

One Identity Defender 6.5.1

Release Notes

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

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About One Identity Defender 6.5.1

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.

See [New features](#).

New features

New feature in Defender 6.5.1:

- **Multi point authentication:** With the latest update, users now have the flexibility to choose from multiple mobile service providers for SMS token authentication via the OneLogin portal. The default authentication option will be assigned to mobile providers configured within Defender.

Resolved issues

The following is a list of issues addressed in 6.5.1 release.

Table 1: Defender Security Server resolved issues

Resolved Issue	Issue ID
Fixed an issue where high resource usage of CPU (up to 24 - 25%) with accounting Enabled in specific radius attribute.	387617
Updated to latest Firebase HTTP v1 API, enhancing security measures to enable Push Notification functionality within the Defender Soft Token app	421456

Table 2: Defender Security Server resolved issues

Resolved Issue	Issue ID
Update Log4j.dll to latest stable version	452977
Update 7za and NewtonSoft.json to latest stable version	414420
Update Log4net.dll to latest stable version	414419

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 3: General known issues

Known Issue	Issue ID
<p>Push notification authentication flows do not work properly on ADFS client.</p> <p>Workaround Push notification can be disabled. Alternatively, user can enter passcode from token manually on passcode field to login.</p>	406536
<p>Push notification timeout flows should not fail for EAP with radius proxy when user has more than 2 tokens</p> <p>Workaround Push notification can be disabled for the EAP client. Alternatively, user could be restricted to use only 2 tokens while using push notification with EAP client. If both push notification and more than 3 tokens must be used then user can login by restarting the DSS service and subsequently the authentication process.</p>	408220
<p>MS token displays 'Bad response' error after performing reset operation on the token.</p> <p>Workaround: Use OATH Compliant tokens as those are not affected by this issue and are considered counter-based. If user must use Google Authenticator (TOTP) or Microsoft Authenticator (Time based), then they would have to delete the existing token and program a new token.</p>	401643
<p>FIDO2 registration and authentication screens do not load when defender is used as proxy and the next requests are rejected.</p>	394549
<p>On radius proxy environments certain push notification flows do not work as expected.</p> <p>Workaround: Push notification can be disabled on radius proxy environments to allow authentication using Defender.</p>	392972
<p>Defender soft token for OneLogin Protect cannot be activated using the activation code.</p> <p>Workaround: Defender soft token for OneLogin Protect can be activated using the QR code from Defender management portal self service.</p>	399821
<p>"Push notification rejected" error is observed for timeout flow on EAP client if user has 3 or more tokens.</p> <p>Workaround: Push notification can be disabled for the EAP client. Alternatively, user could be restricted to use only 2 tokens while using push notification with EAP client.</p>	404010

Known Issue	Issue ID
If both push notification and more than 3 tokens must be used then user can login by restarting the authentication process on timeout.	
<p>Audit trial report does not displays all the data from DSS logs</p> <p>Workaround Logs can be picked from the DSS path or from management portal DSS logs section.</p>	325245
<p>Defender users are unable to login using complex token policy with both FIDO2 and Android/iOS tokens</p> <p>Workaround The user can either remove or disable the FIDO2 tokens or use token only policy.</p>	315618
Unable to register the FIDO2 token using Firefox browser	315541
<p>Users see a blank token when the FIDO2 token is programmed and deleted by the admin</p> <p>Workaround Restart the DSS service.</p>	316375
Windows 2022 EAP client failed to connect with the error "wlanapi.dll" not found	300642
<p>Desktop login offline authentication shows the Windows login logo spinning before going back to the login screen.</p> <p>Workaround Increase the IdleTimeOut for Windows Logon UI by creating the registry key below:</p>	
<ul style="list-style-type: none"> • Path: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Authentication\LogonUI • Add a DWORD key named: IdleTimeOut • Set the decimal value to: 240000 (which equals 240 seconds) 	339090
This setting can also be deployed via Microsoft group policy, please consult with Microsoft's documentation on updating machine settings via GPOs.	
<p>When 2012 R2 Server or Windows 8 machine is used to set up DDL component with Soft token for iOS/Android, Resend button and field to enter passcode/ "push" keyword will not be available if push notification times out.</p> <p>The user needs to restart the authentication process by providing username and password.</p>	298022

Known Issue	Issue ID
<p>On Hyper V DDL client with Soft token for iOS/Android, certain policies are displaying incorrect message on UI upon push notification timeout if username format used is - "domain\username".</p> <p>Workaround Enter "username" instead of "domain\username" in the user name field.</p>	298121
<p>When 2012 R2 server or Windows 8 machine is used to set up DDL component with Soft token for iOS/Android, then any complex policy combination with token along with Defender/Active Directory password is not supported.</p>	297740
<p>Error message is displayed when service account is configured using UPN format in Defender Management Portal.</p> <p>Workaround Use sAMAccountName format instead of UPN format.</p>	122498
<p>While installing Defender Soft Token for Java on Windows OS, shortcuts were not created in the location specified during installation.</p> <p>Workaround Launch Defender Soft Token for Java from the installation folder.</p>	141508
<p>Authentication to GC/DC is failing until the Defender Security Server Service is restarted.</p> <p>Workaround Restart Defender Security Server service manually.</p>	142261
<p>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.</p>	TFS784380
<p>When trying to authenticate with the Defender ISAPI Agent, the following error occurs even if a valid token response is entered: Error Message - <i>Invalid token response. Enter a valid token response</i></p> <p>Workaround 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.</p>	TFS783463
<p>The user is not allowed to log in to the system when the group name is renamed in Active Directory.</p> <p>Workaround The Admin user must log into the client machine, remove and add the group from Defender Desktop Login configuration tool (GinaConfig.exe).</p>	TFS781927
<p>If Test connection automatically setting in the DSS configuration is</p>	TFS712795

Known Issue	Issue ID
<p>enabled, a very large number of DSS logs may be generated.</p> <p>Workaround</p> <ul style="list-style-type: none"> • Workaround 1: Disable the 'Test connection automatically' setting. • Workaround 2: Make sure you have enough space for DSS log files, and periodically delete old log files. 	
<p>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.</p> <p>Workaround</p> <p>Make sure that no other tokens are assigned to the user, if they are using the GrIDSure token for authentication.</p>	TFS723423
<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>Workaround</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>	TFS588772
<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>Workaround</p> <p>Do one of the following:</p>	TFS366713
<ol style="list-style-type: none"> 1. Allow users to change their expired passwords using some other means. 2. Change the Defender security policy to use a SAM account name or UPN for authentication. 	
<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>Workaround</p> <p>Switch the user to use the default UPN suffix during the logon procedure.</p>	TFS366722
<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</p>	TFS366743

Known Issue	Issue ID
<p>domain.</p> <p>Workaround Install the VIP credential certificate in the child domain.</p>	
<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>Workaround Edit the corresponding security policy object in the Administration Console and enable expiration of the Defender Password.</p>	TFS366794
<p>To change the user ID setting on an access node, the DSS Service must be restarted.</p> <p>Workaround Restart the Defender Security Server service. You can use the Defender Security Server Configuration utility to do this.</p>	TFS366822
<p>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."</p> <p>Workaround This error message indicates that you cannot log on as a local user without Defender authentication.</p>	TFS366824
<p>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.</p> <p>Workaround Make sure that users who are assigned a token with a PIN do not have a GrIDSure token assigned to them.</p>	TFS366941
<p>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.</p> <p>Workaround Use only a single instance of Defender Administration Console and close the multiple instances.</p>	TFS417432
<p>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.</p> <p>Workaround This behavior is due to the replication latency in Active Directory. View the</p>	TFS417457

Known Issue	Issue ID
list of tokens after the changes have been replicated.	
<p>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.</p> <p>Workaround This behavior is due to the replication latency in Active Directory. View the list of tokens after the changes have been replicated.</p>	TFS417714
<p>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.</p> <p>Workaround When you unlock an account locked by Defender, the violation count is automatically reset as well.</p>	TFS420395
<p>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.</p> <p>Workaround Navigate to the Management Portal Administration user interface and configure the service account.</p>	TFS421707
<p>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.</p> <p>Workaround Do either of the following:</p> <ol style="list-style-type: none"> 1. Use the value on the diagram. 2. Reload the web page (CTRL+F5) to update the value in the tooltip. 	TFS421715
<p>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.</p> <p>Workaround Use the values in the Defender Administration Console, these are the correct values.</p>	TFS429274
<p>When you program mobile software tokens using the Defender Integration Pack for Active Roles, the option to program the tokens in challenge-</p>	TFS431278

Known Issue	Issue ID
<p>response mode is available. Selecting this option may produce an error.</p> <p>Workaround Defender software tokens for mobile devices currently do not support challenge-response mode. Ignore this option.</p>	
<p>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.</p> <p>Workaround If you need to run a 32-bit web site, consider running it on a 32-bit computer with a 32-bit IIS and install the 32-bit version of the Defender ISAPI Agent.</p>	TFS435240
<p>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."</p> <p>Workaround This error message means that the verification code has expired. Start over by requesting a software token.</p>	TFS436701
<p>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.</p> <p>Workaround Program the Soft Token for Windows in synchronous mode.</p>	TFS439473
<p>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.</p> <p>Workaround Launch the Soft Token for Windows, and enter the passcode in the VPN client manually.</p>	TFS441655
<p>Users who are directly assigned to an access node cannot be moved to a different OU.</p> <p>Workaround 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.</p>	TFS452765
<p>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.</p> <p>Workaround</p>	TFS462928

Known Issue	Issue ID
Use the EAP Agent installed on a computer running an operating system other than Windows 10.	
<p>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.</p> <p>Workaround Open the command prompt as administrator and run the following command: java -jar <path to uninstaller file></p>	TFS487077
<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> <p>Workaround Re-enter and re-confirm the service account password to enable the 'Save' button.</p>	TFS504067
<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> <p>Workaround Use a different supported browser.</p>	TFS504432
<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> <p>Workaround Make sure that the DSS is available and retry the login attempt.</p>	TFS591408
<p>When Web Service API is the only Defender component installed on a computer, it does not work.</p> <p>Workaround Install Defender Management Shell or Management Portal component on the same computer.</p>	TFS597986
<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> <p>Workaround Only the latest version gets installed. You can ignore the old version that is listed.</p>	TFS598397
<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</p>	TFS598605

opened on a device different from the original one.

Workaround

On the final page of the Program Token wizard, click **Back**, click **Next**, and then click **Finish**.

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 iOS](#)
- [Defender Soft Token for Java](#)
- [Defender Soft Token for Windows](#)

Defender Security Server

Table 4:
Defender Security Server system requirements

Requirement	Details
Processor	2 GHz or faster, x86 or x64 architecture
Memory (RAM)	4 GB

Requirement	Details
Hard disk space	40 GB 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"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012
Additional Software	<ul style="list-style-type: none"> • Microsoft Visual C++ 2019 Redistributable Package (installed automatically together with the Defender Security Server) • Microsoft .NET Framework 4.8 (installed automatically together with the Defender Security Server)

Defender Administration Console

Table 5:
Defender Administration Console system requirements

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	512 MB or more
Hard disk space	2 GB 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"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2

Requirement	Details
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- Windows Server 2012
- Windows 11 (32- and 64-bit editions)
- Windows 10 (32- and 64-bit editions)
- Windows 8.1 (32- and 64-bit editions)

Additional software	<ul style="list-style-type: none">• Active Directory Users and Computers (ADUC) tool• Microsoft Visual C++ 2019 Redistributable Package (installed automatically together with the Defender Administration Console)• Microsoft .NET Framework 4.8 (installed automatically together with the Defender Administration Console)
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Desktop Login

Table 6:
Desktop Login system requirements

Requirement	Details
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Processor	1.4 GHz or faster, x86 or x64 architecture
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Memory (RAM)	1 GB or more
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Hard disk space	20 MB or more
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Your computer must be running one of the following operating systems (with or without any Service Pack):

Operating system	<ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012• Windows 11 (32- and 64-bit editions)• Windows 10 (32- and 64-bit editions)• Windows 8.1 (32- and 64-bit editions)
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Requirement	Details
Additional Software	Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the Defender Desktop Login)

Desktop Login Group Policy

Table 7:
Desktop Login Group Policy system requirements

Requirement	Details
Processor	1.4 GHz or faster, x86 or x64 architecture
Memory (RAM)	1 GB 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"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 • Windows 11 (32- and 64-bit editions) • Windows 10 (32- and 64-bit editions) • Windows 8.1 (32- and 64-bit editions)
Additional Software	Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the Desktop Login Group Policy)

Defender Management Portal

Table 8:
Defender Management Portal 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	<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">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012
Additional software	<ul style="list-style-type: none">• 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)• Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the Defender Management Portal)• Microsoft .NET Framework 4.8 (installed automatically together with the Defender Management Portal)• To access the Defender Management Portal, you can use any of the following Web browsers:<ul style="list-style-type: none">• Chrome 15 or later• Firefox 8 or later• Internet Explorer 9 or later (Internet Explorer run in compatibility mode is not supported)• Opera 11.1 or later• Safari 5.1 or later

Extensible Authentication Protocol (EAP) Agent

Table 9:
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	<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">• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012• Windows 10 (32- and 64-bit editions)• Windows 8.1 (32- and 64-bit editions)• Windows 8 (32- and 64-bit editions)

NOTE: Defender EAP components work only with Windows Server 2012 and Windows 8 client machines.

Defender Integration Pack for Active Roles

Table 10:
Defender Integration Pack for Active Roles system requirements

Requirement	Details
Required software	<ul style="list-style-type: none">• Active Roles v8.1.x, v8.0.x, v7.6.x, v7.5.x• Required Active Roles components:<ul style="list-style-type: none">• Administration Service• Web Interface• Active Roles console

Requirement	Details
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- Defender Administration Console

Your computer must be running one of the following operating systems (with or without any Service Pack):

Operating system	<ul style="list-style-type: none">• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012
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Additional software	<ul style="list-style-type: none">• Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the Defender Integration Pack for Active Roles)• Microsoft .NET Framework 4.8 (installed automatically together with the Defender Integration Pack for Active Roles)
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ISAPI Agent

Table 11:
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
	Your computer must be running one of the following operating systems (with or without any Service Pack):
Operating system	<ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012

Requirement	Details
Microsoft Internet Information Services (IIS)	<p>IIS 10.0, 8.5, 8.0, 7.5, or 7.0 with the following role services enabled:</p> <ul style="list-style-type: none"> • Web Server/Application Development <ul style="list-style-type: none"> • ASP • ISAPI Filters • Management Tools/IIS 6 Management Compatibility <ul style="list-style-type: none"> • IIS 6 Metabase Compatibility <p>The above mentioned roles services are activated automatically by the setup. The Web Server (IIS) role is not installed by the setup.</p>
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"> • Chrome 15 or later • Firefox 8 or later • Internet Explorer 9 or later (Internet Explorer run in compatibility mode is not supported) • Opera 11.1 or later • Safari 5.1 or later
Additional Software	<p>Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the ISAPI Agent)</p>

Defender Management Shell

Table 12:
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	Your computer must be running one of the following operating systems (with or without any Service Pack):

Requirement	Details
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- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows 11 (32- and 64-bit editions)
- Windows 10 (32- and 64-bit editions)
- Windows 8.1 (32- and 64-bit editions)

Additional software	
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- Windows PowerShell 3.0 or later
- Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the Defender Management Shell)
- Microsoft .NET Framework 4.8 (installed automatically together with the Defender Management Shell)

VPN Integrator

Table 13:
VPN Integrator system requirements

Requirement	Details
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Processor	1.4 GHz or faster, x86 or x64 architecture
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Memory (RAM)	512 MB or more
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Hard disk space	10 MB or more
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Your computer must be running one of the following operating systems (with or without any Service Pack):

- | | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating system | <ul style="list-style-type: none">• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012 |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Requirement Details

- Windows 10 (32- and 64-bit editions)
- Windows 8.1 (32- and 64-bit editions)
- Windows 8 (32- and 64-bit editions)

Client SDK

Table 14:
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	<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">• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012• Windows 10 (32- and 64-bit editions)• Windows 8.1 (32- and 64-bit editions)• Windows 8 (32- and 64-bit editions)
Additional Software	<ul style="list-style-type: none">• Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with Client SDK)

Web Service API

Table 15:
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">• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012• Windows 10 (32- and 64-bit editions)• Windows 8.1 (32- and 64-bit editions)• Windows 8 (32- and 64-bit editions)
Additional Software	<ul style="list-style-type: none">• Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with the Web Service API)• Microsoft .NET Framework 4.8 (installed automatically together with the Web Service API)

Defender Soft Token for Android™

Requires Android 4.4 (8.0 for push notification) or later.

Defender Soft Token for iOS

Requires one of the following:

- iOS 9.0 or later for iPhone (iOS 10.0 or later to enable the push notification).
- iPadOS 13 or later, for iPad.

Defender Soft Token for Java

- Requires JRE version to Java Runtime Environment to 1.8 or later
- Requires one of the following operating systems (with or without any Service Pack):
 - Windows Server 2022
 - Windows Server 2019
 - Windows Server 2016
 - Windows Server 2012 R2
 - Windows Server 2012
 - Windows 11 (32- and 64-bit editions)
 - Windows 10 (32- and 64-bit editions)
 - Windows 8.1 (32- and 64-bit editions)
 - Mac OS X
 - Linux/Unix

Defender Soft Token for Windows

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

Table 16:
Defender Soft Token system requirements

Requirement	Details
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"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 • Windows 11 (32- and 64-bit editions) • Windows 10 (32- and 64-bit editions) • Windows 8.1 (32- and 64-bit editions)
Additional software	<ul style="list-style-type: none"> • Microsoft Visual C++ Redistributable for Visual Studio 2019 (installed automatically together with Defender Soft Token for Windows)

Upgrade and compatibility

One Identity Defender is upgradeable from version 6.1.0 or 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 and follow the instructions mentioned on the screen to complete the upgrade process.

NOTE:

- If your current Defender version is lower than version 6.1.0, it is recommended to upgrade to version 6.1.0 or later.
- For Defender versions older than 6.1.0, upgrading to Defender 6.1.0 or above requires the **Schema Admin** role due to the inclusion of schema extension from version 6.1.0 onwards.

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 Administration Guide*.

Getting started with Defender 6.5.1

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

More Resources

For more information on the latest product information and other helpful resources, see <https://www.oneidentity.com/products/defender/>.

For the most recent documents and product information, see

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 and Russian.

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

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

Component	License or Acknowledgement
IZPack Installer 4.3.5	Copyright © 2001 – 2018 Julien Ponge, René Krell and the IzPack contributors This component is governed by Apache License
Log4Net 2.0.8	Copyright 2004-2017 The Apache Software Foundation This component is governed by Apache License
Newtonsoft.Json.Net	Copyright (c) 2007 James Newton-King

Component	License or Acknowledgement
12.0.3	This component is governed by MIT Json.NET N/A
QrCode.Net 0.4.1.2	Copyright (c) 2011 George Mamaladze This component is governed by MIT N/A
QT 4.7.1*	Copyright © 2010 Nokia Corporation and/or its subsidiary(-ies). Contact: Nokia Corporation (qt-info@nokia.com) This component is governed by LGPL (GNU Lesser General Public License) 2.1
cpprestsdk 2.10.15	Copyright (c) MIT 2020 This component is governed by MIT N/A 1.0
zlib 1.2.11	Copyright (c) 1995-2012 Jean-loup Gailly and Mark Adler This component is governed by zlib
libcurl 7.74.0.0	Copyright (c) 1996 - 2010, Daniel Stenberg. All rights reserved. This component is governed by curl