

Active Roles 8.0 LTS

Release Notes

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These release notes provide information about the Active Roles 8.0 LTS 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 8.0 LTS is major release with no new functionality. See [Enhancements](#) and [Resolved issues](#).

Enhancements

The following is a list of enhancements implemented in Active Roles 8.0 LTS.

Table 1: Language Pack enhancements

Enhancement	Issue ID
The Active Roles Language Pack has been updated for Active Roles 8.0 LTS, supporting the following languages: <ul style="list-style-type: none">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	315454

Enhancement

Issue ID

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*.

Resolved issues

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

Table 2: Administration Service resolved issues

Resolved Issue	Issue ID
<p>Previously, when the Active Roles Administration Service was configured to use a Group Managed Service Account (gMSA), using a SecureString parameter resulted in the following exception:</p> <pre>Object reference not set to an instance of an object.</pre> <p>The issue is now fixed: to avoid the exception, null checks have been included at the Encrypt and Decrypt methods of PowerShellCryptography.</p>	296257

Table 3: Configuration Center resolved issues

Resolved Issue	Issue ID
<p>Previously, Active Roles did not create Web Interface logs even if Web Interface logging was enabled in the Active Roles Configuration Center.</p> <p>The issue was caused by certain logging configuration elements introduced in Active Roles 7.6, and is now fixed.</p>	329809

Table 4: Console (MMC Interface) resolved issues

Resolved Issue	Issue ID
<p>Previously, when right-clicking a built-in system object, for example a policy, the Rename and Rename operations were available, which could cause issues during configuration import (due to a constraint check for duplicate DNs in tables).</p> <p>The issue is now fixed: the Rename and Delete operations are not available for built-in system objects, such as script modules, scheduled tasks, policies and virtual attributes.</p>	314303
<p>Previously, when copying Built-in Policy - Password Generation, clicking Generate Password for a user generated a password according to the parameters set in the original policy instead of the copy.</p> <p>The issue is now fixed.</p>	91662
<p>Previously, adding hybrid users to Microsoft 365 (M365) groups via the Group Membership AutoProvisioning Policy did not work.</p> <p>The issue is now fixed: the method of adding Azure users to a group has been changed to check if the edsvaAzureObjectId virtual attribute of Azure has a value. If the value is set, the Azure user is added to the M365 group.</p>	289042
<p>Previously, within workflows, the value of the SecureString script parameter was displayed incorrectly in plain text.</p> <p>The issue is now fixed and within the workflow, the value of the SecureString script parameter is displayed and stored correctly with asterisks instead of plain text.</p>	312508

Table 5: Installer resolved issues

Resolved Issue	Issue ID
<p>Previously, when the Active Roles installer was checking for components during installation, if the name of the ExchangeOnlineManagement module installation folder was in lowercase instead of camel case, the installation failed.</p> <p>The issue is now fixed and now when the installer checks for the installation paths of the installed components, the installation does not fail due to different cases.</p>	314234

Table 6: Language Pack resolved issues

Resolved Issue	Issue ID
<p>Previously, when managing an Azure tenant with a Federated or Synchronized</p>	200325

Resolved Issue	Issue ID
<p>Identity domain type, the Add, Save, and Cancel buttons were not available in the Exchange Online Properties window in any localization other than English.</p> <p>This issue has been fixed.</p>	
Added localization for the Azure Properties > OneDrive page of the Active Roles Web Interface.	166929
Added German localization for the Configure Azure BackSync window in the Active Roles Synchronization Service console.	128707
Previously, the tab name in the About window was not clearly visible and was not translated to German. These issues have been fixed.	127906

Table 7: Synchronization Service resolved issues

Resolved Issue	Issue ID
<p>Previously, after configuring Microsoft Azure Active Directory Connect, the Azure AD Connector could not detect and retrieve the Azure extension attribute values.</p> <p>The issue is now fixed and now the Azure AD Connector can retrieve the Azure extension attribute values from Microsoft Azure Active Directory Connect.</p>	314567
<p>Previously, when creating a synchronization workflow or running scheduled workflows in Azure BackSync, token authentication could fail, causing the access token to become invalid.</p> <p>The issue is now fixed by adding an additional connect call to Azure and updating the token lifetime evaluation so that Active Roles will reauthenticate the token when necessary.</p>	314369, 91785
<p>Previously, when importing a CSV Connector, checking the info attribute of a newly created object was defined as multi-valued even if the Attribute is multi-valued check box in Schema Settings > Edit... was not selected. This resulted in the following error after committing the changes:</p> <div style="background-color: #f0f0f0; padding: 10px; margin: 10px 0;"> <p>An error occurred while creating the object 'testuser'. Administrative Policy returned an error. The attribute 'info' is a single-value attribute.</p> </div> <p>The issue is now fixed: importing a CSV connector does not ignore multi-valued inputs in Schema Settings, so when the Attribute is multi-valued check box is not selected, the delimited text value is treated as single-valued.</p>	304970
Previously, after configuring an Azure SQL database with SQL authentication, then restarting the Synchronization Service caused the following error	288404

Resolved Issue

Issue ID

message to appear:

```
Synchronization Service requires a configured database. Configure a database and then try again.  
The user does not have the required permissions to work with the database. Add the user to the db_owner role in the database and restart Synchronization Service.  
Specified cast is not valid.
```

The issue is now fixed: Active Roles Synchronization Service can now store configuration data on the Azure SQL database server.

Table 8: Web Interface resolved issues

Resolved Issue	Issue ID
<p>Previously, adding or modifying an attribute on any form of the Web Interface could result in the following error after saving and reloading the form:</p> <pre>Error: Unable to load Web Interface configuration. Incorrect configuration data received from Administration Service or configuration data corrupted on the web server.</pre> <p>This issue has been fixed, so you can now customize forms with new or modified attributes without any errors.</p>	328823
<p>Previously, when using the Quick Search bar of the Web Interface with a user that had no permission to access the Azure tenants of their organization, the Web Interface returned a Value cannot be null error.</p> <p>This issue has been fixed, and the Web Interface now shows an empty result window instead of an error in such cases.</p>	328779
<p>Previously, when using a customized Web Interface, importing it after an Active Roles upgrade could result in an Index was outside the bounds of the array error.</p> <p>The problem was caused by an XML handler issue, and has been fixed so that customized Web Interface deployments can now be loaded without errors.</p>	325484
<p>Previously, clicking Help or Help Topics resulted in a 404 Not Found error message.</p> <p>The issue is now fixed: since the <i>Active Roles Administration Guide</i> contains all of the help topics, the non-functional links have been removed from the Active Roles Web Interface.</p>	315227
<p>Previously, when enabling JavaScript and creating a button to run a workflow by following the instructions in Knowledge Base Article 4257804, the button</p>	311021

Resolved Issue

Issue ID

did not work and caused the Web Interface to display the following error:

```
An error occurred during the last operation.  
Error: Property accessor 'TaskOnClickJS' on object 'ActiveRoles.Web.Application.Controls.TaskBoxList.TaskItemPresenter' threw the following exception: 'Object reference not set to an instance of an object.'
```

The issue is fixed: adding a button to the homepage of the Active Roles Web Interface can run JavaScript and trigger workflows without breaking the Web Interface.

Previously, the collapse button on the sidebar did not appear because its element name was incorrect. 303341

The issue is now fixed and the collapse button on the sidebar is visible again.

Previously, in the **Exchange Properties** of an Exchange-enabled user, after modifying and saving **Delivery Options** in **Mailflow Settings**, saving **Exchange Properties** of the user caused the window to become blank instead of closing properly. 300554

The issue is fixed and now after saving changes, windows and dialog boxes close properly in the Web Interface.

Previously, after logging in, the welcome message did not display special characters correctly in the name of the user. 292824

The issue is fixed and now special characters appear correctly in the user name.

Previously, if the **Reset Password** action of the Web Interface was customized to be read-only, users could reset passwords even by leaving the **Password** and **Confirm password** fields blank. 288131

This issue has been fixed by modifying the password validation method, so the **Reset Password** action now correctly displays an error message for blank passwords even if the action is customized to be read-only.

Previously, when trying to set the `msExchHideFromAddressList` attribute, the following error appeared: 276224

```
Administrative Policy returned an error.  
Object reference not set to an instance of an object.
```

The issue occurred in environments where the Active Directory schema was extended for Exchange, but Microsoft Exchange was either not installed, or it was disabled.

Resolved Issue	Issue ID
The issue is now fixed: if there is no Exchange to connect to, Active Roles sets this attribute directly in Active Directory.	
Previously, when trying to customize any object using any web browser except Internet Explorer, clicking the Edit icon on tabs reloaded the page instead of opening the edit form. The issue is now fixed and the Edit button works correctly using any of the supported web browsers (Mozilla Firefox, Google Chrome, Microsoft Edge).	241901
Previously, when saving a Personal View, the saved .csv export file did not contain the columns added to the view. The issue is fixed and now when clicking Save to File... , the saved .csv export file contains the additional columns.	100760

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 9: General known issues

Known Issue	Issue ID
Activating the EnableAntiForgery key (<code><add key="EnableAntiForgery" value="true"/></code> in web.config) may cause the following error message:	91977
<pre>Session timeout due to inactivity. Please reload the page to continue.</pre>	

Workaround

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

1. Open **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**.

Known Issue	Issue ID
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 10: Configuration Center known issues

Known Issue	Issue ID
When configured for Groups 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 11: Console (MMC Interface) known issues

Known Issue	Issue ID
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. Workaround One Identity recommends scheduling the workflows with different scripts or at a different time.	200328
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 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. Workaround To view the deprovisioning results of an Azure AD user: <ul style="list-style-type: none"> In the Active Roles Console, right-click and select Deprovisioning Results. In the right pane of the Active Roles Web Interface, click 	91901

Known Issue	Issue ID
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Deprovisioning Results.

- To refresh the form, press **F5**.

Table 12: 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 13: Language Pack known issues

Known Issue	Issue ID
In the Active Roles Configuration Center, changing the language in Global settings does not work properly.	125880
Workaround	
To change the language of the Web Interface, configure the language with the Active Roles 8.0 > Settings > User interface language option of the Web Interface.	
In the Active Roles Console, the O365 script execution configuration 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 Event Viewer 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 14: Synchronization Service known issues

Known Issue	Issue ID
<p>In the Active Roles Synchronization Service, the following attributes of the Microsoft Azure AD Connector are currently not supported and cannot be queried via the Microsoft Graph API:</p> <ul style="list-style-type: none">• user attributes:<ul style="list-style-type: none">• aboutMe• birthday• contacts• hireDate• interests• mySite• officeLocation• pastProjects• preferredName• responsibilites• schools• skills• group attributes:<ul style="list-style-type: none">• acceptedSenders• allowExternalSenders• autoSubscribeNewMembers• hasMembersWithLicenseErrors• hideFromAddressLists• hideFromOutlookClients• isSubscribedByMail• membersWithLicenseErrors• rejectedSenders• unseenCount	304074
<p>This means that although these attributes are visible, they cannot be set in a mapping rule.</p>	
<p>After running the get-qcworkflowstatus cmdlet in the Synchronization Service, the workflow status is not accurate.</p>	125768

Table 15: Web Interface known issues

Known Issue	Issue ID
<p>If 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.</p> <p>Workaround</p> <p>Restart the Administration Service.</p>	293380
<p>In the Active Roles Web Interface, Azure roles are not restored automatically after performing an Undo Deprovision action on a user.</p> <p>Workaround</p> <p>After the Undo Deprovision action is completed, assign the Azure roles to the user manually.</p>	172655
<p>Active Roles does not support creating Azure groups for existing groups.</p>	117015
<p>Active Roles Web Interface does not support setting the Exchange Online Property of the ProhibitSendQuota value in Storage Quotas.</p>	91905

System requirements

Before installing ARS 8.0 LTS, 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.

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

Requirement	Details
<p>Exchange Online PowerShell V2 module 2.0.3</p>	<p>You must install Exchange Online PowerShell V2 module version 2.0.3 (or newer) on the computer(s) running Active Roles Administration Service. For installation instructions, see Install and maintain the EXO V2 module in the <i>Microsoft Azure Exchange PowerShell documentation</i>.</p>
<p>Az.Accounts PowerShell module 2.5.3</p>	<p>You must install Az.Accounts PowerShell module version 2.5.3 (or older) on the computer(s) running Active Roles Administration Service and Active Roles Synchronization Service. For installation instructions, see Az.Accounts 2.5.3 in the <i>Microsoft PowerShell Gallery</i>.</p>
<p>SharePoint Online Manage-</p>	<p>You must install SharePoint Online Management Shell on the computer running Active Roles Administration Service. For installation instruc-</p>

Requirement	Details
ment Shell - x64	tions, see Get started with SharePoint Online Management Shell in the <i>Microsoft SharePoint PowerShell documentation</i> .
Microsoft Edge WebView2 Runtime	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 <i>Microsoft Edge Developer documentation</i> .
(Optional) One Identity certificate	If your organization enforces the AllSigned policy, you must install the One Identity certificate during the installation of Active Roles.

Hardware requirements

Table 16: Hardware requirements

Requirement	Details
Processor	<p>For Administration Service, Web Interface and Synchronization Service, any of the following:</p> <ul style="list-style-type: none"> • Intel 64 (EM64T) • AMD64 • Minimum 2 cores • CPU speed: 2.0 GHz or faster <p>NOTE: For Synchronization Service, One Identity recommends using a multi-core CPU 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 • CPU speed: 1.0 GHz or faster.
Memory	<p>Administration Service: A minimum of 4 GB of RAM.</p> <hr/> <p>Web Interface, Synchronization Service: A minimum of 2 GB of RAM.</p> <hr/> <p>Console, Management Tools: A minimum of 1 GB of RAM.</p>

Requirement	Details
Hard disk space	<p>Administration Service, Web Interface, Console, Management Tools:</p> <p>A minimum of 100 MB of free disk space.</p> <hr/> <p>Synchronization Service:</p> <p>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>
Operating system	<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 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016 <p>Active Roles supports the Standard or Datacenter edition of these operating systems.</p> <p>In addition, you can install the Active Roles 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).

Component requirements

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 17: Administration Service requirements

Requirement	Details
SQL Server	<p>You can host the Active Roles database on the following SQL Server versions:</p> <ul style="list-style-type: none"> • Microsoft SQL Server 2019, any edition.

Requirement	Details
	<ul style="list-style-type: none"> • 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. • Azure SQL hosted databases. <p>To connect Active Roles to a Microsoft SQL Server deployment, the following driver is required:</p> <ul style="list-style-type: none"> • Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).
Windows Management Framework	Windows Management Framework 5.1 (available for download) is required on all supported operating systems.
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>NOTE: 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 not supported. For more information, see Knowledge Base Article 202695.</p>

Table 18: Web Interface requirements

Requirement	Details
Internet Services	<p>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

Requirement	Details
	<ul style="list-style-type: none"> • Static Content • HTTP Redirection • 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 <p>Configure Internet Information Services (IIS) to provide Read/Write delegation for the following features:</p> <ul style="list-style-type: none"> • Handler Mappings • Modules • Use Feature Delegation in 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 Active Roles Web Interface. However, the Active Roles Web Interface was tested only with the browser versions listed above.</p>
Minimum screen resolution	<p>Active Roles Web Interface is optimized for screen resolutions of 1280x800 or higher.</p> <p>The minimum supported screen resolution is 1024x768.</p>

Table 19: Console requirements

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

Table 20: 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 21: Synchronization Service requirements

Requirement	Details
SQL Server	You can host the Active RolesSynchronization Service database on: <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: Active Roles Synchronization Service does not support Azure SQL hosted databases.</p>
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 style="list-style-type: none"> • Microsoft Active Directory Domain Services (AD DS) with the domain or forest functional level of Windows Server 2016 or higher. • Microsoft Active Directory Lightweight Directory Services (AD LDS) running on any Windows Server operating system supported by Microsoft. • The following Microsoft Exchange Server versions: <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 not supported. For</p>

Requirement	Details
	<p> 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 (Azure AD) 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). • 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 SCIM-based data import operations. • 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, install the Active Roles ADSI Provider. For more information, see <i>Installing additional components in the Active Roles Quick Start Guide</i> .
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 reliable Internet connection.

Table 22: Synchronization Service Capture Agent requirements

Requirement	Details
Operating system	<p>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:</p> <ul style="list-style-type: none">• Microsoft Windows Server 2022• Microsoft Windows Server 2019• Microsoft Windows Server 2016 <p>For more information, see the <i>Active Roles Synchronization Service Administration Guide</i>.</p>

Table 23: Language Pack requirements

Requirement	Details
Active Roles version	<p>The Active Roles 8.0 LTS Language Pack requires Active Roles version 8.0 LTS of the Administration Service, Configuration Center, Console, Synchronization Service or the Web Interface installed on the target machine.</p> <p>The Active Roles 8.0 LTS Language Pack will not work properly with earlier versions of Active Roles.</p>
Operating system	<p>You can install the Active Roles Language Pack on 64-bit operating systems only.</p>

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 installation instructions

You can upgrade any 7.x version of Active Roles to Active Roles 8.0 LTS.

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

- 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 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 8.0 LTS, 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 reauthorize them after installing Active Roles 8.0 LTS. Otherwise, Active Roles will not receive the required permissions for managing existing Azure tenants, and tenant administration in Active Roles 8.0 LTS 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 the Azure BackSync workflows of the Active Roles Synchronization Service. After upgrading to Active Roles 8.0 LTS 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*.

⚠ CAUTION: Starting from Active Roles 7.6, Starling Two-Factor Authentication (2FA) is no longer supported and has been removed from Active Roles. If you use Starling with Starling 2FA enabled, before upgrading to Active Roles 8.0 LTS, disable Starling 2FA to remove it from your Starling configuration. Upgrading from an earlier Active Roles 7.x version to Active Roles 8.0 LTS with Starling 2FA enabled can result in Active Roles not working as intended.

1. To disable Starling 2FA, in the Active Roles Configuration Center, navigate to Starling > Starling 2FA and clear the Enable Starling 2FA check box.
2. (Optional) To unjoin Starling, in the Active Roles Configuration Center, navigate to Starling, and click Unjoin One Identity Starling.

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*.

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Microsoft Exchange Web Services Managed API 2.2

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