

## **Active Roles 8.1.3**

### **Release Notes**

#### 16 August 2023, 10:30

These release notes provide information about the Active Roles 8.1.3 release. For the most recent documents and product information, see Active Roles Technical Documents on the *One Identity support portal*.

### **About this release**

Active Roles 8.1.3 is a patch release with no new functionality.

This release fixes a potential breaking change due to the deprecation of the Remote PowerShell (RPS) protocol in Exchange Online PowerShell, effective from June 2023.

- For more information on this breaking change and its related enhancements, see Enhancements.
- For more information on other resolved issues fixed in this release, see Resolved issues.
- For more information on the list of known issues, see Known issues.

### **Enhancements**

The following is a list of enhancements implemented in Active Roles 8.1.3.

#### **Table 1: General Active Roles enhancements**

Enhancement	Issue
	ID

In preparation for the deprecation of the Remote PowerShell (RPS) protocol in 402974 Exchange Online PowerShell, Active Roles 8.1.3 is updated to:

- Use Exchange Online PowerShell v3 instead of earlier versions.
- Use cmdlet Connect-ExchangeOnline instead of the deprecated cmdlet New-PSSession when establishing Exchange Online connections.

For more information, see Announcing Deprecation of Remote PowerShell (RPS) Protocol in Exchange Online PowerShell in the *Microsoft Tech Community* portal.

NOTE: You can continue using cmdlet *New-PSSession* to connect to on-premises Exchange Server deployments.

#### **Table 2: Active Roles Synchronization Service enhancements**

Enhanceme	ent				Issue ID
	_		 		 

Updated the Generic SCIM Connector with the following enhancements:

404915

- Added support for the following Starling Connect connectors and connector versions:
  - Pipedrive 1.0
  - ServiceNow 2.0
  - SuccessFactors HR 9.0
  - WorkdayHR 3.0
  - Zendesk 1.0

NOTE: While the **Generic SCIM Connector** may work with other SCIM 2.0-based Starling Connect connectors, One Identity tested it to work only with these connectors and connector versions.

- Added new Query only synced attributes setting to support querying only attributes that are specifically defined for synchronization.
- Added new Starling cursor-based pagination setting to support Starling Connect connectors using cursor-based pagination instead of the SCIM protocol-defined index-based pagination method.

For more information, see *Configuring data synchronization with the Generic SCIM Connector* in the *Active Roles Synchronization Service Administration Guide*.

In preparation for the deprecation of the Remote PowerShell (RPS) protocol in 403476 Exchange Online PowerShell, Active Roles Synchronization Service is updated with the following enhancements:



Enhancement Issue ID

• Increased the minimum required version of Exchange Online PowerShell to v3.0.0.

- Replaced New-PSSession cmdlet calls with Connect-ExchangeOnline cmdlet calls.
- Updated the Microsoft 365 Connector (formerly known as Office 365 Connector) and the Microsoft Azure AD Connector to support certificate-based authentication and automatic configuration.

For more information on configuring the updated connectors, see *Working with Microsoft 365* and *Working with Microsoft Azure Active Directory* in the *Active Roles Synchronization Service Administration Guide*.

### **Resolved issues**

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

#### **Table 3: General resolved issues**

Resolved Issue	Issue ID
Previously, when creating a new user with an Exchange mailbox either in the Active Roles Console or in the Web Interface, Active Roles did not populate the <b>Mailbox database</b> list if the performance fix described in Knowledge Base Article 4336544 was applied with a <b>PerformanceFlag</b> registry key value of 2 or 3.	417246
This issue was caused by Active Roles also evaluating the values of 2 and 3 specified for the <b>PerformanceFlag</b> key, even though the key supports only two values: 0 (to deactivate the performance fix) and 1 (to enable it).	
The issue was solved by making sure that Active Roles accepts only values 0 and 1 for the <b>PerformanceFlag</b> key.	
Previously, in Active Roles Log Viewer, the Active Roles verbose log did not use the correct delta request URL to retrieve more objects. This resulted in not all users being listed under <b>Azure Users</b> . This issue is now resolved.	417067
Previously, when checking the OneDrive settings of a hybrid or cloud Azure user, the Active Roles Web Interface and the Active Roles Management Shell:	412967

- Might not display the OneDrive site URL.
- Showed 0 for the used and quota storage sizes.

This issue was caused by incorrect query parameters used for fetching the relevant OneDrive data, and is now fixed.



#### **Table 4: Active Roles Service resolved issues**

Resolved Issue	Issue ID
Previously, scheduled Active Roles operations could fail with the following error if the Active Directory domain controller (DC) assigned to perform the scheduled operation was unavailable:	407373
The server is not operational.	

The server is not operational.

This issue occurred because Active Roles did not fall back to another working DC in the Disaster Recovery Plan (DRP) process in such cases, and is now fixed.

**Table 5: Configuration Center resolved issues** 

Resolved Issue	Issue ID
Previously, when importing a configuration database in the Active Roles Configuration Center, attempting to use a backup encryption key in the <b>Import of the encrypted data</b> tab did not work, and the encryption file could not be used to decrypt the imported database.	405222
This issue occurred because even though the Administration Service validated the contents of the encryption file, it did not use it for the actual import process. This issue is now solved, and the key is used properly.	
NOTE: As this issue is now fixed, make sure not to use the encryption file key to manually restore the encryption key after the import with the Restore-AREncryptionKey command. Use the file only when instructed during the import process.	
Previously, when opening the Active Roles Configuration Center and selecting the <b>Web Interface</b> tab, the following error could appear:	387283

Object reference not set to an instance of an object.

This issue occurred due to errors in updating the Web Interface configuration during a product upgrade, and is now fixed.

Table 6: Console (MMC Interface) resolved issues

	ID	
Previously, in rare occasions, navigating to <b>Configuration</b> > <b>Server Configuration</b> > <b>Scheduled Tasks</b> > <b>Builtin</b> , and running the Dynamic Group	414916	
Updater scheduled task could result in Active Roles not being able to commu-		
nicate with the Domain Controller. The Dynamic Group Updater accidentally		
removed all members of the dynamic group, and to re-add members, the		



**Resolved Issue** 

Issue

Resolved Issue ISsue ID

dynamic group had to be manually rebuilt by clicking **Rebuild**.

The issue is now resolved.

Previously, when navigating to Configuration > Server Configuration > Scheduled Tasks > Builtin, opening the Azure Manual Cache Control Properties and changing the Manual clear cache script parameter to true in Parameters, manually clearing the cache failed by right-clicking Azure Manual Cache Control > All Tasks > Execute. The following event log entry appeared:

412644

ScriptModule: AzureCacheControl
An error occurred when executing scheduled task
The method or operation is not implemented.

The issue is now resolved: running the tasks is successful, and the Manual clear cache script parameter was removed as a result of code refactoring. The Manual clear cache script parameter was removed because it only deleted the cache, but did not refill it, which caused significant lag when using Microsoft Azure. To manually clear cache use the Manual reload cache, which deletes and refills cache, ensuring smooth functionality.

NOTE: If you set the values to **true** of both Manual delta processing and Manual reload cache script parameters, the script will not run and the following event log entry will appear:

More than one actions have been selected for execution in Scheduled Task parameters.

Previously, when applying both an Access Template (AT) using a Full Control permission and another granular AT denying access to certain password-related attributes (such as PasswordNeverExpires, UserCannotChangePassword, UserMustChangePasswordAtNextLogon) to a user, the deny AT did not take effect for the user.

410412

This issue was caused by the AT specifying an explicit deny not taking precedence over the AT using the Full Control permission.

The issue was fixed by ensuring that explicit deny ATs always take precedence over inherited allow permissions.

Previously, in certain environments, Active Roles might not update Dynamic Groups in time when adding a new rule or forcing a rebuild. Also, in case of more than 1,000 changes, the changes were not processed until the nightly scheduled task.

405859

To solve this problem, Active Roles features a rebuilt Dynamic Group logic that removes the 1,000 group member limit for normal group membership



Resolved Issue	Issue ID
changes, and also ensures that changes are now always processed immediately.	
Previously, when configuring the mail configuration in <b>Configuration</b> > <b>Server Configuration</b> > <b>Mail Configuration</b> > <b>Default Mail Settings Properties</b> to use Exchange Web Services with Exchange Online and send approval responses by email, response emails sent by approvers could stuck indefinitely without being processed by Active Roles. This problem did not affect approval workflows using on-premises Exchange Server mailboxes.	404659
The issue was caused by approval notifications not supporting Exchange Web Service modern authentication, and is now fixed.	
Previously, when configuring the mail configuration in <b>Configuration</b> > <b>Server Configuration</b> > <b>Mail Configuration</b> > <b>Default Mail Settings Properties</b> to use Exchange Web Services with Exchange Online and send approval responses by email, the mailto: links of approval workflow notification emails always contained the service account address even if an impersonated account was configured in the mail configuration settings.	404217
The issue was caused by approval notifications not supporting Exchange Web Service modern authentication, so Active Roles could not collect emails from the impersonated account. Instead, it was falling back to the service account address.	
This issue is now fixed, so when you configure an impersonated account address, that email address will appear properly in the approval workflow email messages.	
Previously, undoing the deprovision of a user object that was originally licensed via group-based licensing would result in the previous license reassigned to the object directly instead of inheriting it from the group.	388433
The issue is fixed and now if a user has a license inherited from a group, after deprovisioning and undo-deprovisioning it, the license will be inherited from the group again instead of being reassigned directly.	
Previously, after upgrading Active Roles and importing a configuration that contained a scheduled automation workflow, the workflow schedule was disabled, so the workflow could not run as originally scheduled.	326759
The issue was caused by unintended data modification: the scheduled workflow stores the Active Roles Service GUID in a database record, but new installations could change this GUID.	
The issue is now resolved by replacing the previous service GUID with the current one when importing the configuration, so that automation workflows can run as scheduled even after upgrading or reinstalling Active Roles.	



#### **Table 7: Installer resolved issues**

Resolved Issue	Issue ID
Previously, attempting to install Microsoft OLE DB Driver for SQL Server via the Active Roles installer required users to manually install the prerequisite Microsoft Visual C++ Redistributable for Visual Studio packages, as they were not included in the Active Roles installation package.	411389
This issue was fixed by including the packages in the installer.	

**Table 8: Management Shell resolved issues** 

Resolved Issue	Issue ID
Previously, the Active Roles Management Pack for SCOM showed an incorrect version number.	405577
This issue is now fixed.	

**Table 9: Synchronization Service resolved issues** 

Table 9. Synchronization Service resolved issues	
Resolved Issue	Issue ID
Previously, when synchronizing user licenses using the Azure AD or Microsoft 365 connectors, synchronization could fail. The issue was caused by querying the users' licenseDetails attribute as part of the synchronization process. When querying the licenseDetails attribute, in some cases, Microsoft Graph API responded with a 404 Not found error message, causing either the Azure AD or the M365 connector to abort the synchronization process.	422136
The issue is now resolved: the users that get stuck in Azure AD are now bypassed during the synchronization process and do not cause any errors.	
Previously, when synchronizing Azure user licenses using the Azure AD or Microsoft 365 connectors, the synchronization process could fail with an Access token is expired error message.	419838
This issue occurred in case of a very large amount of users because the access token from Microsoft Graph API was only valid for 1 hour, but synchronizing the licenses took longer, and Synchronization Service did not refresh the access token.	
The issue is now resolved.	
Previously, if you used the Synchronization Service Console with a different user than the one used for running Synchronization Service, the following	418137

• Creating and consenting a new Azure AD Connector or Microsoft 365 Connector with the auto-configuration settings could result in the



errors could occur:

Resolved Issue Issue ID

following error when testing the connection:

Connection failed
Cannot connect using the specified connection settings.

• Configuring Azure BackSync could fail with the following error:

Synchronization Service has returned an error Active Roles cannot acquire the access token.

This issue occurred because Active Roles Synchronization Service could not properly access the secret used for authenticating these connections when you accessed Synchronization Service with a user other than the one that runs the service.

The issue was fixed by making sure that Synchronization Service can properly access the certification store where the required secret is stored, regardless of the user you use.

Previously, when running Azure BackSync (or any **Update** sync workflow that used the Azure AD Connector) to synchronize group members after making changes to a group, Azure BackSync (or the sync workflow) failed with the following error:

418031

One or more added object references already exist for the following modified properties: 'members'.

This issue occurred because Synchronization Service used expand queries to retrieve Azure group members (and object reference type attributes in general) with two limitations:

- They retrieved only the first 20 member objects.
- They did not support pagination.

As Synchronization Service retrieved only the first 20 member objects, Azure BackSync or the **Update** sync workflow could run into data synchronization anomalies, such as trying to assign an object to a group where it was already a member.

The issue was fixed by removing the previous limitations of the expand query, so that it can retrieve every member of a group (or every other object reference type attribute). This fix affects the following object reference type attributes:

- Members
- MemberOf



Resolved Issue Issue ID

- Owners
- TransitiveMembers
- TransitiveMemberOf
- MembersWithLicenseErrors
- ResourceProvisioningOptions

Previously, when running a sync workflow that used the Azure AD Connector for group object mapping, Synchronization Service could not map the object reference type attributes on Azure group objects, and showed the following error:

417804

Synchronization steps aborted. Details: the given key was not present in the dictionary.

This issue occurred because the Azure AD Connector was processing the response incorrectly when querying the affected attributes from Graph API.

The issue was fixed by updating the mapping for the following object reference type attributes, so that the Azure AD Connector can process Graph API responses correctly:

- Members
- MemberOf
- Owners
- TransitiveMembers
- TransitiveMemberOf
- · MembersWithLicenseErrors
- ResourceProvisioningOptions

Previously, the Microsoft 365 Connector (formerly known as Microsoft Office 365 Connector) could only synchronize up to 1,000 mail users.

405966

This limitation has been removed.

Previously, when running Azure BackSync with the Azure AD Connector for several thousand users, Synchronization Service did not indicate the number of processed user objects until all user objects were processed. Because of this, it could appear that nothing happened until the on-screen counter jumped to the total number of processed objects.

401938

The issue is fixed, and now the counter of processed objects in the Azure AD Connector increases gradually, as expected.

Previously, the Azure BackSync could only synchronize up to 1,000 contacts. The issue is now resolved.

387685



**Table 10: Web Interface resolved issues** 

Resolved Issue	Issue ID	
Previously, after adding members to an Azure group, the value of the objectClass attribute cleared and the Azure group no longer appeared in the list of groups. This issue is now resolved.	417068	
Previously, in a federated or synchronized identity Azure tenant, creating hybrid users with an Exchange Online Plan 2 license, then adding those hybrid users to a list of users with <b>Full Access</b> resulted in Active Roles not saving the Exchange Online delegation settings, even though the following message appeared when clicking <b>Save</b> :	416873	
The operation is successfully completed.		
The issue is now resolved.		
Previously, using a personal view to open an Active Directory (AD) Organizational Unit (OU) whose name contains special character(s) resulted in the following error:	414564	
Administration Service encountered an error when retrieving properties of the object.		
The issue was caused by special characters in the request URL of the Web Interface and are now resolved, with the exception of the < character. For more information, see issue 415590 in Known issues.		
Previously, in <b>Customization</b> > <b>Global Settings</b> , when enabling or disabling quick searches for ADLDS and Azure AD objects, clicking <b>Save</b> did not save your settings.	412961	
The issue is now resolved.		
Previously, when setting a custom global color scheme in <b>Customization</b> > <b>Global settings</b> > <b>Color scheme</b> , the customized Web Interface scheme could appear incorrectly in the user interface, with the sidebar colors, various selected elements and certain panes not following the base color of the scheme.	412961	
This issue was fixed by adjusting the management of customized Web Interface themes.		
Previously, when setting a custom global color scheme in <b>Customization</b> > <b>Global settings</b> > <b>Color scheme</b> , the customized Web Interface scheme could appear incorrectly in the user interface, with the sidebar colors, various selected elements and certain panes not following the base color of the scheme.	407336	



This issue was fixed by adjusting the management of customized Web



Resolved Issue	Issue ID
Interface themes.	
Previously, customizing the Web Interface could negatively impact the functionality and performance of object search queries. Following customization, queries in the Web Interface could return too many objects, and query searches could slow down due to performing complex internal filtering before displaying query results in the Web Interface.	395064
This issue is now fixed, so customized Web Interface instances now work without any such problems.	
Previously, searching for Azure objects took approximately 15-20 seconds.	389314
The issue has been resolved by modifying Microsoft Graph API pagination to reduce network traffic. As a result, searching for Azure objects is now significantly faster.	
Previously, when configuring the <b>Exchange Online Properties</b> for the on- premises account of a remote shared mailbox, the <b>Full Control</b> permissions of the mailbox appeared blank in the Active Roles Web Interface.	388526
Previously, registering a custom primary domain name for the Azure tenant and using it in the -organization parameter in Exchange Online connection strings was not supported by Microsoft and could result in performance issues in the Active Roles Web Interface when fetching tenant information.	387657
The issue is now resolved.	
Previously, when using the <b>Customization</b> > <b>Directory Objects</b> > <b>Customize Navigation Bar</b> > <b>General</b> option of the Web Interface to open the <b>Item Properties</b> of the <b>Reload</b> button or the <b>Restore Default</b> button, clicking <b>OK</b> to close the dialog without any changes and reloading the configuration resulted in the changed <b>Reload</b> or <b>Restore Default</b> button no longer working.	322689
This issue occurred because Active Roles was unable to get the target URL of these buttons, resulting in the <b>Item Properties</b> > <b>URL to open</b> field appearing empty in the Web Interface. If this field was left empty, clicking <b>OK</b> in the dialog to save the button settings broke the button.	
To fix the issue, the Web Interface now sends a pop-up alert to inform users that the <b>URL to open</b> field cannot be left empty.	
Previously, when copying a shared, equipment or room mailbox in the Web Interface, the copied mailbox did not inherit the original mailbox type, and was created as a standard user mailbox instead. In other words, the value of its msExchRecipientDisplayType attribute was always set to 1073741824 instead of inheriting the original value.	307164
This issue was caused by a Web Interface infrastructure problem, and was fixed by implementing a switch case to determine the type of mailbox and add the proper attribute during the copy process.	



### **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 11: General known issues** 

Known Issue	Issue ID
Activating the EnableAntiForgery key ( <add key="EnableAntiForgery" value="true"></add> 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 IIS Manager.
- 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 12: Configuration Center known issues** 

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



#### **Table 13: Console (MMC Interface) known issues**

Known Issue	Issue ID
Azure objects cannot be deleted.	392597
Workaround	
In the Delete Access Templates, grant the user Read right on the ObjectClass property.	
Automation workflows with the Microsoft 365 script fail, 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 a built-in workflow, it may not run as expected.	153539
Azure Group Properties are not available if they are added to the Microsoft 365 Portal or Hybrid Exchange Properties from the forwarding address attribute of Exchange online users.	98186
In Active Roles with the <b>Office 365 Licenses Retention</b> policy applied, after deprovisioning the Azure AD user, the Deprovisioning Results for the <b>Office 365 Licenses Retention</b> policy are not displayed in the same window.	91901

#### Workaround

To view the deprovisioning results of an Azure AD user:

- In the Active Roles 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 14: Installer known issues**

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

#### **Table 15: Language Pack known issues**

Known Issue	Issue ID
In the Active Roles Configuration Center, changing the language in <b>Global</b>	125880



Known Issue	Issue ID
settings does not work properly.	
Workaround	
To change the language of the Web Interface, configure the language with the <b>Active Roles 8.1.3</b> > <b>Settings</b> > <b>User interface language</b> option of the Web Interface.	
In the Active Roles Console, the <b>O365 script execution configuration</b> activity of the Workflow Designer is not completely localized to German.	151392
In the Active Roles Console, the German localization may contain visual issues and truncated texts.	91946
In the Active Roles Console, some strings are displayed in English instead of German in the German localization.	91942
In the Active Roles Synchronization Service, the <b>Event Viewer</b> messages are not translated to German.	91753
In the Active Roles Synchronization Service, the German localization does not have all connector strings translated.	91709
In the Active Roles Web Interface, some Azure-related strings are translated incorrectly for the supported languages. Translated texts may also contain link inconsistencies.	257995
In Active Roles, several German localization issues are present.	164713
In Active Roles, strings on the notification page are not localized.	153695
In the Language Pack installer, the link of the online EULA agreement in the EULA text does not work.	91925

#### **Table 16: Synchronization Service known issues**

Known Issue	Issue ID
In the Synchronization Service, the following attributes of the <b>Microsoft Azure AD Connector</b> are currently not supported and cannot be queried via	304074
the Microsoft Graph API:	

- **user** attributes:
  - aboutMe
  - birthday
  - contacts
  - hireDate
  - interests



Known Issue Issue ID

- mySite
- officeLocation
- pastProjects
- preferredName
- responsibilites
- schools
- skills
- group attributes:
  - acceptedSenders
  - allowExternalSenders
  - autoSubscribeNewMembers
  - hasMembersWithLicenseErrors
  - hideFromAddressLists
  - hideFromOutlookClients
  - isSubscribedByMail
  - membersWithLicenseErrors
  - rejectedSenders
  - unseenCount

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 17: Web Interface known issues

Known Issue ID

Using a personal view to open an Active Directory (AD) Organizational Unit (OU) whose name contains the < special character results in the following error:

415590

An error occurred during the last operation.

Error: A potentially dangerous Request.Query.String was detected from the client (DN="OU\<name-property>").

The issue is caused by the special character in the request URL of the Web Interface, causing failures in the web functionality of Active Roles.

#### Workaround



**Known Issue Issue ID** One Identity recommends avoiding the use of the < character in the name property of an AD object. When attempting to modify or delete Azure users, contacts, or groups 388062, synchronized from an on-premises Active Directory to an Azure Active 388063 Directory, the operation either appears to be successful, but silently fails, or the operation fails with a generic error message. If the operation appears to be successful, the following message appears: The operation is successfully completed. However, the operation silently fails, no error message appears, and the Azure user, contact or group is not deleted or modified. If the operation fails, the following generic error message appears instead of a specific error message: An error occurred during the last operation. NOTE: Similar failures with either no error message or a generic error message may occur due to an architectural issue in the Active Roles Web Interface. If you click **Azure** > **Resource Mailboxes** to guery room mailboxes after 293380 being idle for approximately 15-20 minutes, the Active Roles Web Interface will not list any room mailboxes. Workaround Restart the Administration Service. In the Active Roles Web Interface, Azure roles are not restored automatically 172655 after performing an **Undo Deprovision** action on a user. 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 91905 Property of the ProhibitSendQuota value in Storage Quotas. Table 18: Add-on Manager known issues **Known Issue Defect** ID After installing an add-on that creates Web Interface customization items, the 179835

Web Interface may not display the customization items created by the add-



on.

Known Issue Defect ID

#### Workaround

In the Web Interface, click Reload.

After installing an add-on that creates a virtual attribute, the virtual attribute may not appear in the **Advanced Properties** dialog of the affected object.

180508

#### Workaround

After installing the add-on, reconnect to the Administration Service.

After installing an add-on that creates a virtual attribute and a Web Interface customization item using that virtual attribute, an error may occur when opening any Web Interface site.

180524

#### Workaround

Restart Internet Information Services (IIS) on the web server running the Web Interface (for example, by running the **iisreset** command in the Windows command prompt).

If there is a replication group in your Active Roles environment, do the following:

- 1. After the changes are propagated to all replication partners, click **Reload** in the Web Interface.
- 2. If the Web Interface does not open, enter the following in the address bar of your browser to reload the Web Interface:
  - <site url>/customization/metadataReload.aspx?ReloadFromWorkingCopy=1
- 3. After the changes are propagated to all replication partners, restart Internet Information Services (IIS) on the web server running the Web Interface (for example, by running the **iisreset** command in the Windows command prompt).

When you use Add-on Manager to uninstall an add-on, the following error may 180700 occur:

Object 'objectDN' was not found.

This error can occur if the add-on modifies an existing object during installation, and then the modified object is deleted by a user after the add-on has been installed.

#### Workaround

Uninstall the add-on from the command line using the /ForceUninstall parameter. For example:

AddOnManager.exe /UninstallAddon /AddonName: "my-addon" /ForceUninstall



Known Issue Defect ID

/Service: "servicename" /User: "domain\user" /Password: "password"

After uninstalling an add-on that creates a virtual attribute and a Web Interface customization item that uses that virtual attribute, the Web Interface customization item created by the add-on may not be removed, and the Web Interface may return the following error:

180721

An error occurred during the last operation.

#### Workaround

Perform the following steps:

1. In the Web Interface, click the **Reload** command.

If the Web Interface does not open, reload the Web Interface by entering the following URL in the address bar of your browser:

<site url>/customization/metadataReload.aspx?ReloadFromWorkingCopy=1

NOTE: If there is a replication group in your Active Roles environment, reload the Web Interface only after the changes are propagated to all replication partners.

2. Restart Internet Information Services (IIS) on the web server running the Web Interface (for example, by running the **iisreset** command in the Windows command prompt).

NOTE: If there is a replication group in your Active Roles environment, restart IIS only after the changes are propagated to all replication partners.

After installing an add-on that creates Web Interface customization items, the 180808 Web Interface customization items created by the add-on may not be displayed.

This issue may occur if you provide incorrect user name and password for reloading Web Interface sites.

#### Workaround

In the Web Interface, click the **Reload** command.

When you install Add-on Manager from the command-line, you may encounter 183252 the following error:

Command line option syntax error. Type Command /? for Help.

This error may occur if one or several parameters of the command contain more than 255 characters.



Known Issue Defect ID

#### Workaround

Edit the command-line parameters (for example, the path to a file) so that each parameter is not longer than 255 characters.

# **System requirements**

Before installing Active Roles 8.1.3, ensure that your system meets the following minimum hardware and software requirements.

NOTE: When setting up a virtual environment, carefully consider the configuration aspects such as CPU, memory availability, I/O subsystem, and network infrastructure to ensure the virtual layer has the necessary resources available. Please consult One Identity's Product Support Policies for more information on environment virtualization.

To authenticate and communicate with Azure, the Active Roles Service must have access to the following Microsoft endpoints:

- https://login.microsoftonline.com/
- https://developer.microsoft.com/graph
- https://graph.windows.net/

To manage Azure Active Directory resources, you must install the following prerequisites in the Active Roles Configuration Center.

TIP: To run the PowerShell commands of the following modules, use the 64-bit version of Windows PowerShell.

Requirement	Version	Details	
NuGet package provider	Minimum: 2.8.5.201	You must install the NuGet package provider on the computer(s) running Active Roles Administration	
	Maximum:	Service.	
	3.0.0.1	For installation instructions, see Install-PackageProvider in the Microsoft Package Management documentation.	
Exchange Minimum: 3.0.0 PowerShell V3 module Maximum: 3.1.0	3.0.0	You must install the Exchange Online PowerShell module on the computer(s) running Active Roles Administration Service.	
	3.1.0	For installation instructions, see About the Exchange Online PowerShell module in the Microsoft Exchange PowerShell documentation.	
Az.Accounts PowerShell	Maximum: 2.10.3	You must install the Az.Accounts PowerShell module on the computer(s) running Active Roles Administration	



Requirement	Version	Details
module		Service and Active Roles Synchronization Service.
		For installation instructions, see Az. Accounts in the Microsoft PowerShell Gallery.
Az.Resources PowerShell module	Maximum: 6.4.1	You must install the Az.Resources PowerShell module on the computer(s) running Active Roles Administration Service.
		For installation instructions, see Az.Resources in the Microsoft PowerShell Gallery.
Microsoft Graph PowerShell module	Maximum: 1.17.0	You must install the Microsoft Graph PowerShell module on the computer(s) running Active Roles Administration Service. For installation instructions, see Microsoft Graph in the Microsoft PowerShell Gallery.
Microsoft Edge WebView2 Runtime	N/A	You must install Microsoft Edge WebView2 Runtime on the computer running Active Roles Administration Service. For more information, see Introduction to Microsoft Edge WebView2 in the Microsoft Edge Developer documentation.
(Optional) One Identity certificate	N/A	If your organization enforces the AllSigned policy, you must install the One Identity certificate during the installation of Active Roles.

**CAUTION:** When importing PowerShell modules with the \$context.0365ImportModules function, they are imported with the versions specified in the configuration of the Azure-specific prerequisites.

However, after importing the specified versions of the required PowerShell modules, running PowerShell cmdlets without passing them as a string to the \$context.0365ImportModules function can cause inconsistent behavior in Active Roles. This is because if there are multiple versions of the same PowerShell module installed on the computer running the Active Roles server, PowerShell modules containing the script to run can be imported automatically with different versions.

To avoid inconsistent behavior in Active Roles by importing different PowerShell versions, run PowerShell modules only by passing them as a string to the \$context.0365ImportModules function.

#### **Hardware requirements**

**Table 19: Hardware requirements** 

Requirement	Details
Processor	For Administration Service, Web Interface and



Requirement	Details
NOTE: The number of cores required depends on the size of the environment and the total number of managed objects.	Synchronization Service, any of the following:  • Intel 64 (EM64T)  • AMD64  • Minimum 2 cores  • CPU speed: 2.0 GHz or faster  NOTE: For Active Roles Synchronization Service, One Identity recommends using a multi-core CPU for the best performance.  For Console, SPML Provider and Management Tools, any of the following:  • Intel x86  • Intel 64 (EM64T)  • AMD64  • CPU speed: 1.0 GHz or faster.
Memory	Administration Service:
NOTE: The amount of RAM	A minimum of 4 GB of RAM.
required depends on the size of the environment and the total	Web Interface, Synchronization Service:
number of managed objects.	A minimum of 2 GB of RAM.
	Console, SPML Provider and Management Tools:
	A minimum of 1 GB of RAM.
Hard disk space	Administration Service, Web Interface, Console, SPML Provider and Management Tools:
	A minimum of 100 MB of free disk space.
	Synchronization Service:
	A minimum of 250 MB of free disk space.
	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.
Operating system	You can install any of the Active Roles components on a computer running:
	<ul> <li>Microsoft Windows Server 2022</li> </ul>
	<ul> <li>Microsoft Windows Server 2019</li> </ul>
	<ul> <li>Microsoft Windows Server 2016</li> </ul>



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#### **Details**

Active Roles supports the Standard or Datacenter edition of these operating systems.

In addition, you can install the Active RolesConsole and Management Tools on a computer running:

- 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

#### **Component requirements**

A | CAUTION: To avoid inconsistent behavior in Active Roles when managing Azure Active Directory resources, you must enable Transport Layer Security (TLS) protocol version 1.2. For more information, see TLS 1.2 enforcement for Azure AD Connect in the Microsoft Azure documentation.

All Active Roles components require:

- Microsoft .NET Framework 4.8. For more information, see Installing .NET Framework for developers in the Microsoft .NET documentation.
- Visual C++ 2017 Redistributable.

#### **Table 20: Administration Service requirements**

Requirement	Details	
SQL Server	You can host the Active Roles database on the following SQL Server versions:	
	<ul> <li>Microsoft SQL Server 2022, any edition.</li> </ul>	
	<ul> <li>Microsoft SQL Server 2019, any edition.</li> </ul>	
	<ul> <li>Microsoft SQL Server 2017, any edition.</li> </ul>	
	<ul> <li>Microsoft SQL Server 2016, any edition.</li> </ul>	
	<ul> <li>Microsoft SQL Server 2014, any edition, 32-bit (x86) or 64-bit (x64), with or without any Service Pack.</li> </ul>	
	Azure SQL hosted databases.	
	To connect Active Roles to a Microsoft SQL Server deployment, install Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).	
Windows	Windows Management Framework 5.1 (available for download) is	



Requirement	Details
Management Framework	required on all supported operating systems.
Operating system on domain	The product retains all of its features and functions when managing Active Directory on domain controllers running any of these operating systems, any edition, with or without any Service Packs:
controllers	Microsoft Windows Server 2022
	Microsoft Windows Server 2019
	Microsoft Windows Server 2016
	NOTE: The supported domain functional level is Windows Server 2008 R2 or higher.
Exchange Server	Active Roles is capable of managing Exchange recipients on:
	Microsoft Exchange Server 2019
	Microsoft Exchange Server 2016

	Interface requirements
Requirement	Details
Internet Services	Active Roles Web Interface requires the Web Server (IIS) server role with the following role services:
	<ul> <li>Web Server/Common HTTP Features/</li> </ul>
	<ul> <li>Default Document</li> </ul>
	HTTP Errors
	Static Content
	HTTP Redirection
	Web Server/Security/
	Request Filtering
	Basic Authentication
	<ul> <li>Windows Authentication</li> </ul>
	<ul> <li>Web Server/Application Development/</li> </ul>
	.NET Extensibility
	• ASP
	ASP.NET
	ISAPI Extensions
	ISAPI Filters
	<ul> <li>Management Tools/IIS 6 Management Compatibility/</li> </ul>



Requirement	Details	
	IIS 6 Metabase Compatibility	
Feature delegation	Internet Information Services (IIS) must provide <b>Read/Write</b> delegation for the following features:	
	Handler Mappings	
	Modules	
	To confirm that these features have the <b>Read/Write</b> delegation configured, use the <b>Feature Delegation</b> option of the native Internet Information Services (IIS) Manager tool of the operating system.	
.NET Trust Levels	The .NET Trust Level must be set to <b>Full (internal)</b> on every computer where the Web Interface component is installed.	
	To configure this setting:	
	<ol> <li>In the system-provided Internet Information Services (IIS)         Manager tool, under Connections, expand the node of the         computer, and navigate to Sites &gt; Default Web Site.</li> </ol>	
	<ol><li>On the <b>Default Web Site Home</b> page, double-click .NET Trust Levels.</li></ol>	
	<ol><li>Under Trust level, select Full (internal).</li></ol>	
	NOTE: Setting the .NET Trust Level to any other value will result in a failure when attempting to load any of the configured Active Roles Web Interface sites.	
Web browser	You can access Active Roles Web Interface using:	
	<ul> <li>Mozilla Firefox 36 (or newer) on Windows.</li> </ul>	
	<ul> <li>Google Chrome 61 (or newer) on Windows.</li> </ul>	
	<ul> <li>Microsoft Edge 79 (or newer), based on Chromium on Windows 10.</li> </ul>	
	You can use a later version of Firefox and Google Chrome to access Active Roles Web Interface. However, the Active Roles Web Interface was tested only with the browser versions listed above.	
Minimum screen resolution	Active Roles Web Interface is optimized for screen resolutions of 1280x800 or higher.	
	The minimum supported screen resolution is 1024x768.	

**Table 22: Console requirements** 

Table 22. Console requirements		
Requirement Details		
Web browser	Active Roles Console requires Microsoft Edge 79 (or newer), based on Chromium.	



**Table 23: Management Tools requirements** 

Requirement	Details
Windows Management Framework	Windows Management Framework 5.1 (available for download) is required on all supported operating systems.
Remote Server Administration Tools (RSAT)	To manage Terminal Services user properties by using Active Roles Management Shell, Active Roles Management Tools requires 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 Windows Server documentation</i> .

**Table 24: Synchronization Service requirements** 

Requirement	Details
Operating system on domain	The product retains all of its features and functions when managing Active Directory on domain controllers running any of these operating systems, any edition, with or without any Service Packs:
controllers	Microsoft Windows Server 2022
	Microsoft Windows Server 2019
	Microsoft Windows Server 2016
	NOTE: The supported domain functional level is Windows Server 2008 R2 or higher.
SQL Server	You can host the Active Roles Synchronization Service database on:
	<ul> <li>Microsoft SQL Server 2022, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2019, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2017, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2016, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2014, any edition, 32-bit (x86) or 64-bit (x64), with or without any Service Pack.</li> </ul>
	NOTE: Active Roles Synchronization Service does not support Azure SQL hosted databases.
Windows Management Framework	Windows Management Framework 5.1 (available for download) is required on all supported operating systems.
Supported connections	Active Roles Synchronization Service can connect to the following data systems:
	<ul> <li>Data sources accessible via an OLE DB provider.</li> </ul>



- · Delimited text files.
- IBM AS/400, IBM Db2, and IBM RACF systems.
- · LDAP directory service.
- Micro Focus NetIQ Directory systems.
- The following Microsoft services and resources:
  - Active Directory Domain Services (AD DS) with the domain or forest functional level of Windows Server 2016 or higher.
  - Active Directory Lightweight Directory Services (AD LDS) running on any Windows Server operating system supported by Microsoft.
  - Azure Active Directory (Azure AD) using Microsoft Graph API version 1.0.
  - · Exchange Online services.
  - Exchange Server with the following versions:
    - Microsoft Exchange Server 2019
    - Microsoft Exchange Server 2016
  - Lync Server version 2013 with limited support.
  - SharePoint 2019, 2016, or 2013.
  - · SharePoint Online service.
  - Skype for Business 2019, 2016 or 2015.
  - · Skype for Business Online service.
  - SQL Server, any version supported by Microsoft.
- One Identity Active Roles version 7.4.3, 7.4.1, 7.3, 7.2, 7.1, 7.0, and 6.9.
- One Identity Manager version 8.0 and 7.0 (D1IM 7.0).
- · OpenLDAP directory service.
- Oracle Database, Oracle Database User Accounts, and Oracle Unified Directory data systems.
- MySQL databases.
- · Salesforce systems.
- SCIM-based data systems.
- ServiceNow systems.

Legacy Active Roles ADSI Provider To connect to Active Roles version 6.9, install the Active Roles ADSI Provider. For more information, see *Installing additional components* in the *Active Roles Quick Start Guide*.



Requirement	Details
One Identity Manager API	To connect to One Identity Manager 7.0, install One Identity Manager Connector on the computer running Active Roles Synchronization Service. This connector works with the RESTful web service and no SDK installation is required.
Internet connection	To connect to cloud directories or online services, the machine running Active Roles Synchronization Service must have a stable Internet connection.

**Table 25: Synchronization Service Capture Agent requirements** 

Requirement	Details
Operating system	The DCs on which you install Active Roles Synchronization Service Capture Agent must run one of the following operating systems with or without any Service Pack:
	Microsoft Windows Server 2022
	Microsoft Windows Server 2019
	Microsoft Windows Server 2016
	For more information, see the Active Roles Synchronization Service Administration Guide.

**Table 26: Language Pack requirements** 

Requirement	Details
Active Roles version	The Active Roles 8.1.3 Language Pack requires Active Roles version 8.1.3 of the Administration Service, Configuration Center, Console, Synchronization Service or the Web Interface installed on the target machine.
	The Active Roles 8.1.3 Language Pack will not work properly with earlier versions of Active Roles.
Operating system	You can install the Active Roles Language Pack on 64-bit operating systems only.

**Table 27: Add-on Manager requirements** 

Requirement	Details
Processor	Any of the following:
	<ul> <li>Intel 64 (EM64T)</li> </ul>
	• AMD64
	<ul> <li>CPU speed: 1.0 GHz or faster</li> </ul>



Requirement	Details
Memory	A minimum of 1 GB of RAM.
Hard Disk Space	A minimum of 100 MB of free disk space.
Operating System	Any of the following Windows Server operating systems:
	<ul> <li>Microsoft Windows Server 2022</li> </ul>
	<ul> <li>Microsoft Windows Server 2019</li> </ul>
	<ul> <li>Microsoft Windows Server 2016</li> </ul>
	In addition, you can also install Add-on Manager on a computer running:
	<ul> <li>Microsoft Windows 10, Professional or Enterprise edition, 64-bit (x64)</li> </ul>
Active Roles Console	Add-on Manager requires Active Roles 8.1.3 Console installed.
Microsoft Windows PowerShell	Windows PowerShell 5.1 or later
Web Browser	Microsoft Edge 79 or newer (based on Chromium)

**Table 28: Diagnostic Tools requirements** 

Requirement	Details
Processor	1.0 GHz or faster 32-bit (x86) or 64-bit (x64) CPU.
Memory  NOTE: The amount of RAM required depends on the size of the log file opened with the Log Viewer tool.	A minimum of 1 GB of RAM.
Hard disk space	A minimum of 10 MB of free disk space.
Operating system	Any of the following Windows Server operating systems:  • Microsoft Windows Server 2022  • Microsoft Windows Server 2019  • Microsoft Windows Server 2016



**Table 29: Data Collector and Reporting Pack requirements** 

Requirement	Details
Processor	Any of the following:
	• Intel x86
	• Intel 64 (EM64T)
	• AMD64
	CPU speed: 2.0 GHz or faster.
Memory	A minimum of 2 GB of RAM.
Hard disk space	<ul> <li>12 MB for the Data Collector and Reporting Pack.</li> </ul>
	<ul> <li>10 GB for the SQL Server Reporting Services.</li> </ul>
Operating system	Any of the following Windows Server operating systems:
	<ul> <li>Microsoft Windows Server 2022</li> </ul>
	<ul> <li>Microsoft Windows Server 2019</li> </ul>
	<ul> <li>Microsoft Windows Server 2016</li> </ul>
SQL Server and SQL Server Reporting Services	You can host the Active Roles Data Collector and Reporting Pack on the following SQL Server versions:
	<ul> <li>Microsoft SQL Server 2022, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2019, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2017, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2016, any edition.</li> </ul>
	<ul> <li>Microsoft SQL Server 2014, any edition, 32-bit (x86) or 64-bit (x64), with or without any Service Pack.</li> </ul>
	<ul> <li>Azure SQL hosted databases.</li> </ul>
	To connect Active Roles to a Microsoft SQL Server deployment, install Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).
Active Roles ADSI Provider	Active Roles 8.1.3 Management Tools must be installed.

# **Product licensing**

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



# **Upgrade and installation instructions**

This section contains information about the upgrade and installation changes affecting Active Roles 8.1.3.

NOTE: You must run the Active Roles installer with administrator privileges.

#### **Supported Active Roles upgrade paths**

You can upgrade the following versions of Active Roles to Active Roles 8.1.3:

- Active Roles 7.5
- Active Roles 7.5.3
- Active Roles 7.5.4
- Active Roles 7.6.1
- Active Roles 7.6.2
- Active Roles 7.6.3
- Active Roles 8.0 LTS
- Active Roles 8.0.1 LTS
- Active Roles 8.1.1
- Active Roles 8.1.2
- For instructions on how to upgrade from an earlier version of Active Roles, see the *Active Roles Quick Start Guide*.
- For instructions on how to install the Active Roles Language Pack, see *Active Roles Language Pack* in the *Active Roles Administration Guide*.
- For special considerations regarding the installation of Active Roles 8.1.3, see the following information.

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 upgrading the Active Roles Administration Service first, and the client components (Active Roles Console and Active Roles Web Interface) afterwards.



#### **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 8.1.3. Otherwise, Active Roles will not receive the required permissions for managing existing Azure tenants, and tenant administration in Active Roles 8.1.3 will not work correctly. For more information, see *Reconfiguring Azure tenants during upgrade configuration* in the *Active Roles Quick Start Guide*.

#### **Upgrade information related to Active Roles Synchronization Service**

NOTE: Active Roles 7.5 introduced support for Modern Authentication in the Azure BackSync workflows of the Active Roles Synchronization Service. After upgrading to Active Roles 8.1.3 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.

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 backsynchronization, see *Configuring automatic Azure BackSync* in the *Active Roles Synchronization Service Administration Guide*.

If you have sync workflows configured and run by Quick Connect (the predecessor of Synchronization Service), or earlier versions of Active Roles Synchronization Service, then you can transfer those sync workflows to the current version of Active Roles Synchronization Service.

You can transfer sync workflows from the following Quick Connect or Active Roles Synchronization Service versions:

- Quick Connect for Active Directory 6.1
- Quick Connect for AS400 1.4
- Quick Connect for Base Systems 2.4
- Quick Connect for Cloud Services 3.7
- Quick Connect for RACF 1.3
- Quick Connect Sync Engine 5.5 and 6.1
- Synchronization Service 7.5 and later

For more information, see *Transferring sync workflows from Quick Connect* in the *Active Roles Synchronization Service Administration Guide*.



### More resources

Additional information is available from the following:

- 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.

## **Active Roles Language Pack**

Available for download from the One Identity Support Portal, the Active Roles Language Pack provides product localization for Active Roles. To enable localization, install the Language Pack on the machine(s) running the Active Roles Administration Service, Configuration Center, Console, Synchronization Service or Web Interface components.

The Active Roles Language Pack supports the following languages:

- For the Active Roles Administration Service, Configuration Center, Console and Synchronization Service components, the Language Pack provides support for German language.
- For the Active Roles Web Interface component, the Language Pack provides support for the following languages:
  - Chinese (Simplified and Traditional)
  - French
  - German
  - Portuguese (Brazilian and European)
  - Spanish

For more information on the features, limitations and installation steps of the Language Pack, see *Active Roles Language Pack* in the *Active Roles Administration Guide*.



### **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 <a href="https://www.oneidentity.com/company/contact-us.aspx">https://www.oneidentity.com/company/contact-us.aspx</a>.

# **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 <a href="https://support.oneidentity.com/">https://support.oneidentity.com/</a>.

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

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

### **Third-party contributions**

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



**Table 30: List of Third-Party Contributions** 

Component	License or Acknowledgment
Active Directory Authentication Library 5.2.9.0	Copyright (c) Microsoft Corporation. All rights reserved. Licensed under the MIT License (the "License");
	Open Source Initiative OSI - The MIT License (MIT) 2012
AngleSharpCss 0.16.4	Licensed under MIT
	For the component license, see:
	https://www.nuget.org/packages/AngleSharp/0.16. 0?_src=template
Azure.Core 1.25.0	MIT Template 2020
Azure.Identity 1.4.1	MIT Template 2020
Azure.Identity 1.6.0	MIT Template 2020
Bootstrap 3.2	MIT N/A
BouncyCastle 1.8.9	MIT N/A
ComponentArt Web.UI for ASP.NET 2011.1.1134.35	Component Art Web.UI Suite Enterprise License
HtmlSanitizer 7.1.488	MIT Template 2020
JQuery 3.6.0	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/
MediatR 9.0.0	Licensed under Apache 2.0
inculativ 5.0.0	License terms can be found at: https://index.whitesourcesoftware.com/gri/app/read er/resource/content/asString/4409aafb-02af-45e7- 9db1-ec9f906652a2
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Microsoft.AspNet.SignalR.Core 2.4.3	© Microsoft Corporation. All rights reserved. MICROSOFT .NET LIBRARY 1.0
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	License terms can be found at: https://github.com/dotnet/core- setup/blob/master/LICENSE.TXT
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Microsoft.Extensions.Caching.Ab stractions 2.2.0	Copyright © .NET Foundation and Contributors Licensed under Apache 2.0.
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Microsoft.Extensions.Configurati on.CommandLine 2.2.0	Copyright © .NET Foundation and Contributors Licensed under Apache 2.0.
Microsoft.Extensions.Configurati on.EnvironmentVariables 2.2.0	Licensed under Apache 2.0  License terms can be found at: https://index.whitesourcesoftware.com/gri/app/read er/resource/content/asString/65cde14b-1ebb-46bf- 8141-e3e2ea7c094b
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Microsoft.Extensions.Configurati on.Json 2.2.0	Copyright © Microsoft Corporation
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Microsoft.Extensions.Configurati on.UserSecrets 2.2.0	Licensed under Apache 2.0
	License terms can be found at: https://index.whitesourcesoftware.com/gri/app/read er/resource/content/asString/4cc9ac4c-7aa2-45c0- 86e2-5f1e212a4865



Component	License or Acknowledgment
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	Copyright © Microsoft Corporation
Microsoft.Extensions.Dependenc yInjection 2.2.0	Copyright © .NET Foundation and Contributors
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Microsoft.Extensions.Dependenc yInjection.Abstractions 2.2.0	Copyright $©$ .NET Foundation and Contributors
	Licensed under Apache 2.0.
Microsoft.Extensions.Dependenc	Copyright © Microsoft Corporation
yModel 2.1.0	Licensed under MIT 1.0
Microsoft.Extensions.FileProvide rs.Abstractions 2.2.0	Copyright © Microsoft Corporation
	Licensed under Apache 2.0.
Microsoft.Extensions.FileProvide	Licensed under Apache 2.0
rs.Composite 2.2.0	License terms can be found at: https://index.whitesourcesoftware.com/gri/app/read er/resource/content/asString/22b07873-ca8c-4771- 81d3-98f39d378d2c
	License terms can be found at: https://raw.githubusercontent.com/aspnet/AspNetCore/2.0.0/LICENSE.txt
	Copyright © Microsoft Corporation
Microsoft.Extensions.FileProvide	Copyright © Microsoft Corporation
rs.Physical 2.2.0	Licensed under Apache 2.0.
Microsoft.Extensions.FileSystem	Copyright © Microsoft Corporation
Globbing 2.2.0	Licensed under Apache 2.0.
Microsoft.Extensions.Hosting.Ab	Licensed under Apache 2.0
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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.

