

# One Identity Authentication Services 4.2.3

## Release Notes

### August 2020

These release notes provide information about the One Identity Authentication Services 4.2.3 release.

## About this release

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.

Authentication Services 4.2.3 is a minor release that includes:

- SMB 3.1.1 support
- Explicit mapping of users to valid certificates (smart card) (198067)

**⚠ CAUTION:** You must upgrade all Windows components on all Windows systems to Authentication Services 4.2.1 or higher before modifying the QAC (Quest Authentication Configuration) in Active Directory using Control Center from QAS 4.2.0 or higher. For more information, please see the [KB Article 314330](#). This is related to issue 198991 (TFS 800254) that was resolved in QAS 4.2.1 and is identified in this release in [Known issues](#).

## New features

New features in Authentication Services 4.2.3:

- **SMB 3.1.1 support**  
The user can use Wireshark / tcpdump to verify that Authentication Services is operating with the highest level of security possible for an SMB connection.
- **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.

See also:

- [Resolved issues](#) on page 2

## Resolved issues

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

**Table 1: General resolved issues**

Resolved Issue	DevOps Issue ID	TFS Issue ID
vgp: Added support for SMB 3.1.1. Increase the default smb-dialect-range from 1-2.0.2 to 1-3.1.1.	198127	804169
scripts: Added /etc/default/passwd to the snapshot script.	198153	806797
vastool: The join -c option will now auto-expand. For example: /opt/quest/bin/vastool ... join ... -c ou=Unix,ou=Servers ... <domain> ... is valid and will auto-fill in the joining domain's dn.	198163	806308
vgp: Fixed an issue with using SMB3 with the new heimdal library.	198166	804186
nss: Now, on initgroups_dyn calls, if it times out, try again.	198257	765022
docs: Clarified how the netgroup-mode setting works.	198298	738488
docs: Now mentions in man page that workstation-mode-users-preload needs an fqdn for cross forest domains.	198619	647672
api: Added gss_localname() to the exported symbols in libvas-gssapi.*.	198706	609864
vasd: Finished removal of groups-for-user-update-all-sids setting.	198845	308257
status: Added a test for the owner of /var/opt/quest/vas/vasd.	199524	794632
scripts: If deleted_check.sh is killed due to exceeding delusercheck-timeout, tmp files are cleaned up.	199534	799456

<b>Resolved Issue</b>	<b>DevOps Issue ID</b>	<b>TFS Issue ID</b>
docs: Added reference to the ability to override a user's primary gid to user-override.sample.	199543	804383
vastool: If joining with delegated account permissions, the join is considered a success with notes, instead of a failure.	199552	806311
vastool: During join, msDS-SupportedEncryptionTypes is now set to 524319 to suppress cross forest sid compression for mixed forest levels.	199553	806313
status: Now, the system ignores test 402 if the UPN is empty, which is common for a delegated join.	199554	806318
vastool: Added better error message when running a flush without a valid license.	199555	806309
krb5: Fixed server referrals. This fixes joining 3+ domains away and cross forest logins.	199546, 199550	802683, 804855
smartcard: Added support for altSecurityIdentites mapping.	199717	806345
status: Added test for sshd_config DenyUsers AllowUsers DenyGroups AllowGroups settings.	199844	727882
vgp: Fixed segfault on HP-UX IA when using SMB 3+.	200925	none
nss: Fixed a segfault on Solaris under heavy usage with nscd.	200926	none
vastool: When override processing fails due to un-resolveable entries, a better message is returned.	215637	none
package: On freebsd, removed generated man files on uninstall.	218807	none
vasd: Finished removal of enable-nonroot-disconnected-cache setting.	218812	none
package: Added asn1 and gssapi _sym.h files to the vas-dev package.	218814	none
smartcard: Fixed the smart card authentication on RH 7.7 with SELinux enabled.	220524	none
vasd: Added better query for removing old srvinfo entries.	220988	none
smartcard: Fixed subsequent login issues on Redhat 7.7.	220995	none
vasd: When using UPN for username, and user-full-upn, fixed an issue logging in with simple name in certain configurations.	221192	none
vasd: Increased dispatcher's buffer size to better handle heavy auth systems.	221828	none

# 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 2: Known issues**

Known Issue	Dev Ops Issue ID	TFS Issue ID
You must upgrade all Windows components on all Windows systems to Authentication Services 4.2.1 or higher before modifying the QAC (Quest Authentication Configuration) in Active Directory using Control Center from QAS 4.2.0 or higher. For more information, please see the <a href="#">KB Article 314330</a> .	198991 (corrected in QAS 4.2.1)	800254

# Supported platforms

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

**Table 3: Unix agent: Supported platforms**

Platform	Version	Architecture
Amazon Linux AMI		x86_64
Apple macOS	10.12, 10.13, 10.14, 10.15	x86_64
CentOS Linux	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, x86, x86_64, AARCH64
Debian	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64
Fedora Linux	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64
FreeBSD	10.x, 11.x	x32, x64
HP-UX	11.31	PA, IA-64
IBM AIX	7.1, 7.2	Power 4+
OpenSuSE	<a href="#">Current supported</a>	x86_64, x86, AARCH64

Platform	Version	Architecture
	<a href="#">releases</a>	
Oracle Enterprise Linux (OEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, 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, ia64, x86, x86_64, AARCH64
SuSE Linux Enterprise Server (SLES)/Workstation	11, 12, 15	Current Linux architectures: s390, s390x, PPC64, PPC64le, ia64, x86, x86_64, AARCH64
Ubuntu	<a href="#">Current supported releases</a>	x86_64, x86, AARCH64

## System requirements

Before installing Authentication Services 4.2.3, 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 Authentication Services Administration Guide*.

Use of RCF 2307 attributes in the user object and for storage of NIS maps requires the installation of the Microsoft Windows Server 2003 R2 schema.

**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.

## Windows and cloud requirements

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

**Table 4: Authentication Services requirements**

**System requirements**

Supported Windows Platforms	<p>Prerequisite Windows software</p> <p>If the following prerequisite is missing, the 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 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 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 Authentication Services Windows components on Active Directory domain controllers. The recommended configuration is to install the 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>

## Product licensing

Authentication Services must be licensed in order for Active Directory users to authenticate on Unix and (missing or bad snippet) hosts.

**NOTE:** While you can install and configure Authentication Services on (missing or bad snippet) and use the included management tools to Unix-enable users and groups in Active Directory without installing a license, you must have a valid Authentication Services license installed for full functionality.

**NOTE:** In order to use Starling Two-Factor Authentication with 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.

## **Upgrade and installation instructions**

The process for upgrading the 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, Authentication Services uses the updated Windows components. Refer to the *One Identity Authentication Services Installation Guide* for detailed installation instructions.

Authentication Services allows you to perform all of your Unix identity management tasks from the Authentication ServicesControl Center. Refer to the *One Identity Authentication Services Upgrade Guide* for more detailed information about upgrading your current version of Authentication Services using the Authentication ServicesControl Center.

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 Authentication Services Administration Guide*.

## **More resources**

Additional information is available from the following:

- Online product documentation: <https://support.oneidentity.com/authentication-services/technical-documents>
- One Identity | Unix Access Management: <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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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](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/third-party-licenses.aspx>. Source code for components marked with an asterisk (\*) is available at <http://opensource.quest.com>.

**Table 5: List of Third-Party Contributions**

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json-lib 2.1	JSON license <a href="http://www.json.org/license.html">http://www.json.org/license.html</a> This component is governed by Artistic License 1.0
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