

Password Manager

Release Notes

Version 5.13.3

13 November 2024, 00:43

These release notes provide information about the Password Manager 5.13.3 release. For the most recent documents and product information, see [Password Manager Technical Documents](#) on the One Identity Support Portal.

About this release

Password Manager 5.13.3 is a patch release with new features and functionality.

- For the list of new features, see [New features](#).
- For the list of enhancements, see [Enhancements](#).
- 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 5.13.3 contains the following new features:

- **Authenticating with Q&A Profile (User-selected questions):** Added a new activity for authentication known as **Authenticate with Q&A Profile (User-selected questions)**. 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 support for 2FA authentication:** You can now use the FIDO2 authentication method 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.
- **Defining custom phone number mask:** Administrators can define a phone number masking rule with a regular expression, which will be applied on Self-Service Site site phone numbers, where masking is required.
- **Internal feedback option:** You can now define feedback links and labels in the Administration Site, Helpdesk Site and Self-Service Site as well. At the same time, the former feedback feature to One Identity has been moved from the Self-Service Site to the Administration Site.
- **Associating hostnames for Secure Token Server with IPv4 ranges:** Added an IP range-based hostname resolution feature that allows administrators to:
 - Define specific IPv4 ranges using IP addresses and subnet masks.
 - Associate hostnames with the defined IPv4 ranges when using Secure Token Server features.

Related topics

- [Enhancements](#) on page 2
- [Resolved issues](#) on page 3
- [Known issues](#)

Enhancements

The following is a list of enhancements implemented in Password Manager 5.13.3.

Table 1: Enhancements

Enhancement	Issue ID
Reworked the Password Manager Secure Token Server (STS) configuration, allowing administrators to configure STS settings easier and to access frequently used settings quicker.	319035
The Password Manager Administrative Template Configuration tool now allows users to redefine the Path to Policy Definitions target location when needed.	410495

Enhancement	Issue ID
Updated the Angular version used in the Self-Service Site.	407892
<p>Extended the Authenticate via Passcode activity in Authentication Methods with the User can generate passcode option.</p> <p>When enabled, users are not required to have a helpdesk-issued passcode: instead, they can request a code to their registered personal email address or phone number.</p>	415849
<p>Previously, the Administration Site and the Helpdesk Site logged out users after 10 minutes regardless of user interactions. To improve user experience:</p> <ul style="list-style-type: none"> • These sites now use sliding expiration for sessions to prevent unintentional logouts. • Interacting with these sites now extend the timer by 5 minutes. 	419913
<p>Added a new condition to the Invite Users to Create/Update Profiles > Notify users who meet the following condition page, allowing administrators to specify days for the User's Q&A profile is older than the specified value setting.</p> <p>This means that if the Invitation to Create/Update Profile scheduled task starts running, then users who have updated their Q&A profile earlier than the specified days in this setting will be notified.</p>	410328

Resolved issues

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

Table 2: Resolved issues – General Password Manager issues

Resolved issue	Issue ID
The Required unique characters rule now evaluates the password correctly.	432728
Users can now register with the Personal Email method.	432389
Printing is now disabled in the Secure Password Extension browser window. The Self-Service Site help icon is now also empty if the help URL is set empty.	425262
Removed all obsolete Internet Explorer dependencies and restrictions from the product.	278249

Table 3: Resolved issues – Password Manager Administration Site

Resolved issue	Issue ID
The Administration Site now navigates to the correct Secure Token Server configuration page when stating that there are some configuration issues with a link pointing to the configuration page.	432924
On the Administration Site, the STS configuration page now sets the properties for External Federation providers correctly. NOTE: This fix will work correctly only if you save all External Federation authentication providers that you previously configured but did not work correctly.	432659
The Administration Site now displays the Not configured state of the Authentication Methods activity based on its settings.	426384
Previously, in the Password Policies > Policy Rules > User Properties Rule > Password must not contain > x beginning characters of a user property value setting, the default value of 0 was saved regardless of the entered value. This issue is now fixed so the entered value is now saved correctly.	421155
Previously, the Reset password in connected systems through embedded connectors activity could not load its settings. This issue is now fixed so administrators can now edit the settings of this activity.	420963
The Administration Site now supports ECDSA certificates.	404015
The Allow user search from external network setting now stores its state correctly if the Do not allow users to search for their accounts setting is also selected. NOTE: This fix will work correctly only if you first reconfigure the Allow user search from external network option in the Administration Site.	395034
Fixed certain vulnerabilities revealed by previous penetration tests.	308651

Table 4: Resolved issues – Password Manager Helpdesk Site

Resolved issue	Issue ID
Helpdesk Site operators can now search for accounts across multiple domains based on the settings of the Helpdesk Site, even if domain selection is not available.	433314
The Helpdesk Site now displays the User cannot change password information correctly.	426861
Error pages now reflect the previously configured site customization settings.	409587

Resolved issue	Issue ID
<p>Previously, the password change and reset password methods of the Self-Service Site did not support special characters.</p> <p>This issue is now fixed, and special characters are allowed in password inputs.</p>	407735

Table 5: Resolved issues – Password Manager Self-Service Site

Resolved issue	Issue ID
The Self-Service Site can now load activities of the same type consecutively correctly.	434544
The Self-Service Site now authenticates the user correctly in the Authentication with external provider activity if the Popup login style is in use.	432719
The Password Manager Self-Service Site now uses the word server in the routes instead of api .	427249
<p>The Self-Service Site now presents HTML-coded UI text labels in custom activities. The HTML code is sanitized by default, but you can disable this behavior via the <code>config.json</code> file in the following location:</p> <pre><password-manager-folder>/Password Manager/Web/SelfService/Scripts/libs/assets/config/config.json.</pre>	417153
If configured to use the pop-up login style, the Authenticate with external provider activity now correctly detects successful authentication and will forward the workflow to the next activity.	416350
Previously, the Password Manager for AD LDS Self-Service Site could not log actions and errors. This is now fixed so that it can log according to the configuration set on the Administration Site.	413037
<p>Previously, users could not enter the Self-Service Site site if they had / (forward slash) character in the <code>cn</code> attribute.</p> <p>This issue is now fixed, so having a forward slash in the <code>cn</code> attribute no longer blocks entry to the Self-Service Site.</p>	412456
<p>Previously, Self-Service Site did not provide troubleshooting information if Troubleshooting was enabled on the Administration Site.</p> <p>This issue is now fixed, so troubleshooting information is present and analyzing custom activities is easier.</p>	307341

Table 6: Resolved issues – Password Manager Secure Password Extension

Resolved issue	Issue ID
<p>Fixed a potential security vulnerability in Secure Password Extension (SPE). The Chromium component of SPE has been also updated to 126.2.7.</p>	438569, 460592

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 7: Known issues

Known issue	Issue ID
<p>When User Principal Name (UPN) is used as service account, installing a Password Manager hotfix can lock the service account.</p> <p>Workaround</p> <p>To solve the problem:</p> <ol style="list-style-type: none">1. Change the service account to the domainname\username format.2. Provide a password for the same service account user.3. Install the Password Manager hotfix.	255614
<p>Following a Password Manager upgrade, the General > Settings > Scheduled Tasks > Active Directory Sites task is disabled.</p> <p>Workaround</p> <p>After upgrading Password Manager to a newer version, enable the Active Directory Sites task manually.</p>	246147
<p>When scheduled from the secondary instance of the Password Manager server, the General Settings > Unregister Users task does not run.</p> <p>Workaround</p> <p>Schedule the Unregister Users task on the primary instance of Password Manager.</p>	233679
<p>If the application pool identity is a domain user with minimal permissions, then Web interface customization changes are not applied to the Self-Service and Helpdesk Sites.</p>	233658
<p>In the General Settings > Instance Reinitialization page, the Corporate phone attribute is not imported from the primary instance to the secondary instance.</p> <p>Workaround</p> <p>Update the Corporate phone attribute manually on the secondary instance to have the same value as on the primary Password Manager instance.</p>	229200
<p>If the Password Manager Self-Service Site contains an IPv6 address, the location-sensitive authentication (LSA) feature does not work.</p> <p>Workaround</p>	221571

Known issue	Issue ID
<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 Policy Rules > Dictionary Rule > Enable dictionary lookup to reject passwords that contain > Beginning characters of a dictionary word setting does not work correctly if you specify only 2 beginning characters.</p>	221468
<p>Workaround</p>	
<p>One Identity recommends using the A complete word from the dictionary (QPMDictionary.txt) setting when configuring a dictionary rule.</p>	
<p>If no appropriate authentication methods are configured for it, the Forgot My Password screen may appear blank in the Password Manager Self-Service Site or Helpdesk Site.</p>	221389
<p>Workaround</p>	
<p>In the Password Manager Administration Site, One Identity recommends configuring the Register workflow with Security Questions as one of its registration modes.</p>	
<p>When a symmetry rule is configured with the Policy Rules > Symmetry Rule setting of the Password Manager Administration Site, it may fail to validate passwords containing non-consecutive characters.</p>	220177
<p>Workaround</p>	
<p>Do not use the Policy Rules > Symmetry Rule > Maximum number of consecutive characters within a password, that read the same in both directions (pass4554word) setting.</p>	
<p>In a Password Manager for AD LDS environment, if the User Scope is configured with an AD LDS account, the Forgot My Password and Manage My Passwords workflows will fail.</p>	220171
<p>Workaround</p>	
<p>When configuring a User Scope, do not use The following AD LDS account setting of the Access account > Edit AD LDS Instance Connection dialog.</p>	
<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>	219401
<p>Workaround</p>	
<p>For the Email user if workflow succeeds workflow, change the value of the Select email template to use setting to Customize.</p>	

Known issue	Issue ID
Upgrading Password Manager from version 5.6.3 to 5.9.x keeps the previous My Questions and Answers profile workflow.	215892
Workaround	
To solve the problem:	
<ol style="list-style-type: none"> 1. In the Password Manager Administration Site, navigate to the My Questions and Answers profile workflow. 2. Open Workflow Settings > Availability. 3. Set Enable the workflow to Never. 4. Select Show the workflow on the Self-Service Site. 5. To apply your changes, click OK. 	
The User Status Statistics scheduled task may fail intermittently.	171590
After upgrading to Password Manager 5.9.x, the My Notifications custom workflow cannot be edited in the Password Manager Self-Service Site.	171589
Workaround	
One Identity recommends to use the legacy Self-Service Site to edit the My Notifications workflow.	
When using Password Manager for AD LDS, the Password Policies page of the Administration Site is not updated when a password policy is created.	170587
Workaround	
After a new Password Policy is created, click Save , and immediately cancel the Add New Policy wizard. The page will refresh and list the new policy.	
After upgrading to Password Manager for AD LDS 5.9.x, the General Settings > Search and Logon Options menu may display an error when its settings are modified.	170560
Workaround	
To solve this problem:	
<ol style="list-style-type: none"> 1. In the Password Manager for AD LDS Helpdesk Site, navigate to General Settings > Search and Logon Options. 2. In the Users must enter the following user account attribute for identification setting, change the value from <code>sAMAccountName</code> to <code>cn</code>. 	
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

Known issue	Issue ID
Workaround	
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
Workaround	
Configure the Password Manager for AD LDS instance and the Password Manager for AD LDS server instance on the same machine.	
The user search settings of the Password Manager for AD LDS Helpdesk Site may work incorrectly.	169384
Workaround	
To solve the problem:	
<ol style="list-style-type: none"> 1. In the Password Manager for AD LDS Helpdesk Site, navigate to General Settings > Search and Logon Options. 2. Use the cn attribute instead of mail to search for users. 	
The Password Manager Self-Service Site may not launch on Secure Password Extension (SPE) through a 32-bit operating system.	167871
Workaround	
If you have a 32-bit operating system, One Identity recommends to use the legacy Self-Service Site.	
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.	167573
Workaround	
Restart the Quick Connect Capture Agent Service on all the source and target systems.	
In Password Manager versions 5.8.2 and 5.9.x, you can only reconnect to a domain on the second attempt.	166950
Workaround	
To solve the problem:	
<ol style="list-style-type: none"> 1. In the Password Manager Administration Site, select the User Scope, Helpdesk Scope or Password Policy you want to configure. 2. Click Add domain connection twice to add a new domain connection. 	
In email notifications, the #OPERATOR_ACCOUNT_NAME#, #OPERATOR_IP#,	141728

Known issue	Issue ID
#WORKFLOW_RESULT#, and #WORKFLOW_SUMMARY# parameters are not populated.	
On Windows Server 2019, the Password Manager Service and One Identity rSMS Service may stop.	127587
Workaround	
To solve the problem, make sure that the domain controller machine and the clients are at two separate entities.	
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.	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

Before installing Password Manager 5.13.3, ensure that your system meets the following minimum hardware and software requirements.

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. For more information about environment virtualization, see [One Identity's Product Support Policies](#).

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 8: 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. NOTE: 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">• Microsoft Windows Server 2016• Microsoft Windows Server 2019• Microsoft Windows Server 2022 NOTE: Consider the following operating system and machine restrictions: <ul style="list-style-type: none">• Password Manager is not supported on Windows Server Core mode setup.• One Identity does not recommend installing Password Manager on the machine where the Domain Controller (DC) server is installed.• Password Manager supports Windows Server 2016 and later versions in domain and forest functional levels, including domains operating in a mixed mode.• Password Manager does not support Windows Server 2012 R2 and earlier versions.
Internet Information Services	Password Manager requires any of the following Microsoft Internet Information Services (IIS) versions on the web server of your environment: <ul style="list-style-type: none">• IIS 8.0• IIS 10.0 NOTE: PMSelfService site requires IIS 10. TIP: To ensure best practice security, configure Password Manager to use HTTPS. For more information, see <i>Password Manager 5.13.3 Administrator Guide</i> or <i>Password Manager 5.13.3 Administrator Guide (AD LDS Edition)</i> .
Web browser	Password Manager supports the following web browsers: <ul style="list-style-type: none">• Microsoft Edge

Requirement	Details
	<ul style="list-style-type: none"> • Mozilla Firefox 10 or later • Apple Safari 5 or later • Google Chrome 15 or later
Microsoft .NET Framework	Microsoft .NET Framework 4.7.2 NOTE: Install .NET Framework before you install Password Manager.
Visual C++ Runtime Libraries	Password Manager supports the following Visual C++ Runtime Libraries: <ul style="list-style-type: none"> • Visual C++ Runtime Libraries 2017 • Visual C++ Runtime Libraries 2010 Visual C++ Runtime Libraries x86 and x64 are included in the Password Manager distribution package. NOTE: 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 9: 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"> • Microsoft Edge • Mozilla Firefox 10 or later • Apple Safari 5 or later • Google Chrome 15 or later
Mobile web browser	The Password Manager Self-Service Site supports the following mobile browsers: <ul style="list-style-type: none"> • Microsoft Edge • Mozilla Firefox

Requirement	Details
	<ul style="list-style-type: none"> • Apple Safari • Google Chrome • DuckDuckGo • Samsung Internet
Minimum screen resolution	1280x1024 pixels

Password Manager Helpdesk requirements

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

Table 10: Password Manager Helpdesk Site requirements

Requirement	Details
Web browser	The Password Manager Helpdesk Site supports the following browsers: <ul style="list-style-type: none"> • Microsoft Edge • Mozilla Firefox 10 or later • Apple Safari 5 or later • Google Chrome 15 or later
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 11: Password Policy Manager Requirements

Requirement	Details
Hard disk space	30 MB of free hard disk space.
Operating	Password Policy Manager supports the following operating systems:

Requirement	Details
system	<ul style="list-style-type: none"> • Microsoft Windows Server 2016 • Microsoft Windows Server 2019 • Microsoft Windows Server 2022 <p>NOTE: 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 12: Secure Password Extension requirements

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

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 13: Offline Password Reset requirements

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

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 5.13.3 Administration Guide* or *Password Manager 5.13.3 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 14: Password Manager Reports requirements

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

Accessing External URLs

To enable Password Manager to download images:

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

Product licensing

Password Manager requires a license key for operation. For more information on license management, see *Licensing* in the *Password Manager 5.13.3 Administration Guide* or the *Password Manager 5.13.3 Administration Guide (AD LDS Edition)* documents.

Upgrade and installation instructions

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

- When you upgrade Password Manager from versions prior to 5.11.3, 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 5.12.3.

- 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 5.13.3 Administration Guide* or the *Password Manager 5.13.3 Administration Guide (AD LDS Edition)* documents.

You can upgrade to Password Manager 5.13.3 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 5.13.3 Administration Guide*, *Password Manager 5.13.3 Administration Guide (AD LDS Edition)*, or the *Password Manager 5.13.3 Quick Start Guide* 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 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
- 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>.

Table 15: List of Third-Party Contributions

Component	License or Acknowledgement
@angular/cdk 14.2.7	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
@angular/material 14.2.7	Copyright (c) 2010-2023 Google LLC. For the license text, see: https://angular.io/license
@angular/material-moment-adapter 14.2.7	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
@ngx-translate/core 14.0.0	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
@ngx-translate/http-loader 7.0.0	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
ANTLR 3.4.1.9004	Licensed under the BSD license. For the license text, see: https://opensource.org/licenses/BSD-3-clause
billboard.js 3.9.3	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php

Component	License or Acknowledgement
CefSharp Chromium 126.2.7	Licensed under the BSD license. For the license text, see: https://opensource.org/license/BSD-3-clause
core-js 3.32.0	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
file-saver 2.0.5	Copyright © 2016 Eli Grey Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
hammerjs 2.0.8	Copyright (C) 2011-2017 by Jorik Tangelder (Eight Media) Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
jquery 3.5.1	Copyright OpenJS Foundation and other contributors, https://openjsf.org/ Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
JQuery Form 3.14	Copyright (c) 2015 The jQuery Foundation. Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
jQuery Form Plugin 3.51	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
JQuery Library 3.3.1	Copyright (c) 2015 The jQuery Foundation.

Component	License or Acknowledgement
jQuery miniColors 1.0	<p>Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php</p> <p>Copyright 2011 Cory LaViska for A Beautiful Site, LLC. (http://abeautifulsite.net/)</p> <p>Dual licensed under the MIT or GPL Version 2 licenses.</p> <p>For the license texts, see:</p> <ul style="list-style-type: none"> • http://www.opensource.org/licenses/mit-license.php • https://www.gnu.org/licenses/old-licenses/lgpl-2.0.html
jQuery UI 1.12.1	<p>Copyright 2007, 2014 jQuery Foundation and other contributors, https://jquery.org/</p> <p>Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php</p>
jQuery Validation 1.15.1	<p>Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php</p>
jquery.address 1.6	<p>Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php</p>
Jquery.meio.mask 1.1.14	<p>Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php</p>
jQuery.UI.Combined 1.12.1	<p>Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php</p>

Component	License or Acknowledgement
Jquery.watermark 3.1.4	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
jquery-cookie 1.2	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
jquery-validate 1.19.3	Licensed under the MIT license. For the license text, see: http://www.opensource.org/licenses/mit-license.php
Json Org v2	Public Domain. NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK. Licensed under the JSON license. For the license text, see: https://www.json.org/license.html
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