2	Heimdal Krb/GSSapi 1.2

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Jansson 2.12	MIT N/A
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SQLite 3.6.23	SQLite 3.6.1
WTL 9.1	Microsoft Public License (Ms-PL) 1.0 - October 12, 2006
XTreme Toolkit Pro 18.4.0	XTreme Toolkit Pro 10.1.1

### **XTreme Toolkit Pro 10.1.1**

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The Artistic License

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