

# One Identity Defender 5.9.3

## Release Notes

Tuesday, November 6, 2018

These release notes provide information about the One Identity Defender release.

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## About One Identity Defender 5.9.3

Defender enhances security by using two-factor authentication to authenticate the users who request access to valuable resources within your organization. Defender uses your current identity store within Microsoft® Active Directory® to enable two-factor authentication, taking advantage of its inherent scalability and security, and eliminating the costs and time involved to set up and maintain proprietary databases. Defender's Web-

based administration and user self-service ease the implementation of two-factor authentication for both administrators and users.

Defender 5.9.3 is a minor release, with the product rebranded to One Identity Defender.

See [New features](#).

## New features

New features in Defender 5.9.3:

- **Support for One Identity Active Roles 7.3** Added support for Active Roles 7.3 to One Identity Defender

See also:

[Resolved issues](#)

## Resolved issues

The following is a list of issues addressed in 5.9.3 release.

**Table 1: Defender Desktop Login resolved issues**

Resolved Issue	Issue ID
Authentication using Defender Desktop Login fails if the user logon name contains extended ASCII characters.	664947
Authentication using the "Token and Active Directory password" Defender policy fails if the Active Directory password starts with a comma (').	697900
Offline log in to the system using Defender Desktop Login does not work if YubiKey token is used.	712826

**Table 2: Defender Management Portal resolved issues**

Resolved Issue	Issue ID
Some User Interface fields in Defender Management Portal become unusable if the browser window is sized down.	714534
Limits set on log receiver database size in the Defender Security Server are not processed correctly.	712806
The Defender Administration UI is not available in the Defender Management	742091

<b>Resolved Issue</b>	<b>Issue ID</b>
Portal to a user, when the user is a part of usergroup created under OU with Asterisk (*).	
The Defender Admin tile is not visible in management portal for the logged-on user with management portal administrator privileges.	770197
Administrator UI is unavailable in Defender Management Portal when a user belongs to a group with access.	759031
Incorrect timestamps are shown in Defender Management Portal activity logs.	761458
<i>Session expired</i> message is displayed when trying to select a group when generating a report in the Reporting Console in the Defender Management Portal.	683972
When a token is programmed through the Defender Management Portal, <b>Assigned to</b> field does not update properly on a Defender token object in 'Active Directory Users and Computers' and the 'Defender Management Portal'.	778510

**Table 3: Other resolved issues**

<b>Resolved Issue</b>	<b>Issue ID</b>
Unable to view or assign Defender tokens from Active Roles MMC console for users with a comma (,) in their name.	758652
License details fail to load in the License dialog box, in the Defender Administration Console.	777861
<i>Defender Administrator Guide</i> contains incorrect instructions on how to enable diagnostic logging for the Defender Security Server.	780455
"The request is not supported" error occurs when trying to authenticate on a Windows Server 2016 machine using Defender EAP Agent.	713585
Authentication using the Defender ISAPI Agent fails occasionally.	713732
Potential security vulnerability issue in Defender ISAPI Agent.	728905
Potential security vulnerability issue in Defender ISAPI Agent.	616557
According to the logs, Defender Security Server is busy when authentication requests are triggered from unknown client/network devices and users.	763273
The recent active user details are used, when the RADIUS server is unable to decode client RADIUS authentication packets.	771656
Defender Integration Pack for Active Roles now supports Active Roles 7.3.	778514

# 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 4: General known issues**

Known Issue	Issue ID
When a user logs in for the first time using Defender Desktop Login provider, the system takes more time to respond after the token details are entered.	784380
When trying to authenticate with the Defender ISAPI Agent, the following error occurs even if a valid token response is entered: <i>Error Message - Invalid token response. Enter a valid token response</i>	783463
<b>Workaround</b> The error message is displayed when the Defender ISAPI Agent is not configured correctly, for example, when the connection to the Defender Security Server is specified incorrectly. Make sure that the settings of the Defender ISAPI Agent are configured correctly.	
Defender Desktop Login component does not allow to log in when the NTLM v2 is enabled and Kerberos authentication is disabled.	776920
<b>Workaround</b> Enable the Kerberos authentication.	
The user is not allowed to log in to the system when the group name is renamed in Active Directory.	781927
<b>Workaround</b> The Admin user must log into the client machine, remove and add the group from Defender Desktop Login configuration tool (GinaConfig.exe).	
If <b>Test connection automatically</b> setting in the DSS configuration is enabled, a very large number of DSS logs may be generated.	712795
<b>Workaround</b> <ul style="list-style-type: none"><li>• Workaround 1: Disable the 'Test connection automatically' setting.</li><li>• Workaround 2: Make sure you have enough space for DSS log files, and periodically delete old log files.</li></ul>	
When a user using their GrIDSure token authenticates to a website protected by the Defender ISAPI Agent, they are unable to reset the PIP. This may happen if the user has other tokens assigned to them besides the GrIDSure token.	723423
<b>Workaround</b> Make sure that no other tokens are assigned to the user, if they are using the	

Known Issue	Issue ID
GrIDSure token for authentication.	
<p>"The user name or password is incorrect." error may occur even when user log-in to the Defender Management Portal with correct credentials. This error message may appear if the domain controller is not available to the Management Portal.</p> <p><b>Workaround</b></p> <p>Make sure that the Active Directory functions correctly, and the machine with Defender Management Portal is able to reach a domain controller.</p>	588772
<p>When authenticating via Defender, users may encounter the message "You must change your password before logging on for the first time" that prevents them from logging in. This may occur if the user's password has expired and the Defender security policy is set to use the proper name or Defender ID for authentication.</p> <p><b>Workaround</b></p> <p>Do one of the following:</p> <ol style="list-style-type: none"> <li>1. Allow users to change their expired passwords using some other means.</li> <li>2. Change the Defender security policy to use a SAM account name or UPN for authentication.</li> </ol>	366713
<p>When a user attempts to log on to a computer protected by Defender Desktop Login with a GrIDSure token for the first time the following error may appear: "Access Denied." This may occur if the user uses an alternate UPN suffix.</p> <p><b>Workaround</b></p> <p>Switch the user to use the default UPN suffix during the logon procedure.</p>	366722
<p>An attempt to authenticate users using a VIP credential may fail in a child domain, when the VIP credential certificate is installed only in the root domain.</p> <p><b>Workaround</b></p> <p>Install the VIP credential certificate in the child domain.</p>	366743
<p>A user, authenticating via Defender Password for the first time, is not prompted to change the password, even though the corresponding option was selected when the password was assigned to the user. This may occur if Defender Password expiration is not enabled in the corresponding security policy.</p> <p><b>Workaround</b></p> <p>Edit the corresponding security policy object in the Administration Console and enable expiration of the Defender Password.</p>	366794
<p>To change the user ID setting on an access node, the DSS Service must be restarted.</p>	366822

Known Issue	Issue ID
<b>Workaround</b>	
Restart the Defender Security Server service. You can use the Defender Security Server Configuration utility to do this.	
When attempting to log on to a computer protected by Defender Desktop Login as a local user, you may see the following confusing error message: "The Defender Security Server could not log you on as your system administrator has denied you the right to log on locally."	366824
<b>Workaround</b>	
This error message indicates that you cannot log on as a local user without Defender authentication.	
A user may encounter an error when trying to change the PIN on a token. This issue may occur if a GrIDSure token is also assigned to that same user.	366941
<b>Workaround</b>	
Make sure that users who are assigned a token with a PIN do not have a GrIDSure token assigned to them.	
The Token Program wizard in the Defender Administration Console may skip pages and produce errors. This may occur when two or more instances of the Administration Console are running at the same time on the same computer.	417432
<b>Workaround</b>	
Use only a single instance of Defender Administration Console and close the multiple instances.	
When you assign a token to a user in the Administration Console, the token may fail to immediately appear in the user's list of tokens.	417457
<b>Workaround</b>	
This behavior is due to the replication latency in Active Directory. View the list of tokens after the changes have been replicated.	
After you change the user's token list in the Management Portal (e.g. assign a token to the user, or unassigning a token), the list of tokens may remain unchanged.	417714
<b>Workaround</b>	
This behavior is due to the replication latency in Active Directory. View the list of tokens after the changes have been replicated.	
When using the Management Portal to unlock an account locked by Defender (not Windows), you may see a confusing confirmation message about resetting the violation count.	420395
<b>Workaround</b>	

Known Issue	Issue ID
When you unlock an account locked by Defender, the violation count is automatically reset as well.	
When accessing the Management Portal for the first time, it is possible to access the Defender reports site, but the reports are non-functional. This may happen because the Management Portal service account has not yet been configured.	421707
<b>Workaround</b>	
Navigate to the Management Portal Administration user interface and configure the service account.	
When you point the mouse cursor on the "Authentication requests by DSS" diagram in the Management Portal Dashboard, the tooltip may list an incorrect value, while the diagram displays the correct value for the number of authentication requests.	421715
<b>Workaround</b>	
Do either of the following:	
<ol style="list-style-type: none"> <li>1. Use the value on the diagram.</li> <li>2. Reload the web page (CTRL+F5) to update the value in the tooltip.</li> </ol>	
When you use the Defender Integration Pack for ActiveRoles, the Defender license allocation value seen in the ActiveRoles Administration Console may be different from the values in the Defender Administration Console. This may occur in a multi-domain environment when ActiveRoles Server accesses a domain using a domain controller that is not a global catalog.	429274
<b>Workaround</b>	
Use the values in the Defender Administration Console, these are the correct values.	
When you program mobile software tokens using the Defender Integration Pack for Active Roles, the option to program the tokens in challenge-response mode is available. Selecting this option may produce an error.	431278
<b>Workaround</b>	
Defender software tokens for mobile devices currently do not support challenge-response mode. Ignore this option.	
When trying to access a site protected by the Defender ISAPI Agent, you may see the following error: "Calling LoadLibraryEx on ISAPI filter failed." This may occur if the web site protected by the ISAPI Agent is a 32-bit site running on a 64-bit IIS.	435240
<b>Workaround</b>	
If you need to run a 32-bit web site, consider running it on a 32-bit computer	

Known Issue	Issue ID
with a 32-bit IIS and install the 32-bit version of the Defender ISAPI Agent.	
When you enter a verification code when requesting a software token through the Self-Service Portal, you may see the following confusing error message: "The link has expired."	436701
<b>Workaround</b>	
This error message means that the verification code has expired.	
Start over by requesting a software token.	
In an environment where the Defender EAP Agent is used in conjunction with the Soft Token for Windows, the passcode from the token may not be accepted when establishing a VPN connection. This issue occurs when Soft Token for Windows is programmed in challenge-response mode.	439473
<b>Workaround</b>	
Program the Soft Token for Windows in synchronous mode.	
The Defender EAP Agent may not integrate with the Soft Token for Windows to retrieve the token response automatically. This issue occurs on a 64-bit operating system.	441655
<b>Workaround</b>	
Launch the Soft Token for Windows, and enter the passcode in the VPN client manually.	
Users who are directly assigned to an access node cannot be moved to a different OU.	452765
<b>Workaround</b>	
Un-assign the user from the access node, move the user, and then assign the user back to the access node. To prevent this issue, assign groups rather than individual users to access nodes.	
When Defender EAP Agent is used with a VPN connection, the dialog box to enter the token response does not appear. This issue may occur if EAP Agent is installed on a computer running Windows 10 operating system.	462928
<b>Workaround</b>	
Use the EAP Agent installed on a computer running an operating system other than Windows 10.	
When you try to uninstall the Defender Soft Token for Java, the uninstallation wizard may finish successfully, but no application files are removed. This may occur on computers running Windows 8 or later with User Account Control enabled.	487077
<b>Workaround</b>	



Known Issue	Issue ID
<p>Open the command prompt as administrator and run the following command: java -jar &lt;path to uninstaller file&gt;</p>	
<p>When configuring the option "Use service account for all actions" in the Management Portal settings, the 'Save' button is not enabled to save the changes.</p>	504067
<p><b>Workaround</b></p>	
<p>Re-enter and re-confirm the service account password to enable the 'Save' button.</p>	
<p>When searching for tokens on the Management Portal, a token is displayed as assigned to a single user, even though the token is assigned to more than one user. This occurs when Internet Explorer is used as the browser.</p>	504432
<p><b>Workaround</b></p>	
<p>Use a different supported browser.</p>	
<p>When trying to authenticate through the ISAPI Agent the following error is displayed: "Invalid Token Response.", even though you have entered the correct token response. This occurs when DSS is unavailable.</p>	591408
<p><b>Workaround</b></p>	
<p>Make sure that the DSS is available and retry the login attempt.</p>	
<p>When Web Service API is the only Defender component installed on a computer, it does not work.</p>	597986
<p><b>Workaround</b></p>	
<p>Install Defender Management Shell or Management Portal component on the same computer.</p>	
<p>After upgrading to the latest version of the Web Service API, both the old and the new versions of the component are present in Windows "Installed Programs" list.</p>	598397
<p><b>Workaround</b></p>	
<p>Only the latest version gets installed. You can ignore the old version that is listed.</p>	
<p>When requesting an SMS token through the Self-Service Portal, the Program Token wizard finishes successfully, but the token is not assigned. This occurs when out-of-band verification is used and the verification link is opened on a device different from the original one.</p>	598605
<p><b>Workaround</b></p>	
<p>On the final page of the Program Token wizard, click <b>Back</b>, click <b>Next</b>, and then click <b>Finish</b>.</p>	

## Known Issue

## Issue ID

While trying to log in to the Defender Management Portal after an upgrade to version 5.9, user may see the login screen of the previous version.

722484

### Workaround

Clear the browser cache.

## Deprecated features

The following features have been deprecated in this release:

- Support for Active Roles Server 6.7 and 6.8
- Support for Windows Vista
- Defender Soft Token for BlackBerry devices running OS 5,6 and 7
- Defender Soft Token for BlackBerry QNX, a legacy Android port for devices running BlackBerry OS 10

**NOTE:** If you have already installed soft token on BlackBerry with OS 5, 6 or 7 or soft token for Blackberry QNX, you can continue to use it. However, it is recommended to use soft token on BlackBerry with OS 10 or SMS tokens.

## System requirements

You can install Defender on physical computers or virtual machines.

System requirements for Defender components:

- [Defender Security Server](#)
- [Defender Administration Console](#)
- [Desktop Login](#)
- [Desktop Login Group Policy](#)
- [Defender Management Portal](#)
- [Extensible Authentication Protocol \(EAP\) Agent](#)
- [Defender Integration Pack for Active Roles](#)
- [ISAPI Agent](#)
- [Defender Management Shell](#)
- [VPN Integrator](#)

- [Client SDK](#)
- [Web Service API](#)

System requirements for native Defender software tokens:

- [Defender Soft Token for Android™](#)
- [Defender Soft Token for BlackBerry](#)
- [Defender Soft Token for iOS](#)
- [Defender Soft Token for Java](#)
- [Defender Soft Token for Windows](#)
- [Defender Soft Token for Windows Phone](#)

## Defender Security Server

**Table 5:**  
**Defender Security Server system requirements**

Requirement	Details
Processor	2 GHz or faster, x86 or x64 architecture
Memory (RAM)	2 GB or more
Hard disk space	40 GB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"> <li>• Windows Server 2016</li> <li>• Windows Server 2012 R2</li> <li>• Windows Server 2012</li> <li>• Windows Server 2008 R2</li> <li>• Windows Server 2008 (32 and 64 bit editions)</li> </ul>

## Defender Administration Console

**Table 6:**  
**Defender Administration Console system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture

Requirement	Details
Memory (RAM)	512 MB or more
Hard disk space	2 GB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> <li>Windows Server 2012</li> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> <li>Windows 10 (32- and 64-bit editions)</li> <li>Windows 8.1 (32- and 64-bit editions)</li> <li>Windows 8 (32- and 64-bit editions)</li> <li>Windows 7 (32- and 64-bit editions)</li> </ul>
Additional software	<ul style="list-style-type: none"> <li>Active Directory Users and Computers (ADUC) tool</li> <li>Microsoft Visual C++ 2013 Redistributable Package (installed automatically together with the Defender Administration Console)</li> <li>Microsoft .NET Framework 4.5.2 (installed automatically together with the Defender Administration Console)</li> </ul>

## Desktop Login

**Table 7:**  
**Desktop Login system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	20 MB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> </ul>

Requirement	Details
	<ul style="list-style-type: none"> <li>Windows Server 2012</li> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> <li>Windows 10 (32- and 64-bit editions)</li> <li>Windows 8.1 (32- and 64-bit editions)</li> <li>Windows 8 (32- and 64-bit editions)</li> <li>Windows 7 (32- and 64-bit editions)</li> </ul>

## Desktop Login Group Policy

**Table 8:**  
**Desktop Login Group Policy system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	20 MB or more
Operating system	<p>Your computer must be running one of the following operating systems (with or without any Service Pack):</p> <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> <li>Windows Server 2012</li> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> <li>Windows 10 (32- and 64-bit editions)</li> <li>Windows 8.1 (32- and 64-bit editions)</li> <li>Windows 8 (32- and 64-bit editions)</li> <li>Windows 7 (32- and 64-bit editions)</li> </ul>

# Defender Management Portal

**Table 9:**  
**Defender Management Portal system requirements**

<b>Requirement</b>	<b>Details</b>
Processor	2 GHz or faster, x86 or x64 architecture
Memory (RAM)	2 GB or more
Hard disk space	40 GB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"><li>• Windows Server 2016</li><li>• Windows Server 2012 R2</li><li>• Windows Server 2012</li><li>• Windows Server 2008 R2</li><li>• Windows Server 2008 (32- and 64-bit editions)</li></ul>
Additional software	<ul style="list-style-type: none"><li>• Microsoft Internet Information Services (IIS) 10.0, 8.5, 8.0, 7.5, or 7.0, with Forms Authentication and ASP .NET role services enabled (configured automatically by the setup)</li><li>• Microsoft .NET Framework 4.5.2 (installed automatically together with the Defender Management Portal)</li><li>• To access the Defender Management Portal, you can use any of the following Web browsers:<ul style="list-style-type: none"><li>• Chrome 15 or later</li><li>• Firefox 8 or later</li><li>• Internet Explorer 9 or later (Internet Explorer run in compatibility mode is not supported)</li><li>• Opera 11.1 or later</li><li>• Safari 5.1 or later</li></ul></li></ul>

# Extensible Authentication Protocol (EAP) Agent

**Table 10:**  
**EAP Agent system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	10 MB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"><li>• Windows Server 2016</li><li>• Windows Server 2012 R2</li><li>• Windows Server 2012</li><li>• Windows Server 2008 R2</li><li>• Windows Server 2008 (32- and 64-bit editions)</li><li>• Windows 10 (32- and 64-bit editions)</li><li>• Windows 8.1 (32- and 64-bit editions)</li><li>• Windows 8 (32- and 64-bit editions)</li><li>• Windows 7 (32- and 64-bit editions)</li></ul>

## Defender Integration Pack for Active Roles

**Table 11:**  
**Defender Integration Pack for Active Roles system requirements**

Requirement	Details
Required software	<ul style="list-style-type: none"><li>• Active Roles 7.3, 7.2, 7.1, 7.0 or 6.9</li></ul> Required Active Roles components: <ul style="list-style-type: none"><li>• Administration Service</li><li>• Web Interface</li><li>• Active Roles console</li></ul> <ul style="list-style-type: none"><li>• Defender Administration Console</li></ul>
Operating system	Your computer must be running one of the following

Requirement	Details
	operating systems (with or without any Service Pack): <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> <li>Windows Server 2012</li> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> </ul>
Additional software	Microsoft .NET Framework 4.5.2 (installed automatically together with the Defender Integration Pack for Active Roles)

## ISAPI Agent

**Table 12:**  
**ISAPI Agent system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	20 MB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> <li>Windows Server 2012</li> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> </ul>
Microsoft Internet Information Services (IIS)	IIS 10.0, 8.5, 8.0, 7.5, or 7.0 with the following role services enabled: <ul style="list-style-type: none"> <li>Web Server/Application Development <ul style="list-style-type: none"> <li>ASP</li> <li>ISAPI Filters</li> </ul> </li> <li>Management Tools/IIS 6 Management Compatibility <ul style="list-style-type: none"> <li>IIS 6 Metabase Compatibility</li> </ul> </li> </ul> <p>The above mentioned roles services are activated</p>



Requirement	Details
	automatically by the setup. The Web Server (IIS) role is not installed by the setup.
Web browsers	<p>You can use any of the following web browsers to access web sites protected by ISAPI Agent:</p> <ul style="list-style-type: none"> <li>• Chrome 15 or later</li> <li>• Firefox 8 or later</li> <li>• Internet Explorer 9 or later (Internet Explorer run in compatibility mode is not supported)</li> <li>• Opera 11.1 or later</li> <li>• Safari 5.1 or later</li> </ul>

## Defender Management Shell

**Table 13:**  
**Defender Management Shell system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	10 MB or more
Operating system	<p>Your computer must be running one of the following operating systems (with or without any Service Pack):</p> <ul style="list-style-type: none"> <li>• Windows Server 2016</li> <li>• Windows Server 2012 R2</li> <li>• Windows Server 2012</li> <li>• Windows Server 2008 R2</li> <li>• Windows Server 2008 (32- and 64-bit editions)</li> <li>• Windows 10 (32- and 64-bit editions)</li> <li>• Windows 8.1 (32- and 64-bit editions)</li> <li>• Windows 8 (32- and 64-bit editions)</li> <li>• Windows 7 (32- and 64-bit editions)</li> </ul>
Additional software	Windows PowerShell 3.0

# VPN Integrator

**Table 14:**  
**VPN Integrator system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	10 MB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"><li>• Windows Server 2016</li><li>• Windows Server 2012 R2</li><li>• Windows Server 2012</li><li>• Windows Server 2008 R2</li><li>• Windows Server 2008 (32- and 64-bit editions)</li><li>• Windows 10 (32- and 64-bit editions)</li><li>• Windows 8.1 (32- and 64-bit editions)</li><li>• Windows 8 (32- and 64-bit editions)</li><li>• Windows 7 (32- and 64-bit editions)</li></ul>

## Client SDK

**Table 15:**  
**Client SDK system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	10 MB or more
Operating system	Your computer must be running one of the following operating systems (with or without any Service Pack): <ul style="list-style-type: none"><li>• Windows Server 2016</li><li>• Windows Server 2012 R2</li><li>• Windows Server 2012</li></ul>

Requirement	Details
	<ul style="list-style-type: none"> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> <li>Windows 10 (32- and 64-bit editions)</li> <li>Windows 8.1 (32- and 64-bit editions)</li> <li>Windows 8 (32- and 64-bit editions)</li> <li>Windows 7 (32- and 64-bit editions)</li> </ul>

## Web Service API

**Table 16:**  
**Web Service API system requirements**

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	10 MB or more
Operating system	<p>Your computer must be running one of the following operating systems (with or without any Service Pack):</p> <ul style="list-style-type: none"> <li>Windows Server 2016</li> <li>Windows Server 2012 R2</li> <li>Windows Server 2012</li> <li>Windows Server 2008 R2</li> <li>Windows Server 2008 (32- and 64-bit editions)</li> <li>Windows 10 (32- and 64-bit editions)</li> <li>Windows 8.1 (32- and 64-bit editions)</li> <li>Windows 8 (32- and 64-bit editions)</li> <li>Windows 7 (32- and 64-bit editions)</li> </ul>

## Defender Soft Token for Android™

Requires Android 2.2 or later.

## Defender Soft Token for BlackBerry

Requires the following operating system:

- BlackBerry 10

## Defender Soft Token for iOS

Requires iOS 8.0 or later.

## Defender Soft Token for Java

Requires Java Runtime Environment 1.6 or later.

## Defender Soft Token for Windows

Requires one of the following operating systems (with or without any Service Pack):

- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008 (32- and 64-bit editions)
- Windows 10 (32- and 64-bit editions)
- Windows 8.1 (32- and 64-bit editions)
- Windows 8 (32- and 64-bit editions)
- Windows 7 (32- and 64-bit editions)

## Defender Soft Token for Windows Phone

Requires Windows Phone 7.5 or later.

# Upgrade and compatibility

One Identity Defender is upgradeable from version 5.8 and later.

To upgrade a Defender component, install the new version of that component on the computer where an earlier version of the component is installed.

## Product licensing

### *To add a Defender license*

1. On the computer where the Defender Administration Console is installed, open the Active Directory Users and Computers tool (dsa.msc).
2. In the left pane (console tree), expand the appropriate domain node, and select the Defender container.
3. On the menu bar, select **Defender | License**.
4. On the **License** tab, click **Add License**.
5. In the dialog box that opens, enter the license key and site message provided to you by One Identity.
6. Click **OK**.

For more information on the product licensing, see the *Defender Administrator Guide*.

## Getting started with Defender 5.9.3

For installation instructions, see the *Defender Administrator Guide*.

## 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. It supports bidirectional writing (Arabic and Hebrew). The release supports Complex Script (Central Asia – India, Thailand).

The release is localized to the following languages: German.

This release has the following known capabilities or limitations: Only the Web-based Defender Self-Service Portal has been translated to German.

## 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> or call +1-800-306-9329.

## Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at <https://support.oneidentity.com/>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos at [www.YouTube.com/OneIdentity](http://www.YouTube.com/OneIdentity)
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

# Third-party contributions

This product contains some third-party components (listed below). Copies of their licenses may be found at referencing <https://www.oneidentity.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (\*) is available at <http://opensource.quest.com>.

**Table 17: List of Third-Party Contributions**

<b>Component</b>	<b>License or Acknowledgement</b>
ASP.NET MVC 4	<b>License:</b> Apache 2.0
IZPack Installer 4.3.5	<b>License:</b> Apache 2.0
Log4Net 1.2.10	Copyright © 2004 Apache Software Foundation <b>License:</b> Apache 2.0
QrCode.Net 0.4	Copyright © 2011 George Mamaladze <b>License:</b> MIT
QT 4.7.1*	Copyright © 2010 Nokia Corporation <b>License:</b> LGPL (GNU Lesser General Public License) 2.1



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One Identity LLC.  
Attn: LEGAL Dept  
4 Polaris Way  
Aliso Viejo, CA 92656

Refer to our Web site (<http://www.OneIdentity.com>) for regional and international office information.




### Patents

One Identity is proud of our advanced technology. Patents and pending patents may apply to this product. For the most current information about applicable patents for this product, please visit our website at <http://www.OneIdentity.com/legal/patents.aspx>.

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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.