

One Identity Authentication Services 4.1.6

Release Notes

June 2018

These release notes provide information about the One Identity Authentication Services 4.1.6 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 4.1.6 is a minor release. Support for Active Roles 7.3 was added and various defects have been resolved in this quarterly maintenance release.

New features

Authentication Services, the solution that pioneered the "Active Directory Bridge" market continues to lead the way with powerful and innovative new capabilities that make heterogeneous identity and access management even more efficient, secure, and compliant.

Authentication Services 4.1 features include:

- **Upgrade Without Reboot:** Authentication Services adds the functionality required so that future upgrades will no longer require a system reboot when upgrading as a

local user. Some customer deployments of Authentication Services have been running on old versions for long periods of time because of the difficulties of scheduling sever down time. With Authentication Services 4.1 deployed as the foundation, future releases, under some circumstances, will allow you to deploy upgrades without impacting running services or rebooting.

NOTE: Because of changes Apple makes to their operating system with new macOS releases, this is not always possible especially when upgrading as a mobile account.

- **IPv6 Support:** Authentication Services now supports hosts running full IPv6 environments. Authentication Services automatically uses IPv6 when it is available; it uses IPv4 when IPv6 is not available or is significantly slower than IPv4. IPv6 is available in Authentication Services on most recent operating systems, but is operating system dependent. Run `vastool info ipv6` to determine whether IPv6 is available on each client. Authentication Services operates in IPv4-only, IPv6-only or dual-stack environments; no special configuration is required. Active Directory servers must be running Windows 2008 or later for IPv6 communication.

Authentication Services uses IPv6 when the operating system's DNS resolver correctly supports mapping of IPv4 addresses to IPv6 addresses. If a problem with address mapping is detected, Authentication Services operates in IPv4-only mode, even if an IPv6 address is assigned and other applications use IPv6.

- **Customizable Windows Components Installer:** The Windows installer now allows you to install individual components. The granule install includes: core components, ADUC components, Group Policy Extensions, Documentation, and the Control Center. For example, you can install an individual MMC snap-in without installing the entire Control Center application. These components are also available as MSI packages for automated and configurable installation.

- **Group Policy Updates:**

- Ability to specify "merge" or "replace" several local file settings in the GPO. For example, you can configure `users.allow` to be delivered to every system with the contents overwriting any changes made to the local copy of `users.allow`.
- A new preference manifest setting for MAC Group Policy called Apple Network Browser that allows you to deactivate AirDrop.

NOTE: When upgrading Authentication Services, you must manually add this new preference manifest. Refer to the "Preference Manifest Settings" topic in the *One Identity Authentication Services Mac OS X/macOS Administration Guide* for the procedure "To add a Preference Manifest".

- Ability to distribute trusted certificates through Group Policy.
- **Group Policy for Certificate Autoenrollment:** Authentication Services Certificate Autoenrollment provides a quick and simple way to issue and renew certificates for Mac OS X, UNIX and Linux users and systems from Windows 2008 R2 Certificate Enrollment Services. In this release you can configure Certificate Autoenrollment with Group Policy. Certificate Autoenrollment includes the ability to:

- Automatically enroll x509 Certificates based on Microsoft Certificate Enrollment Policy.
- Renew certificates that are close to expiration according to policy.
- Automatically install newly enrolled certificates into the appropriate system or user keychain.
- Support both user and machine certificate policy.

NOTE: In previous releases, Certificate Autoenrollment 1.0 was provided as an add-on and was only available for Mac OS X. Beginning with Authentication Services version 4.1.2, Certificate Autoenrollment 1.1 is included as a standard installable component, `vascert`, available for Mac OS X, UNIX and Linux.

• **Management Console for Unix 2.5 Updates:**

- Ability to manage Privilege Manager for Unix.
- Ability to manage access control on a single host system.
- Ability to add and remove Active Directory users or groups across multiple hosts.
- Ability to rejoin hosts to Active Directory.
- Ability to reset or change passwords for multiple local accounts across multiple hosts.

See also:

- [Resolved issues](#)

Resolved issues

The following is a list of issues addressed in Authentication Services 4.1.6.

Table 1: api: resolved issue

Resolved Issue	Issue ID
New option, <code>[libvas] force-ipv</code> , can be set to 4 or 6. Forces Authentication Services to use the given protocol.	766954

NOTE: Should only be used for troubleshooting.

Table 2: ars: resolved issues

Resolved Issue	Issue ID
Fix issue when using Active Roles 7.2 with Authentication Services.	449397
Add support for Active Roles 7.3.	

Table 3: auth: resolved issue

Resolved Issue	Issue ID
Fix issue when using AES, users with expired accounts/password are denied login.	758700

Table 4: build: resolved issues

Resolved Issue	Issue ID
Initial work for adding FreeBSD.	
Remove OSX 10.7 package.	
Increment to 4.1.6 for maintenance release.	

Table 5: doc: resolved issues

Resolved Issue	Issue ID
Stop building PDFs that are not included in the final package.	681694
Reference the correct vas.conf in the pam_vas man page.	761505
Mention that uid-check-limit might fail above 21483647 on some OS's.	759447

Table 6: dnsupdate: resolved issue

Resolved Issue	Issue ID
ipmon has been changed to ipmond to fix interference with existing process.	

Table 7: krb5: resolved issue

Resolved Issue	Issue ID
Handle making an AES keytab entry when default_etypes is RC4.	774650

Table 8: lam: resolved issue

Resolved Issue	Issue ID
New vas.conf option, [aix_vas] ext-attrs-window. For heavy authentication systems, keeps disk usage lower during a lot of simultaneous authentications at the expense of login location for subsequent calls, like host_last_login.	772980

Table 9: mcc: resolved issue

Resolved Issue	Issue ID
Fix issue r-clicking for running the NIS Map Editor on a specific OU/CN.	772009

Table 10: nss/pam: resolved issues

Resolved Issue	Issue ID
nss: Fix debug output to be more consistent.	698858
nss/pam: Move all select() calls to poll() calls for anything nss/pam uses. This should mitigate possible segfaults from programs calling into Authentication Services with more than 1024 file descriptors open.	758694
nss: Initial support work for Solaris 11.4	763127
pam: Initial support work for Solaris 11.4	764742
pas_vas: Make sure the Authentication message has a reason when a passwordless login fails due to being locked out.	480347

Table 11: osx: resolved issue


Resolved Issue	Issue ID
Fix an issue where the system would freeze for a minute after a vastool flush.	735997

Table 12: package: resolved issues

Resolved Issue	Issue ID
Always clean up generated upstart files.	480347
Do not configure upstart on systems that do not have /lib/init/upstart-job.	774615
On uninstall, make sure to remove vgp.conf.	
Fix an issue building vgp on AIX due to rebranding.	
Increment to 4.1.6 for maintenance release.	

Table 13: scripts: resolved issues

Resolved Issue	Issue ID
Add system krb5 configuration to vas_snapshot.sh.	677954
	677955
In deleted_check.sh, use domain\sam instead of userprincipalname.	680330
Fix an issue in vas_status.sh on OSX about NSS library paths.	758965
install.sh: Fix a temporary world writable file during install on Solaris.	677956
init script: Look for being in an LPAR on AIX 7 as well as 6.	615447
install.sh: Support aarch64's package.	758695

 **NOTE:** This is not support for the OS.

Resolved Issue	Issue ID
init script: Fix restart of ipmond on HP/OSX.	454442

Table 14: snapshot: resolved issue

Resolved Issue	Issue ID
Add rootDSE query to the snapshot.	647684

Table 15: status: resolved issues

Resolved Issue	Issue ID
Warn when try_disauth_first is still set.	713222
Fix processing files in access.d with spaces in their names.	733918
Fixes for Solaris 11.4	772713
Test 502: Ignore cifs/ entries, they do not have to match Active Directory.	698858
Test 608: If password is not configured, just return INFO.	733917
Test 112: Ignore [plugins] section.	754303
Test 720: Better match the vasd socket file.	737526
Add new setting to vastool status.	772980

Table 16: vasd: resolved issues

Resolved Issue	Issue ID
vasd now runs after a fork when staring children.	755070
Add a lock file so on non-Linux systems vasd dispatcher dying should not vastly slow down the system.	769230
Fix an authentication issue with sshd_config PermitEmptyPasswords enabled preventing logins until a user checkaccess is ran.	770132
Auth daemon might not detect parent(dispatcher) death if it had not processed anything.	770133
Randomize the delusercheck-interval like lazy-cache-update, 1x - 2x of the configured value to keep systems started at the same time when hitting Active Directory for the query at the same time.	744285
If vasd is started in an unjoined state, do not ignore srvinf requests. This should allow setups that do not join, like SAP, to continue to work.	715651

Table 17: vastool: resolved issues

Resolved Issue	Issue ID
Fix failure to find servers trying to timesync when out of timesync.	700864
Fix an issue on some OS's when uid-check-limit was over 2147483648.	759447
During configure sudo, check for version 1.8.15+, and add always_query_group_plugin.	747413
New option, vastool (un)configure selinux. Run after join to install selinux policy for Authentication Services.	770196
Honor site-only-servers for vastool info toconf.	673358
Fix issues around AES salting when making a keytab during a password change.	758856 773829
When creating a cross-domain/forest keytab for a service, use the correct salt for AES keys.	760991
If a value ends in a space, do not base64 encode the results. RFC 2849 suggests to do so, but Active Directory does not appear to.	761636
Fix an issue with setting a user's password with a keytab.	424350
When making an account or re-setting the account's password, handle unexpected keytab failures.	774915
During info toconf, with site-only-servers set to true, better handle any domains with no in-site servers.	775260
Fix an issue running vastool ktuil on Fedora 27+.	773170

Table 18: vasydpd: resolved issue

Resolved Issue	Issue ID
Additional fixes for 747035 to stop a vasydpd hang using netgroups.	747037

Table 19: vgp: resolved issue

Resolved Issue	Issue ID
Fix issue with parsing visudo -c output.	766944

Table 20: vgptool: resolved issue

Resolved Issue	Issue ID
Fix leaving temp files around if the file being modified was marked immutable.	647676

Table 21: General: resolved issues

Resolved Issue	Issue ID
Updated branding.	762778
Coverity fixes.	

Known issues

The following is a list of issues known to exist at the time of release.

Table 22: Change Auditor integration known issues

Known Issue	Issue ID
After installing Authentication Services 4.1.0, the machine must be rebooted for Change Auditor to log "QAS GPO Setting Changed" events.	28008

System requirements

Before installing Authentication Services 4.1.6, 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.

Product licensing

This product does not require licensing for the evaluation of features. However, Management Console for Unix will notify you if you have not installed a valid license key.

To activate a purchased commercial license

1. Launch and log into Management Console for Unix.
2. Go into **System Settings**.
3. Click **Authentication Services**
4. Click the **Import** button.
5. Browse for the license file and click **OK**.

Upgrade and installation instructions

The process for upgrading the Authentication Services Windows components from older versions to version 4.1.6 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 Services Control Center. Please refer to the *One Identity Authentication Services Upgrade Guide* for more detailed information about upgrading your current version of Authentication Services using the Authentication Services Control 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 | Privileged Account Management: <https://www.quest.com/community/products/one-identity/f/privileged-account-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.

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For sales or other inquiries, visit <https://www.oneidentity.com/company/contact-us.aspx> or call +1-800-306-9329.

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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:

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- Download software and technical documentation
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- 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>.

Table 23: List of Third-Party Contributions

Component	License or Acknowledgement
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Apache Commons Codec 1.4	Apache License Version 2.0, January 2004 http://www.apache.org/licenses/
Apache Commons IO 2.0	Apache License Version 2.0, January 2004 http://www.apache.org/licenses/
Apache Commons Lang 2.5	Apache License Version 2.0, January 2004 http://www.apache.org/licenses/
Bouncy Castle 145	Bouncy Castle 1.5 License Copyright (c) 2000 - 2011 The Legion Of The Bouncy Castle (http://www.bouncycastle.org)
Joda Time 1.6.2	Apache License Version 2.0, January 2004 http://www.apache.org/licenses/
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zt-exec 1.9	Apache License Version 2.0, January 2004 http://www.apache.org/licenses/

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