One Identity Authentication Services 4.1.5

Release Notes

January 2018

These release notes provide information about the One Identity Authentication Services 4.1.5 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 4.1.5 is a minor release. Various defects have been resolved and updated 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 server 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 4.1.5.

### Table 1: package: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add support for OSX 10.13.</td>
<td></td>
</tr>
<tr>
<td>Re-work systemd support.</td>
<td>692831</td>
</tr>
<tr>
<td></td>
<td>492563</td>
</tr>
<tr>
<td>Copy systemd service file over, instead of linking it.</td>
<td>735010</td>
</tr>
</tbody>
</table>

### Table 2: vasd: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full buffer timeout now scales with vascache-ipc-timeout. This provides</td>
<td>724526</td>
</tr>
</tbody>
</table>
### Resolved Issue

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Resolved Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>727833</td>
<td>Provide better handling of password changes through the DS plugin on OSX.</td>
</tr>
<tr>
<td>737912</td>
<td>During the ipc connect, handle possible signal interruption.</td>
</tr>
<tr>
<td>727683</td>
<td>During Native AC processing, fixed a potential status 224/225 error.</td>
</tr>
<tr>
<td>737912</td>
<td>Fixed handling of possible EINTR response.</td>
</tr>
<tr>
<td>754277</td>
<td>Fixed an issue with mapped non-Unix user changing their password, introduced by Issue ID 730816 changes.</td>
</tr>
</tbody>
</table>

### Table 3: vastool: resolved issues

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Resolved Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>729789</td>
<td>Change order of operations during DS configuration.</td>
</tr>
<tr>
<td>733966</td>
<td>Change restart and configuration order during DS configuration.</td>
</tr>
<tr>
<td>733967</td>
<td>Restart odmodule in the correct order depending on OS version.</td>
</tr>
</tbody>
</table>

### Table 4: osx: resolved issues

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Resolved Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>726969</td>
<td>Fix a potential segfault in DS plugin.</td>
</tr>
<tr>
<td>734097</td>
<td>Potential fix for DS plugin crash.</td>
</tr>
<tr>
<td>752224</td>
<td>On 10.13.2+, send messages to /var/log/vasd instead of syslog. This should stop vasd hanging on calling syslog. Any messages from vasd, from default to [vasd] debug-level=*, now go to this file.</td>
</tr>
</tbody>
</table>

**NOTE:** If you are using Authentication Services on 10.13.2+, upgrade to this version or later.

### Table 5: auth: resolved issues

<table>
<thead>
<tr>
<th>Issue ID</th>
<th>Resolved Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>730816</td>
<td>During a password login, cache the user's pwdLastSet from their PAC. This prevents the user from being asked to change their password when vasd can not read the correct pwdLastSet value from Active Directory. Set pwdLastSet when expired.</td>
</tr>
</tbody>
</table>
Table 6: api: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>In vas_ipc_connect, move from select() to poll().</td>
<td>740839</td>
</tr>
</tbody>
</table>

Table 7: status: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 719; fix false positive in global zone.</td>
<td>615449</td>
</tr>
<tr>
<td>Add test 724; detect if not in a site.</td>
<td>597853</td>
</tr>
<tr>
<td>Test 225; return WARNING if no actual Native AC set.</td>
<td>727684</td>
</tr>
<tr>
<td>Test 225; change the output to better explain the issue.</td>
<td></td>
</tr>
<tr>
<td>Test 112; add latest MIT libdefaults settings.</td>
<td>641373</td>
</tr>
<tr>
<td>Add text 725; verify computerFQDN has a full name.</td>
<td>752251</td>
</tr>
</tbody>
</table>

Table 8: krb5: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fix truncating long port number used for getaddrinfo.</td>
<td>751187</td>
</tr>
</tbody>
</table>

Table 9: vaspd: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fix a potential vaspd hang when providing netgroups and services map.</td>
<td>747035</td>
</tr>
</tbody>
</table>

Table 10: ldapsearch: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add disabling of paged results by setting pr=-1. This allows -f to work for</td>
<td>752215</td>
</tr>
<tr>
<td>multiple requests.</td>
<td></td>
</tr>
</tbody>
</table>

Table 11: docs: resolved issues

<table>
<thead>
<tr>
<th>Resolved Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removed ReleaseNotes.pdf from the build; all documentation will be kept</td>
<td></td>
</tr>
<tr>
<td>online, available at: [<a href="https://support.oneidentity.com/authentication-">https://support.oneidentity.com/authentication-</a></td>
<td></td>
</tr>
<tr>
<td>services/technical-documents](<a href="https://support.oneidentity.com/authentication-">https://support.oneidentity.com/authentication-</a></td>
<td></td>
</tr>
<tr>
<td>services/technical-documents)</td>
<td></td>
</tr>
</tbody>
</table>

Known issues

The following is a list of issues known to exist at the time of release.
Table 12: Change Auditor integration known issues

<table>
<thead>
<tr>
<th>Known Issue</th>
<th>Issue ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>After installing Authentication Services 4.1.0, the machine must be</td>
<td>28008</td>
</tr>
<tr>
<td>rebooted for Change Auditor to log &quot;QAS GPO Setting Changed&quot; events.</td>
<td></td>
</tr>
</tbody>
</table>

System requirements

Before installing Authentication Services 4.1.5, 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, then the Import button.
4. 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 4.1.5 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](https://support.oneidentity.com/authentication-services/technical-documents)

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 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
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product
# Third-party contributions


<table>
<thead>
<tr>
<th>Component</th>
<th>License or Acknowledgement</th>
</tr>
</thead>
</table>
| Apache Commons CLI 1.2 | Apache License  
Version 2.0, January 2004  
http://www.apache.org/licenses/ |
| 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/ |
| slf4j - Simple Logging Facade for Java 1.7 | slf4j license N/A  
Copyright (c) 2004-2008 QOS.ch All rights reserved. |
| zt-exec 1.9 | Apache License  
Version 2.0, January 2004  
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