

# One Identity Password Manager 5.13.0

## Release Notes

Thursday, October 5, 2023

These release notes provide information about the new features, enhancements, known or resolved issues, and other changes of One Identity Password Manager 5.13.0. This document describes the changes of both the regular and the Active Directory Lightweight Directory Services (AD LDS) edition of the software.

For the most recent documents and product information, and for the release notes and documentation of earlier product releases, see the [online Password Manager technical documentation](#) on the One Identity Support Portal.

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## About One Identity Password Manager 5.13.0

One Identity Password Manager 5.13.0 is a patch release with resolved issues.

- For the list of resolved issues, see [Resolved issues](#).
- For the list of known issues, see [Known issues](#).

# New features

**CAUTION:** Password Manager does not provide feature parity between the legacy PMUser and new PMSelfService sites for self-service related activities. All new feature developments are only done for the new PMSelfService site.

Password Manager 5.13.0 contains the following new features:

- **Authenticate with Q&A Profile (User-selected questions):** A new activity for authentication, **Authenticate with Q&A Profile (User-selected questions)** has been added. During authentication, from the available set of questions from their Q&A profile, users can select the questions they wish to answer. Administrators can configure the type and number of questions that are available to answer.
- **FIDO2 can be used for 2FA authentication:** The FIDO2 authentication method can now be used as a two-factor authentication (2FA) method in Secure Token Server features. Users can pair a FIDO2 key to their profile during the first authentication with this method.
- **Custom phone number mask can be defined:** Administrators can define a phone number masking rule with a regular expression, which will be applied on PMSelfService site phone numbers, where masking is required.
- **Added internal feedback option:** A feedback link and label can be defined for PMAAdmin, PMHelpdesk and PMSelfService sites. The feedback to One Identity on PMSelfService feature is removed and moved to PMAAdmin site.
- **Admins can associate hostnames for Secure Token Server with IPv4 ranges:** The IP range-based hostname resolution feature allows administrators to define specific IPv4 ranges using IP addresses and subnet masks, and associate hostnames with these ranges, when using Secure Token Server features.

# Enhancements

This section lists enhancements implemented in One Identity Password Manager 5.13.0.

**Table 1: Enhancements**

Enhancement	Issue ID
Password Manager Secure Token Server (STS) configuration has been reworked and updated. Administrators can now configure STS settings easily and access frequently used settings quicker.	319035
Password Manager Administrative Template Configuration tool now enables the <b>Path to Policy Definitions</b> target location to be redefined when needed.	410495

Enhancement	Issue ID
The Angular version used on the PMSelfService site has been updated.	407892
The <b>Authenticate via Passcode</b> activity in <b>Authentication Methods</b> is extended with the following option: <b>User can generate passcode</b> . When enabled, users are not required to have a helpdesk-issued passcode, they can request a code to their registered personal email address or phone number.	415849
Previously, the PMAdmin and PMHelpdesk sites logged out users after 10 minutes regardless of user interactions. This issue has been fixed by using a sliding expiration for sessions to prevent unintentional logouts. Interacting with the sites extend the timer by 5 minutes.	419913
In the <b>Invite Users to Create/Update Profiles</b> user enforcement rule, a new condition has been added to <b>Notify users who meet the following condition</b> . The administrator can specify days for the <b>User's Q&amp;A profile is older than the specified value</b> setting. When the <b>Invitation to Create/Update Profile</b> scheduled task runs, users who have updated their Q&A profile earlier than the specified days in this setting will be notified.	410328

## Resolved issues

This section lists issues addressed in One Identity Password Manager 5.13.0.

**Table 2: Resolved issues – General Password Manager Issues**

Resolved issue	Issue ID
Internet Explorer dependencies and restrictions have been removed from the product.	278249
Printing function is disabled in <b>Secure Password Extension</b> browser window. PMSelfService help icon is hidden when the URL is configured to be empty.	425262

**Table 3: Resolved issues – Password Manager Self-Service site**

Resolved issue	Issue ID
The AD LDS version of PMSelfService is now able to log it's actions and errors according to the configuration on PMAdmin.	413037
<b>Authenticate with external provider</b> , when configured to use pop-up login style, will now correctly detect successful authentication and will forward the workflow to the next activity.	416350

Resolved issue	Issue ID
Previously, PMSelfService did not provide troubleshooting information when <b>Troubleshooting</b> was enabled on PMAAdmin. Now troubleshooting information is present and analyzing custom activities is easier.	307341
Previously, users could not enter the PMSelfService site when they had a / (forward slash) character in the cn attribute. This character in the cn attribute no longer blocks entry to the PMSelfService site.	412456

**Table 4: Resolved issues – Password Manager Administration Site**

Resolved issue	Issue ID
Some vulnerabilities revealed by a previous penetration test have been fixed.	308651
On the admin site, <b>Reset password in connected systems through embedded connectors</b> activity was unable to load its settings. Admins are now able to edit the settings of this activity.	420963
In <b>Password Policies &gt; Policy Rules &gt; User Properties Rule &gt; Password must not contain &gt; x beginning characters of a user property value</b> . The default value of 0 was saved regardless of the entered value. The entered value is now saved correctly.	308651

**Table 5: Resolved issues – Password Manager Helpdesk Site**

Resolved issue	Issue ID
PMHelpdesk password change and reset password method disallowed special characters. This is corrected and special characters are allowed in password inputs.	407735

## Known issues

The following is a list of issues, including those attributed to third-party products, that are known to exist at the time of the One Identity Password Manager 5.13.0 release.

**Table 6: Known issues**

Known issue	Issue ID
When User Principal Name (UPN) is used as service account, installing a Password Manager hotfix can lock the service account.	255614

### Workaround

To solve the problem:

Known issue	Issue ID
<ol style="list-style-type: none"> <li>1. Change the service account to the domainname\username format.</li> <li>2. Provide a password for the same service account user.</li> <li>3. Install the Password Manager hotfix.</li> </ol>	
<p>Following a Password Manager upgrade, the <b>General &gt; Settings &gt; Scheduled Tasks &gt; Active Directory Sites</b> task is disabled.</p>	246147
<p><b>Workaround</b></p>	
<p>After upgrading Password Manager to a newer version, enable the <b>Active Directory Sites</b> task manually.</p>	
<p>When scheduled from the secondary instance of the Password Manager server, the <b>General Settings &gt; Unregister Users</b> task does not run.</p>	233679
<p><b>Workaround</b></p>	
<p>Schedule the <b>Unregister Users</b> task on the primary instance of Password Manager.</p>	
<p>If the application pool identity is a domain user with minimal permissions, then <b>Web interface customization</b> changes are not applied to the Self-Service and Helpdesk Sites.</p>	233658
<p>In the <b>General Settings &gt; Instance Reinitialization</b> page, the <b>Corporate phone</b> attribute is not imported from the primary instance to the secondary instance.</p>	229200
<p><b>Workaround</b></p>	
<p>Update the <b>Corporate phone</b> attribute manually on the secondary instance to have the same value as on the primary Password Manager instance.</p>	
<p>If the Password Manager Self-Service Site contains an IPv6 address, the location-sensitive authentication (LSA) feature does not work.</p>	221571
<p><b>Workaround</b></p>	
<p>LSA currently supports IPv4 addresses only. Therefore, do not access the Password Manager Self-Service Site from an external network where the request contains an IPV6 address.</p>	
<p>When configuring a dictionary rule in the Password Manager Administration Site, the <b>Policy Rules &gt; Dictionary Rule &gt; Enable dictionary lookup to reject passwords that contain &gt; Beginning characters of a dictionary word</b> setting does not work correctly if you specify only 2 beginning characters.</p>	221468
<p><b>Workaround</b></p>	
<p>One Identity recommends using the <b>A complete word from the dictionary (QPMDictionary.txt)</b> setting when configuring a dictionary</p>	

Known issue	Issue ID
rule.	
<p>If no appropriate authentication methods are configured for it, the <b>Forgot My Password</b> screen may appear blank in the Password Manager Self-Service Site or Helpdesk Site.</p> <p><b>Workaround</b></p> <p>In the Password Manager Administration Site, One Identity recommends configuring the <b>Register</b> workflow with <b>Security Questions</b> as one of its registration modes.</p>	221389
<p>When a symmetry rule is configured with the <b>Policy Rules &gt; Symmetry Rule</b> setting of the Password Manager Administration Site, it may fail to validate passwords containing non-consecutive characters.</p> <p><b>Workaround</b></p> <p>Do not use the <b>Policy Rules &gt; Symmetry Rule &gt; Maximum number of consecutive characters within a password, that read the same in both directions (pass4554word)</b> setting.</p>	220177
<p>In a Password Manager for AD LDS environment, if the User Scope is configured with an AD LDS account, the <b>Forgot My Password</b> and <b>Manage My Passwords</b> workflows will fail.</p> <p><b>Workaround</b></p> <p>When configuring a User Scope, do not use <b>The following AD LDS account</b> setting of the <b>Access account &gt; Edit AD LDS Instance Connection</b> dialog.</p>	220171
<p>When a Questions and Answers Policy is updated with any language other than English, users may receive both the default and the custom email notifications on the Password Manager Self-Service Site.</p> <p><b>Workaround</b></p> <p>For the <b>Email user if workflow succeeds</b> workflow, change the value of the <b>Select email template to use</b> setting to <b>Customize</b>.</p>	219401
<p>Upgrading Password Manager from version 5.6.3 to 5.9.x keeps the previous <b>My Questions and Answers</b> profile workflow.</p> <p><b>Workaround</b></p> <p>To solve the problem:</p> <ol style="list-style-type: none"> <li>1. In the Password Manager Administration Site, navigate to the <b>My Questions and Answers</b> profile workflow.</li> <li>2. Open <b>Workflow Settings &gt; Availability</b>.</li> <li>3. Set <b>Enable the workflow</b> to <b>Never</b>.</li> <li>4. Select <b>Show the workflow on the Self-Service site</b>.</li> </ol>	215892

Known issue	Issue ID
5. To apply your changes, click <b>OK</b> .	
The <b>User Status Statistics</b> scheduled task may fail intermittently.	171590
After upgrading to Password Manager 5.9.x, the <b>My Notifications</b> custom workflow cannot be edited in the Password Manager Self-Service Site.	171589
<b>Workaround</b>	
One Identity recommends to use the legacy Self-Service Site to edit the <b>My Notifications</b> workflow.	
When using Password Manager for AD LDS, the <b>Password Policies</b> page of the Administration Site is not updated when a password policy is created.	170587
<b>Workaround</b>	
After a new Password Policy is created, click <b>Save</b> , and immediately cancel the <b>Add New Policy</b> wizard. The page will refresh and list the new policy.	
After upgrading to Password Manager for AD LDS 5.9.x, the <b>General Settings &gt; Search and Logon Options</b> menu may display an error when its settings are modified.	170560
<b>Workaround</b>	
To solve this problem:	
<ol style="list-style-type: none"> <li>1. In the Password Manager for AD LDS Helpdesk Site, navigate to <b>General Settings &gt; Search and Logon Options</b>.</li> <li>2. In the <b>Users must enter the following user account attribute for identification</b> setting, change the value from <b>sAMAccountName</b> to <b>cn</b>.</li> </ol>	
In Password Manager for AD LDS, certain column data required for custom activities are not available in generated reports.	170355
After upgrading Password Manager from an earlier version to 5.9.x, the upgrade process may create duplicate URL references for the Password Manager User Site.	169921
<b>Workaround</b>	
Manually delete URL shortcuts that are not required.	
When a Password Manager for AD LDS instance and the Password Manager for AD LDS server instance are not configured on the same machine, Password Policy Rules are not displayed in the new and legacy Password Manager for AD LDS Self-Service Sites.	169763
<b>Workaround</b>	
Configure the Password Manager for AD LDS instance and the Password Manager for AD LDS server instance on the same machine.	

Known issue	Issue ID
<p>The user search settings of the Password Manager for AD LDS Helpdesk Site may work incorrectly.</p> <p><b>Workaround</b></p> <p>To solve the problem:</p> <ol style="list-style-type: none"> <li>In the Password Manager for AD LDS Helpdesk Site, navigate to <b>General Settings &gt; Search and Logon Options</b>.</li> <li>Use the <b>cn</b> attribute instead of <b>mail</b> to search for users.</li> </ol>	169384
<p>The Password Manager Self-Service Site may not launch on Secure Password Extension (SPE) through a 32-bit operating system.</p> <p><b>Workaround</b></p> <p>If you have a 32-bit operating system, One Identity recommends to use the legacy Self-Service Site.</p>	167871
<p>When a password is changed from the target Active Directory (AD) system to that of the source AD, One Identity Quick Connect may be unable to synchronize passwords.</p> <p><b>Workaround</b></p> <p>Restart the Quick Connect Capture Agent Service on all the source and target systems.</p>	167573
<p>In Password Manager versions 5.8.2 and 5.9.x, you can only reconnect to a domain on the second attempt.</p> <p><b>Workaround</b></p> <p>To solve the problem:</p> <ol style="list-style-type: none"> <li>In the Password Manager Administration Site, select the User Scope, Helpdesk Scope or Password Policy you want to configure.</li> <li>Click <b>Add domain connection</b> twice to add a new domain connection.</li> </ol>	166950
<p>In email notifications, the #OPERATOR_ACCOUNT_NAME#, #OPERATOR_IP#, #WORKFLOW_RESULT#, and #WORKFLOW_SUMMARY# parameters are not populated.</p>	141728
<p>On Windows Server 2019, the Password Manager Service and One Identity rSMS Service may stop.</p> <p><b>Workaround</b></p> <p>To solve the problem, make sure that the domain controller machine and the clients are at two separate entities.</p>	127587
<p>When editing a dictionary file between the size of 10–20 MB from a Password Policy, the web browser session may crash, and an error may appear in the Windows Event Viewer.</p>	115957



**Workaround**

If you must modify a dictionary file larger than 10 MB, edit it from the domain machine where Password Policy Manager (PPM) is installed.

When performing a password reset with the Password Manager Helpdesk Site, the site also accepts the previous/old password. 114822

**Workaround**

Manually enter a different password during the short duration of the password reset.

## System requirements

This section provides the system requirements for installing and running Password Manager and its components.

## Password Manager Service and Administration Site requirements

Before installing Password Manager, ensure your system meets the following minimum hardware and software requirements. These requirements are applicable both to Full Installation and Distributed Installation (when the Self-Service Site and the Helpdesk Site are installed on separate systems).

**Table 7: Password Manager Service and Administration Site requirements**

Requirement	Details
Platform	1.6 GHz or higher.
Memory	At least 4 GB RAM.
Hard disk space	2.7 GB of free disk space. <b>NOTE:</b> If .NET Framework is already installed, then installation may require less disk space.
Operating system	Password Manager can be run on any of the following operating systems: <ul style="list-style-type: none"> <li>• Microsoft Windows Server 2012 R2</li> <li>• Microsoft Windows Server 2016</li> <li>• Microsoft Windows Server 2019</li> </ul>

Requirement	Details
	<ul style="list-style-type: none"> <li>• Microsoft Windows Server 2022</li> </ul> <p><b>NOTE:</b> Consider the following operating system and machine restrictions:</p> <ul style="list-style-type: none"> <li>• Password Manager is not supported on Windows Server Core mode setup.</li> <li>• One Identity does not recommend installing Password Manager on the machine where the Domain Controller (DC) server is installed.</li> <li>• Password Manager supports Windows Server 2012 R2 and later versions in domain and forest functional levels, including domains operating in a mixed mode.</li> <li>• Password Manager does not support Windows 2008 and earlier versions.</li> </ul>
Internet Information Services	<p>Password Manager requires any of the following Microsoft Internet Information Services (IIS) versions on the web server of your environment:</p> <ul style="list-style-type: none"> <li>• IIS 8.0</li> <li>• IIS 10.0</li> </ul> <p><b>NOTE:</b> PMSelfService site requires IIS 10.</p> <p><b>TIP:</b> To ensure best practice security, configure Password Manager to use HTTPS. For more information, see <i>Password Manager 5.13.0 Administrator Guide</i> or <i>Password Manager 5.13.0 Administrator Guide (AD LDS Edition)</i>.</p>
Web browser	<p>Password Manager supports the following web browsers:</p> <ul style="list-style-type: none"> <li>• Microsoft Edge</li> <li>• Mozilla Firefox 10 or later</li> <li>• Apple Safari 5 or later</li> <li>• Google Chrome 15 or later</li> </ul>
Microsoft .NET Framework	<p>Microsoft .NET Framework 4.7.2</p> <p><b>NOTE:</b> Install .NET Framework before you install Password Manager.</p>
Visual C++ Runtime Libraries	<p>Password Manager supports the following Visual C++ Runtime Libraries:</p> <ul style="list-style-type: none"> <li>• Visual C++ Runtime Libraries 2017</li> <li>• Visual C++ Runtime Libraries 2010</li> </ul> <p>Visual C++ Runtime Libraries x86 and x64 are included in the</p>

Requirement	Details
	Password Manager distribution package. <b>NOTE:</b> Install Visual C++ Runtime Libraries 2010 and Visual C++ Runtime Libraries 2017 before you install Password Manager.
Minimum screen resolution	1280x1024 pixels

## Password Manager Self-Service Site requirements

Make sure that every client computer meets the following minimum software requirements:

**Table 8: Password Manager Self-Service Site requirements**

Requirement	Details
Web browser	The Password Manager Self-Service Site supports the following browsers: <ul style="list-style-type: none"> <li>• Microsoft Edge</li> <li>• Mozilla Firefox 10 or later</li> <li>• Apple Safari 5 or later</li> <li>• Google Chrome 15 or later</li> </ul>
Mobile web browser	The Password Manager Self-Service Site supports the following mobile browsers: <ul style="list-style-type: none"> <li>• Microsoft Edge</li> <li>• Mozilla Firefox</li> <li>• Apple Safari</li> <li>• Google Chrome</li> <li>• DuckDuckGo</li> <li>• Samsung Internet</li> </ul>
Minimum screen resolution	1280x1024 pixels

# Password Manager Helpdesk requirements

Make sure that every client computer meets the following minimum software requirements:

**Table 9: Password Manager Helpdesk Site requirements**

Requirement	Details
Web browser	The Password Manager Helpdesk Site supports the following browsers: <ul style="list-style-type: none"><li>• Microsoft Edge</li><li>• Mozilla Firefox 10 or later</li><li>• Apple Safari 5 or later</li><li>• Google Chrome 15 or later</li></ul>
Minimum screen resolution	1280x1024 pixels

# Password Policy Manager requirements

To implement password policies in an Active Directory (AD) domain managed by Password Manager, deploy the Password Policy Manager component on all domain controllers of the managed domain.

The domain controllers where you plan to install the Password Policy Manager component must meet the following requirements:

**Table 10: Password Policy Manager Requirements**

Requirement	Details
Hard disk space	30 MB of free hard disk space.
Operating system	Password Policy Manager supports the following operating systems: <ul style="list-style-type: none"><li>• Microsoft Windows Server 2012 R2</li><li>• Microsoft Windows Server 2016</li><li>• Microsoft Windows Server 2019</li><li>• Microsoft Windows Server 2022</li></ul> <p><b>NOTE:</b> Password Manager does not support Windows Server Core mode setup.</p>

# Secure Password Extension requirements

To support password resets from the Windows login screen, you must deploy Secure Password Extension on all target computers in the managed domain. The target computers must meet the following minimum software requirements:

**Table 11: Secure Password Extension requirements**

Requirement	Details
Operating system	Secure Password Extension supports the following operating systems: <ul style="list-style-type: none"><li>• Microsoft Windows 8.1</li><li>• Microsoft Windows 10</li><li>• Microsoft Windows 11</li></ul>
Web browser	Microsoft Internet Explorer 11  <b>NOTE:</b> Due to potential security threats, One Identity does not recommend using any Internet Explorer plug-ins on computers with Secure Password Extension installed.

# Offline Password Reset requirements

To allow users to reset their forgotten passwords when they are not connected to the corporate network (making their domain unavailable), deploy the Offline Password Reset component on all target computers in the managed domain.

**NOTE:** Users can reset their passwords offline only if the Offline Password Reset component has been already installed prior to their scheduled password reset time.

The target computers must meet the following minimum software requirements:

**Table 12: Offline Password Reset requirements**

Requirement	Details
Operating system	The Offline Password Reset component supports the following operating systems: <ul style="list-style-type: none"><li>• Microsoft Windows 8.1</li><li>• Microsoft Windows 10</li><li>• Microsoft Windows 11</li></ul> <b>NOTE:</b> Password Manager does not support Windows Server Core mode setup.

# Password Manager Reports requirements

To configure and use Password Manager reports, you must:

1. Install an SQL server in your environment.
2. Configure reporting settings on the Password Manager Administration Site. For more information, see *Reporting* in *Password Manager 5.13.0 Administration Guide* or *Password Manager 5.13.0 Administration Guide (AD LDS Edition)*.

The report definitions included with Password Manager support all features of the SQL server versions listed in this section. All supported Microsoft SQL Server Reporting Services in Password Manager support SSL connection.

**Table 13: Password Manager Reports requirements**

Requirement	Details
SQL Server	The following SQL Server versions are supported: <ul style="list-style-type: none"><li>• Microsoft SQL Server 2014</li><li>• Microsoft SQL Server 2016</li><li>• Microsoft SQL Server 2017</li><li>• Microsoft SQL Server 2019</li><li>• Microsoft SQL Server 2022</li></ul>

## Accessing External URLs

To enable Password Manager to download images:

- The machine where Password Manager is installed must have an active Internet access.

## Upgrade and installation instructions

For more information on how to install or upgrade One Identity Password Manager, see the following resources:

- When you upgrade Password Manager from versions prior 5.11.0 or 5.11.1 and Secure Token Server features are used, create a backup of **Rsts.exe.config** in <password-manager-install-folder>\Service\SecureTokenServer. When the upgrade is finished, restore these files.

This procedure is not required for upgrades starting from version 5.12.0.

- If in any of the workflows in the **Authentication Methods** activity is used with the **Personal Email: Authenticate with Passcode** method, administrators must reconfigure this activity.
- For more information on the upgrade procedure, see *Upgrading Password Manager* in the *Password Manager 5.13.0 Administration Guide* or the *Password Manager 5.13.0 Administration Guide (AD LDS Edition)* documents.

You can upgrade to Password Manager 5.13.0 from version 5.9.x or later.

- For more information on how to install and configure Password Manager, see *Installing Password Manager* in the *Password Manager 5.13.0 Administration Guide*, *Password Manager 5.13.0 Administration Guide (AD LDS Edition)*, or the *Password Manager 5.13.0 Quick Start Guide* documents.

## Product licensing

One Identity Password Manager requires a license key for operation. For more information on license management, see *Licensing* in the *Password Manager 5.13.0 Administrator Guide* or the *Password Manager 5.13.0 Administrator Guide (AD LDS Edition)* 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. It supports simultaneous operation with multilingual data. 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.

The release is localized to the following languages: Chinese (Simplified), Chinese (Traditional), Czech, Danish, Dutch, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Portuguese (Portugal), Russian, Spanish, Swedish.

The Password Manager Self-Service site is not localized in any language other than English.

## 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 or other inquiries, 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



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**Legend**

-  **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

Password Manager Release Notes  
Updated - October 2023  
Version - 5.13.0

# Third-party contributions

This product contains the following third-party components. For the applicable licenses, see [Licenses](#).

Copies of component licenses may be found at <https://www.oneidentity.com/legal/license-agreements.aspx>.

Source code for components marked with an asterisk (\*) is available at <http://opensource.quest.com>.

Component	License of Acknowledgement
@angular/cdk 14.2.7	MIT N/A
@angular/material 14.2.7	MIT N/A
@angular/material-moment-adapter 14.2.7	MIT N/A
@ngx-translate/core 14.0.0	MIT N/A
@ngx-translate/http-loader 7.0.0	MIT N/A
ANTLR 3.4.1.9004	BSD-style license N/A
billboard.js 3.9.3	MIT Template 2020
CefSharp Chromium 106.0.29	Chromium Licence 2015 1.0
core-js 3.32.0	MIT Template 2020
DotNetZip 1.9.1.8	Microsoft Permissive License (Ms-PL) N/A
DotNetZip.Reduced 1.9.1.8	Microsoft Public License (Ms-PL) 1.0 - October 12, 2006
EWSSoftware.SHFB 2020.3.6	Microsoft Public License (Ms-PL) 1.0 - October 12, 2006
EWSSoftware.SHFB.NETFramework 4.8.0	Microsoft Public License (Ms-PL) 1.0 - October 12, 2006
file-saver 2.0.5	MIT N/A
hammerjs 2.0.8	MIT N/A
jquery 3.5.1	MIT N/A
JQuery Form 3.14	JQuery Form 3.14
jQuery Form Plugin 3.51	MIT N/A

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JQuery Library 3.3.1	MIT N/A
jQuery miniColors 1.0	MIT N/A
jQuery UI 1.12.1	MIT N/A
jQuery Validation 1.15.1	MIT N/A
jquery.address 1.6	MIT N/A
Jquery.meio.mask 1.1.14	MIT N/A
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Jquery.watermark 3.1.4	MIT N/A
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Json.NET 11.0.2	MIT 1.0
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Microsoft.IdentityModel.JsonWebTokens 5.4.0	MIT N/A
Microsoft.IdentityModel.JsonWebTokens 6.22.0	MIT Template 2020
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Microsoft.Web.Infrastructure 1.0.0	MICROSOFT .NET LIBRARY 1.0
Modernizr 1.7	Modernizr 1.7
Modernizr 2.6.2	MIT N/A
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Newtonsoft.Json 12.0.3	MIT Template 2020

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