

One Identity Active Roles 7.5.4

Release Notes

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These release notes provide information about the changes, enhancements, and known or resolved issues of Active Roles 7.5.4. For the most recent documents and product information, and for the release notes and documentation of earlier product releases, see the [online Active Roles technical documentation](#) on the One Identity Support Portal.

About this release

Active Roles 7.5.4 is a patch release resolving a potential breaking change in the Active Roles Console, related to the **Exchange Web Services** mail settings and caused by the deprecation of Microsoft Basic authentication, effective from 2023. For more information, see [Enhancements](#).

- For more information on the list of enhancements, see [Enhancements](#).
- For more information on the list of known issues, see [Known issues](#).

Supported platforms

Active Roles 7.5.4 has the following changes to system requirements compared to Active Roles 6.9.0:

- Windows Server 2016 or a later version of the Windows Server operating system is required to run the Administration Service or Web Interface.
- The following SQL Server versions are supported: Microsoft SQL Server 2019, 2017, 2016 and 2014.

- You can use Active Roles to manage Exchange recipients on Exchange Server 2019, 2016, or 2013.

NOTE: Microsoft Exchange 2013 CU11 is no longer supported. For more information, refer to [Knowledge Base Article 202695](#).

- Internet Explorer 7, 8, 9, and 10 are no longer supported for the Web Interface access. You can use the following Web browsers to access the Web Interface:
 - Internet Explorer 11
 - Google Chrome 61 (or newer)
 - Microsoft Edge 79 (or newer), based on Chromium
 - Mozilla Firefox 36 (or newer)
- The Active Roles Web Interface is optimized for screen resolutions of 1280x800 or higher.

The minimum supported screen resolution is 1024x768.

For more information, see [System requirements](#).

Enhancements

The following is a list of enhancements implemented in Active Roles 7.5.4.

Table 1: General Active Roles enhancements

Enhancement	Issue ID
<p>In preparation to the deprecation of Microsoft Exchange Online Basic authentication, the Exchange Web Services mail settings in the Active Roles Console now support Modern authentication. The affected settings are located in the following locations:</p> <ul style="list-style-type: none"> • Configuration > Server Configuration > Mail Configuration > Default Mail Settings > Mail Setup > Settings for > Exchange Web Services • Configuration > Server Configuration > Mail Configuration > New > Mail Configuration > New Mail Configuration Wizard > Settings for > Exchange Web Services 	323131
<p>NOTE: Although Basic authentication is deprecated effective from 2023, the Exchange Web Services mail settings of the Active Roles Console will continue supporting Basic authentication for on-premises Exchange Servers.</p>	

Known issues

The following is a list of issues known to exist at the time of release.

Table 2: General known issues

Known Issue	Issue ID
Activating the EnableAntiForgery key (<add key="EnableAntiForgery" value="true"/> in web.config) may cause the following error message:	91977

Session timeout due to inactivity. Please reload the page to continue.

Workaround

Update the **IgnoreValidation** key in the <appSettings> section by adding a property value in lowercase:

1. Open the IIS Manager.
2. In the left pane, under **Connections**, expand the tree view to **Sites > Default Web Site**.
3. Under **Default Web Site**, click on the Active Roles application (ARWebAdmin by default).
4. Double-click **Configuration Editor**.
5. From the **Section** drop-down, select **appSettings**.
6. Find the **IgnoreForValidation** key.
7. Append the comma-separated value to **IgnoreForValidation**, for example: **lowercasecontrolname**.
8. In the right pane, under **Actions**, click **Apply**.
9. Recycle the App pool.

Table 3: Known Issues – Active Roles Configuration Center

Known Issue	Issue ID
When configured for Group and Contacts, the Office 365 and Azure Tenant Selection policy displays additional tabs.	229031
Tenant selection supports selecting only a single tenant.	229030
In the Starling Connect Connection Settings link, clicking Next displays progress, but the functionality is not affected, so the button is not required.	126892

Table 4: Known Issues – Active Roles Console (MMC Interface)

Known Issue	Issue ID
Automation workflow with Office 365 script fails, if multiple workflows share the same script and the script is scheduled to execute at the same time.	200328
Workaround One Identity recommends scheduling the workflows with different scripts or at a different time.	
When a workflow is copied from built-in workflows, it may not be executed as expected.	153539
Azure Group Properties are not available if they are added to the Office 365 Portal or Hybrid Exchange Properties from the forwarding address attribute of Exchange online users.	98186
In Active Roles with the Office 365 Licenses Retention policy applied, after deprovisioning the Azure AD user, the Deprovisioning Results for the Office 365 Licenses Retention policy are not displayed in the same window.	91901
Workaround To view the Deprovisioning Results after deprovisioning the Azure AD user: <ul style="list-style-type: none">• In Active Roles MMC Console, right-click and select Deprovisioning Results.• In the right pane of the Active Roles Web Interface, click Deprovisioning Results.• To refresh the form, press F5.	

Table 5: Known Issues – Active Roles Installer

Known Issue	Issue ID
After upgrading Active Roles, the pending approval tasks are not displayed in the Active Roles Web Interface.	91933

Table 6: Known Issues – Active Roles Synchronization Service

Known Issue	Issue ID
In the Active Roles Synchronization Service, the following new attributes of the AzureAD Connector are currently not supported and cannot be queried via the Microsoft Graph API:	304074

Known Issue**Issue ID**

user	group
aboutMe	allowExternalSenders
birthday	autoSubscribeNewMembers
hireDate	hideFromAddressLists
interests	hideFromOutlookClients
mySite	isSubscribedByMail
officeLocation	unseenCount
pastProjects	acceptedSenders
preferredName	membersWithLicenseErrors
responsibilities	rejectedSenders
schools	hasMembersWithLicenseErrors
skills	
contacts	

This means that although these attributes are visible, they cannot be set in a mapping rule.

After running the **get-qcworkflowstatus** cmdlet in the Synchronization Service, the workflow status is not accurate. 125768

Table 7: Known Issues – Active Roles Web Interface

Known Issue**Issue ID**

In the Active Roles Web Interface, Azure roles are not restored automatically after performing an Undo Deprovision action on a user.	172655
Workaround	
After the Undo Deprovision action is completed, assign the Azure roles to the user manually.	
Active Roles does not support creating Azure groups for existing groups.	117015
Active Roles Web Interface does not support setting the Exchange Online Property of the ProhibitSendQuota value in Storage Quotas .	91905
In the Active Roles Web Interface, when you click Azure > Resource Mailboxes to query room mailboxes after being idle for approximately 15-20 minutes, the Active Roles Web Interface will not list any room mailboxes.	293380

Workaround

Restart the Administration Service.

Trying to reset the password of an Azure user in the Active Roles Web Interface returns the following error message: 293601

```
One or more errors occurred. Http Exception - Status Code Forbidden.  
Reason phrase Forbidden {"error":{"code":Authorization_  
RequestDenied","message":"Insufficient privileges to complete the  
operation"}}
```

This error occurs because of a Microsoft Graph API-related issue, described in the [Authorization_RequestDenied error when you try to change a password using Graph API](#) article of the *Microsoft Azure Troubleshooting* documentation.

Workaround

To solve this problem, assign the **Company Administrator** Office 365 administrative role to Active Roles with the following PowerShell cmdlets:

```
Connect-MsolService  
$displayName = "ActiveRoles"  
$objectId = (Get-MsolServicePrincipal -SearchString $displayName).Ob-  
jectId  
$roleName = "Company Administrator"  
Add-MsolRoleMember -RoleName $roleName -RoleMemberType ServicePrincipal -  
RoleMemberObjectId $objectId
```

System requirements

Before installing Active Roles 7.5.4, 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. Please consult [One Identity's Product Support Policies](#) for more information on environment virtualization.

Before installing Active Roles 7.5.4, ensure that your system meets the following minimum hardware and software requirements, and install the following required software:

NOTE: To run these PowerShell commands, use the 64-bit version of Windows PowerShell.

Requirement	Details
Exchange Online PowerShell V2 module 2.0.3	The Exchange Online PowerShell V2 module version 2.0.3 (or newer) must be installed on the computer(s) running the Administration Service. For installation instructions, see Install and maintain the EXO V2 module in the <i>Microsoft Azure Exchange PowerShell documentation</i> .
Azure AD PowerShell module	The latest version of the Azure Active Directory (AD) PowerShell module must be installed on the computer(s) running the Administration Service. For installation instructions, see Installing the Azure AD Module in the <i>Microsoft Azure PowerShell documentation</i> .
Azure Az PowerShell module 2.5.3	The Azure Az PowerShell module version 2.5.3 (or older) must be installed on the computer(s) running the Administration Service and the Synchronization Service. For installation instructions, see Install the Azure Az PowerShell module in the <i>Microsoft Azure PowerShell documentation</i> .
Microsoft Teams PowerShell module	The latest version of the Microsoft Teams PowerShell module must be installed on the computer running the Administration Service. For installation instructions, see Install Microsoft Teams PowerShell in the <i>Microsoft Teams documentation</i> .
SharePoint Online Management Shell - x64	The SharePoint Online Management Shell must be installed on the computer running the Administration Service. For installation instructions, see Get started with SharePoint Online Management Shell in the <i>Microsoft SharePoint PowerShell documentation</i> .

For the system requirements of each Active Roles component, see the following sections:

- [Administration Service requirements](#)
- [Web Interface requirements](#)
- [Console requirements](#)
- [Management Tools requirements](#)
- [Synchronization Service requirements](#)
 - [Synchronization Service Capture Agent](#)

This section lists the hardware and software requirements for installing and running each of these components.

Hardware requirements

Table 8: Hardware requirements

Requirement	Details
Processor	For Administration Service, Web

Requirement	Details
<p>NOTE: The amount of processors required depends on the total number of managed objects. Depending on the size of the environment, the number of processors required may vary.</p>	<p>Interface, and Synchronization Service, any of the following:</p> <ul style="list-style-type: none"> • Intel 64 (EM64T) • AMD64 • Minimum 2 processors • Processor speed: 2.0 GHz or faster. <p>NOTE: For Synchronization Service, One Identity recommends using a multi-core processor for the best performance.</p> <p>For Console and Management Tools, any of the following:</p> <ul style="list-style-type: none"> • Intel x86 • Intel 64 (EM64T) • AMD64 • Processor speed: 1.0 GHz or faster.
<p>Memory</p> <p>NOTE: The amount of memory required depends on the total number of managed objects. Depending on the size of the environment, the amount of memory required may vary.</p>	<p>Administration Service: A minimum of 4 GB of RAM.</p> <p>Web Interface, Synchronization Service: A minimum of 2 GB of RAM.</p> <p>Console, Management Tools: A minimum of 1 GB of RAM.</p>
<p>Hard disk space</p>	<p>Administration Service, Web Interface, Console, Management Tools: A minimum of 100 MB of free disk space.</p> <p>Synchronization Service: A minimum of 250 MB of free disk space.</p> <p>NOTE: If SQL Server and Synchronization Service are installed on the same computer, the amount required depends on the size of the Synchronization Service database.</p>
<p>Operating system</p> <p>NOTE: Active Roles is not supported on Windows Server Core mode setup.</p>	<p>You can install any of the Active Roles components on a computer running:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2022,

Requirement	Details
	<p>Standard or Datacenter edition.</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2019, Standard or Datacenter edition. • Microsoft Windows Server 2016, Standard or Datacenter edition. <p>In addition, you can install Console and Management Tools on a computer running:</p> <ul style="list-style-type: none"> • Microsoft Windows 10, Professional or Enterprise edition, 32-bit (x86) or 64-bit (x64). • Microsoft Windows 8.1, Professional or Enterprise edition, 32-bit (x86) or 64-bit (x64).

Administration Service requirements

This section lists the system requirements of the Active Roles Administration Service.

All Active Roles components require:

- Microsoft .NET Framework 4.7.2. For more information, see [Installing .NET Framework for developers](#) in the *Microsoft .NET documentation*.
- Visual C++ 2017 Redistributable.

Table 9: Administration Service requirements

Requirement	Details
SQL Server	<p>You can host the Active Roles database on:</p> <ul style="list-style-type: none"> • Microsoft SQL Server 2019, any edition. • Microsoft SQL Server 2017, any edition. • Microsoft SQL Server 2016, any edition. • Microsoft SQL Server 2014, any edition, 32-bit (x86) or 64-bit (x64), with or without any Service Pack. • Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL). <p>Active Roles also supports Azure SQL hosted database.</p>
Windows Management Framework	<p>On all supported operating systems, the Active Roles Administration Service requires Windows Management Framework 5.1 (available for download here).</p>

Requirement	Details
Operating system on domain controllers	<p>Active Roles retains all features and functions when managing Active Directory on domain controllers running any of these operating systems, any edition, with or without any Service Pack:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016 <p>Active Roles deprecates managed domains with the domain functional level lower than Windows Server 2008 R2. One Identity recommends that you raise the functional level of the domains managed by Active Roles to Windows Server 2008 R2 or higher.</p>
Exchange Server	<p>Active Roles is capable of managing Exchange recipients on:</p> <ul style="list-style-type: none"> • Microsoft Exchange Server 2019 • Microsoft Exchange Server 2016 • Microsoft Exchange Server 2013 <p>NOTE: Microsoft Exchange 2013 CU11 is no longer supported. For more information, see Knowledge Base Article 202695.</p>

Web Interface requirements

This section lists the system requirements of the Active Roles Web Interface.

All Active Roles components require:

- Microsoft .NET Framework 4.7.2. For more information, see [Installing .NET Framework for developers](#) in the *Microsoft .NET documentation*.
- Visual C++ 2017 Redistributable.

Table 10: Web Interface requirements

Requirement	Details
Internet Services	<p>On Windows Server 2016, Windows Server 2019, and Windows Server 2022, the Active Roles Web Interface requires the Web Server (IIS) server role with the following role services:</p> <ul style="list-style-type: none"> • Web Server/Common HTTP Features/ • Default Document • HTTP Errors • Static Content • HTTP Redirection

Requirement Details

- Web Server/Security/
- Request Filtering
- Basic Authentication
- Windows Authentication
- Web Server/Application Development/
- .NET Extensibility
- ASP
- ASP.NET
- ISAPI Extensions
- ISAPI Filters
- Management Tools/IIS 6 Management Compatibility/
- IIS 6 Metabase Compatibility

Internet Information Services (IIS) must be configured to provide **Read/Write** delegation for the following features:

- Handler Mappings
- Modules
- Use **Feature Delegation** in Internet Information Services (IIS) Manager to confirm that these features have their delegation set to **Read/Write**.

Web browser	<p>You can access Active Roles Web Interface using:</p> <ul style="list-style-type: none">• Mozilla Firefox 36 (or newer) on Windows.• Google Chrome 61 (or newer) on Windows.• Microsoft Edge 79 (or newer), based on Chromium on Windows 10. <p>You can use a later version of Firefox and Google Chrome to access the Active Roles Web Interface. However, the Active Roles Web Interface was tested only with the browser versions listed above.</p>
Minimum screen resolution	<p>The Active Roles Web Interface is optimized for screen resolutions of 1280x800 or higher.</p> <p>The minimum supported screen resolution is 1024x768.</p>

Console requirements

This section lists the system requirements of the Active Roles Console (MMC Interface). All Active Roles components require:

- Microsoft .NET Framework 4.7.2. For more information, see [Installing .NET Framework for developers](#) in the *Microsoft .NET documentation*.
- Visual C++ 2017 Redistributable.

Table 11: Console (MMC Interface) requirements

Requirement	Details
Web browser	The Active Roles Console requires Microsoft Edge 79 (or newer), based on Chromium.

Management Tools requirements

The Active Roles Management Tools is a composite component that includes the Active Roles Management Shell, ADSI Provider, and SDK. On a 64-bit (x64) system, the Active Roles Management Tools also include the Active Roles Configuration Center.

This section lists the system requirements of the Active Roles Management Tools.

All Active Roles components require:

- Microsoft .NET Framework 4.7.2. For more information, see [Installing .NET Framework for developers](#) in the *Microsoft .NET documentation*.
- Visual C++ 2017 Redistributable.

Table 12: Management Tools requirements

Requirement	Details
Windows Management Framework	On all supported operating systems, the Active Roles Management Tools require Windows Management Framework 5.1 (available for download here).
Remote Server Administration Tools (RSAT)	To manage Terminal Services user properties by using the Active Roles Management Shell, Management Tools require Remote Server Administration Tools (RSAT) for Active Directory. For more information on installing the RSAT version applicable to your operating system, see Remote Server Administration Tools (RSAT) for Windows in the <i>Microsoft Documentation</i> .

Synchronization Service requirements

This section lists the system requirements of the Active Roles Synchronization Service.

All Active Roles components require:

- Microsoft .NET Framework 4.7.2. For more information, see [Installing .NET Framework for developers](#) in the *Microsoft .NET documentation*.
- Visual C++ 2017 Redistributable.

Table 13: Synchronization Service requirements

Requirement	Details
SQL Server	<p>You can host the Active Roles Synchronization Service database on:</p> <ul style="list-style-type: none"> • Microsoft SQL Server 2019, any edition. • Microsoft SQL Server 2017, any edition. • Microsoft SQL Server 2016, any edition. • Microsoft SQL Server 2014, any edition, 32-bit (x86) or 64-bit (x64), with or without any Service Pack. <p>NOTE: The Active Roles Synchronization Service does not support Azure SQL hosted database.</p>
Windows Management Framework	<p>On all supported operating systems, the Active Roles Synchronization Service requires Windows Management Framework 5.1 (available for download here).</p>
Supported connections	<p>The Active Roles Synchronization Service can connect to:</p> <ul style="list-style-type: none"> • Microsoft Active Directory Domain Services with the domain or forest functional level of Windows Server 2016 or higher. • Microsoft Active Directory Lightweight Directory Services running on any Windows Server operating system supported by Microsoft. • Microsoft Exchange Server version 2019, 2016, or 2013. <p>NOTE: Microsoft Exchange 2013 CU11 is no longer supported. For more information, see Knowledge Base Article 202695.</p> <ul style="list-style-type: none"> • Microsoft Lync Server version 2013 with limited support. • Microsoft Skype for Business 2019, 2016 or 2015. • Microsoft Windows Azure Active Directory using Microsoft Graph API version 1.0. • Microsoft Office 365 directory. • Microsoft Exchange Online service. • Microsoft Skype for Business Online service. • Microsoft SharePoint Online service. • Microsoft SQL Server, any version supported by Microsoft. • Microsoft SharePoint 2019, 2016, or 2013. • Active Roles version 7.4.3, 7.4.1, 7.3, 7.2, 7.1, 7.0, and 6.9 • One Identity Manager version 7.0 (D1IM 7.0)

Requirement Details

	<ul style="list-style-type: none">• One Identity Manager version 8.0• Support for Generic LDAP Connector, MySQL Connector, Open LDAP Connector, IBM Db2 Connector, Salesforce Connector, Service now Connector, and IBM RACF Connector.• Support for Oracle Database, Oracle Database User Accounts, Oracle Unified Directory, Micro Focus NetIQ Directory, and IBM AS/400 connectors.• Data sources accessible through an OLE DB provider• Delimited text files
Legacy Active Roles ADSI Provider	To connect to Active Roles version 6.9, see the Active Roles ADSI Provider of <i>Quick Start Guide</i> for the appropriate Active Roles version.
One Identity Manager API	To connect to One Identity Manager 7.0, One Identity Manager Connector must be installed on the computer running the Active Roles Synchronization Service. This connector works with RESTful web service and SDK installation is not required.
Internet Connection	To connect to cloud directories or online services, the computer running the Active Roles Synchronization Service must have a reliable connection to the Internet.

Synchronization Service Capture Agent

This section lists the system requirements of the Active Roles Synchronization Service Capture Agent.

All Active Roles components require:

- Microsoft .NET Framework 4.7.2. For more information, see [Installing .NET Framework for developers](#) in the *Microsoft .NET documentation*.
- Visual C++ 2017 Redistributable.

Table 14: Synchronization Service Capture Agent requirements

Requirement	Details
Additional Requirements	<p>To synchronize passwords from an Active Directory domain to some other connected data system, you must install the Active Roles Synchronization Service Capture Agent on all domain controllers in the source Active Directory domain.</p> <p>The domain controllers on which you install the Active Roles Synchronization Service Capture Agent must run one of the following operating systems with or without any Service Pack (both x86 and x64</p>

Requirement Details

platforms are supported):

- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016

For more information, see the *Active Roles Synchronization Service Administration Guide*.

Product licensing

Use of this software is governed by the Software Transaction Agreement found at www.oneidentity.com/legal/sta.aspx. This software does not require an activation or license key to operate.

The product usage statistics can be used as a guide to show the scope and number of managed objects in Active Roles.

Upgrade and compatibility

CAUTION: You must run the Active Roles Setup in Administrator Mode. Failing to do so will result in Active Roles not starting up at all.

You can upgrade any 7.x version of Active Roles to Active Roles 7.5.4.

For instructions on how to upgrade from an earlier version of Active Roles, see the *Active Roles Quick Start Guide*.

NOTE: Consider the following before upgrading to a new version of Active Roles:

- Components of an earlier Active Roles version may not work with the components of the new version you are upgrading to.
- Custom solutions (scripts or other modifications) that rely on Active Roles features may fail to work after an upgrade due to compatibility issues. Therefore, before starting the upgrade, test your existing solutions with the new version of Active Roles in a lab environment to verify that your custom solutions will continue to work.

TIP: When upgrading to a new Active Roles version, One Identity recommends to upgrade the Active Roles Administration Service first, and the client components (Active Roles Console and Active Roles Web Interface) afterwards.

Upgrade and installation instructions

For instructions on how to upgrade from an earlier version of Active Roles or how to install and initially configure Active Roles, see the *Active Roles Quick Start Guide*.

For special considerations regarding the installation of Active Roles 7.5.4, see the following information.

Changes related to Azure tenants

NOTE: If your organization has any Azure tenants that are managed with Active Roles, you need to reauthenticate and reconsent them after installing Active Roles 7.5.4. Otherwise, Active Roles will not receive the required permissions for managing existing Azure tenants, and tenant administration in Active Roles 7.5.4 will not work correctly. For more information, see *Reconfiguring Azure tenants during upgrade configuration* in the *Active Roles Quick Start Guide*.

Changes related to Active Roles Synchronization Service

NOTE: Active Roles 7.5 introduced support for Modern Authentication in Azure BackSync workflows of the Active Roles Synchronization Service. After upgrading to Active Roles 7.5 or 7.5.4 from an earlier version, if you previously had an Azure BackSync workflow configured, you will be prompted to reconfigure it in the Active Roles Synchronization Service Console.

⚠ CAUTION: If you previously had an Azure BackSync workflow configured in Active Roles Synchronization Service, and you use more than one Azure Active Directory (Azure AD) service in your deployment, you must specify the Azure AD for which you want to configure Azure BackSync. Failure to do so may either result in directory objects not synchronized at all, or synchronized to unintended locations.

For more information on how to specify the Azure AD used for back-synchronization, see *Configuring automatic Azure BackSync* in the *Active Roles Synchronization Service Administration Guide*.

More resources

Additional information is available from the following resources:

- Online product documentation (<https://support.oneidentity.com/active-roles/>)
- Active Roles community (<https://www.oneidentity.com/community/active-roles>)

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.

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

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

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Legend

 **WARNING:** A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.

 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

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 Acknowledgment
Active Directory Authentication Library 3.13.1	Copyright (c) Microsoft Corporation. All rights reserved. Licensed under the MIT License (the "License"); Open Source Initiative OSI - The MIT License (MIT) 2012
ASP.NET Ajax 4.0	Microsoft Permissive License (Ms-PL) N/A
Bootstrap 3.2	MIT N/A
jquery 3.4.1	Copyright JS Foundation and other contributors, https://js.foundation/ The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. MIT N/A
jQuery UI 1.12.1	Copyright 2007, 2014 jQuery Foundation and other contributors, https://jquery.org/ MIT N/A
Microsoft ASP.NET WebAPI 5.0.0	Microsoft .Net Framework 4.5
Microsoft Exchange Web Services (EWS) Managed API 2.2	Microsoft Exchange Web Services Managed API 2.2
Microsoft Unity 3.5	Apache 2.0
Microsoft.aspNet.SignalR.Core 2.3.0	MICROSOFT .NET LIBRARY 1.0
Microsoft.IdentityModel.Clients.ActiveDirectory 3.19.8	Copyright (c) Microsoft Corporation MIT N/A
Microsoft.IdentityModel.Logging 5.2.2	Copyright (c) Microsoft Corporation. All rights reserved. MIT N/A
Newtonsoft.Json 12.0.3	Copyright 2007 James Newton-King Copyright (c) James Newton-King 2008 Copyright (c) James Newton-King 2008 MIT Template 2020
NLog 3.1	Copyright (c) 2004-2011 Jaroslaw

Component	License or Acknowledgment
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WCF Data Services 5.8.4	<p>Copyright (c) 2018 Microsoft. All rights reserved.</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>MICROSOFT WCF DATA SERVICES N/A</p>

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Microsoft .Net Framework 4.5

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