

Active Roles

Release Notes

Version 8.2.1 SP6

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These release notes provide information about the Active Roles 8.2.1 release and its service packs. For the most recent documents and product information, see the [Online product documentation](#).

Active Roles 8.2.1 SP6

Active Roles 8.2.1 SP6 (build 8.2.1.149) is a standalone service pack release containing additional enhancements and resolved issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

For more information, see the following resources:

- [Enhancements in Active Roles 8.2.1 SP6](#)
- [Resolved issues in Active Roles 8.2.1 SP6](#)

Active Roles 8.2.1 SP5

Active Roles 8.2.1 SP5 (build 8.2.1.133) is a standalone service pack release containing additional enhancements and resolved issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

For more information, see the following resources:

- [Enhancements in Active Roles 8.2.1 SP5](#)
- [Resolved issues in Active Roles 8.2.1 SP5](#)
- [Known issues in Active Roles 8.2.1 SP5](#)

NOTE: If you upgrade from Active Roles 8.2.1 SP4 (build 8.2.1.69) to 8.2.1 SP5 (build 8.2.1.133) and you manage dynamic groups in an environment with multiple Administration Service instances, then One Identity STRONGLY recommends applying changes to your existing dynamic group configuration. For more information, see [Changing Administration Service instances to manage dynamic groups with optimal performance](#).

Active Roles 8.2.1 SP4

Active Roles 8.2.1 SP4 (build 8.2.1.69) is a standalone service pack release containing additional deprecated features, enhancements and resolved issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

For more information, see the following resources:

- [Deprecated features in Active Roles 8.2.1 SP4](#)
- [Resolved issues in Active Roles 8.2.1 SP4](#)
- [Known issues in Active Roles 8.2.1 SP4](#)
- [Enhancements in Active Roles 8.2.1 SP4](#)

Active Roles 8.2.1 SP3

Active Roles 8.2.1 SP3 (build 8.2.1.33) is a standalone service pack release containing additional deprecated features and resolved issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

For more information, see the following resources:

- [Deprecated features in Active Roles 8.2.1 SP3](#)
- [Enhancements in Active Roles 8.2.1 SP3](#)
- [Resolved issues in Active Roles 8.2.1 SP3](#)

Active Roles 8.2.1 SP2

Active Roles 8.2.1 SP2 (build 8.2.1.30) is a standalone service pack release containing additional resolved issues compared to Active Roles 8.2.1 SP1 (build 8.2.1.27) and the initial Active Roles 8.2.1 release (build 8.2.1.15).

For more information, see the following resources:

- [Known issues in Active Roles 8.2.1 SP2](#)
- [Resolved issues in Active Roles 8.2.1 SP2](#)

Active Roles 8.2.1 SP1

Active Roles 8.2.1 SP1 (build 8.2.1.27) is a standalone service pack release containing additional deprecated features, enhancements and resolved issues compared to the original Active Roles 8.2.1 release (build 8.2.1.15).

For more information, see the following resources:

- [Deprecated features in Active Roles 8.2.1 SP1](#)
- [Enhancements in Active Roles 8.2.1 SP1](#)
- [Resolved issues in Active Roles 8.2.1 SP1](#)

Active Roles 8.2.1

Active Roles 8.2.1 (build 8.2.1.15) is a patch release with new features and functionality. See [New features](#) on page 3 and [Enhancements](#) on page 8.

IMPORTANT: Starting from Active Roles 8.2.1, the Microsoft OLE DB Driver requirements have changed. These changes require additional configuration steps to perform before upgrading or installing Active Roles. Failure to complete these steps might result in the Active Roles Service not starting. For more information, see [Microsoft OLE DB Driver for SQL Server security impacts](#).

New features

Active Roles 8.2.1 and its service packs contain the following new features. Newer service packs cumulatively contain the new features of previous service packs and the initial Active Roles 8.2.1 release.

New features in Active Roles 8.2.1 SP6

Active Roles 8.2.1 SP6 (build 8.2.1.149) introduces no new features compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

New features in Active Roles 8.2.1 SP5

Active Roles 8.2.1 SP5 (build 8.2.1.71) introduces no new features compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

New features in Active Roles 8.2.1 SP4

Active Roles 8.2.1 SP4 (build 8.2.1.69) introduces no new features compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

New features in Active Roles 8.2.1 SP3

Active Roles 8.2.1 SP3 (build 8.2.1.33) introduces no new features compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

New features in Active Roles 8.2.1 SP2

Active Roles 8.2.1 SP2 (build 8.2.1.30) introduces no new features compared to Active Roles 8.2.1 SP1 (build 8.2.1.27) and the initial Active Roles 8.2.1 release (build 8.2.1.15).

New features in Active Roles 8.2.1 SP1

Active Roles 8.2.1 SP1 (build 8.2.1.27) introduces no new features compared to Active Roles 8.2.1 (build 8.2.1.15).

New features in Active Roles 8.2.1

Active Roles 8.2.1 (build 8.2.1.15) introduces the following new features.

- **Azure Government tenant support:** Active Roles and Active Roles Synchronization Service now support connecting to and managing the objects of Azure Government (GCC and GCC-H) tenants.
 - In Active Roles, you can connect to Azure Government tenants via the Active Roles Configuration Center. After adding the Azure Government tenant and consenting Active Roles as an Azure application, you can manage the objects of the Azure Government tenant via the Active Roles Web Interface or the Managed Unit feature of the Active Roles Console.
 - In Active Roles Synchronization Service, you can configure the Azure AD Connector, the Microsoft 365 Connector and Azure BackSync to synchronize the resources of Azure Government tenants.

For more information, see the following resources:

- For more information on Azure Government tenants, see [Compare Azure Government and global Azure](#) in the *Microsoft Azure documentation*.
- For more information on how to connect Active Roles to an Azure Government tenant and consent Active Roles as an Azure application through the Active Roles Configuration Center, see *Configuring a new Azure tenant and consenting Active Roles as an Azure application* in the *Active Roles Administration Guide*.
- For more information on how to configure Azure BackSync for Azure Government tenants, see *Configuring Azure BackSync* in the *Active Roles Synchronization Service Administration Guide*.
- For more information on how to configure the Azure AD Connector or the Microsoft 365 Connector for Azure Government tenants, see *Creating a Microsoft Azure Active Directory connection* or *Creating a Microsoft 365 connection* in the *Active Roles Synchronization Service Administration Guide*.
- **Azure BackSync replacement:** Active Roles now supports the Azure BackSync feature via the associated BackSync Replacement built-in script and workflow, which are available in the Active Roles Console. This feature replaces the Azure BackSync operation of the Active Roles Synchronization Service.

For more information, see *About the BackSync Replacement workflow* in the *Active Roles Administration Guide*.

Related topics

- [Deprecated features](#).
- [Enhancements](#) on page 8.
- [Resolved issues](#) on page 14.
- [Known issues](#) on page 31.

Deprecated features

The following is a list of features that are no longer supported starting with Active Roles 8.2.1 and its service packs. Newer service packs cumulatively deprecate the features that were deprecated in previous service packs and the initial Active Roles 8.2.1 release.

Deprecated features in Active Roles 8.2.1 SP6

Active Roles 8.2.1 SP6 (build 8.2.1.149) has no additional deprecated features compared to previous Active Roles service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Deprecated features in Active Roles 8.2.1 SP5

Active Roles 8.2.1 SP5 (build 8.2.1.71) has no additional deprecated features compared to previous Active Roles service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Deprecated features in Active Roles 8.2.1 SP4

NOTE: The following features were deprecated starting from Active Roles 8.2.1 SP4 (build 8.2.1.69). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Obsolete dynamic group attribute: The Mode dynamic group-specific attribute (used to specify if cross-domain membership had been enabled for the specific dynamic group) is now deprecated and is no longer available in the XML configuration of dynamic groups.

To enable or disable cross-domain membership for all dynamic groups, configure the **Built-in Policy - Dynamic Groups** Policy Object, as described in [Configuring policy options for dynamic groups](#) in the *Active Roles Administration Guide*.

If you have any dynamic groups created in an earlier version of Active Roles whose XML configurations use this attribute, then the Active Roles Administration Service will remove it from the groups' XML configurations the next time Active Roles caches the dynamic groups.

Deprecated features in Active Roles 8.2.1 SP3

NOTE: The following features were deprecated starting from Active Roles 8.2.1 SP3 (build 8.2.1.33). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Configuring cross-domain membership for individual dynamic groups: Removed the possibility to configure cross-domain membership for dynamic groups individually with the `edsvaDGCrossDomainMembershipEnabled` virtual attribute.

Starting from Active Roles 8.2.1 SP3, you can configure cross-domain membership only on a policy level as described in [Configuring policy options for dynamic groups](#) in the *Active Roles Administration Guide*.

For more information, see resolved issue 502859 in [Resolved issues in Active Roles 8.2.1 SP3](#).

Deprecated features in Active Roles 8.2.1 SP2

Active Roles 8.2.1 SP2 (build 8.2.1.30) has no additional deprecated features compared to Active Roles 8.2.1 SP1 (build 8.2.1.27) and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Deprecated features in Active Roles 8.2.1 SP1

NOTE: The following features were deprecated starting from Active Roles 8.2.1 SP1 (build 8.2.1.27). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

- **Dynamic group cache rebuilds:** Removed unnecessary dynamic group cache rebuilds. Active Roles now rebuilds the cache of dynamic groups only if:
 - The Administration Service starts.
 - The **Dynamic Group Updater** task runs.

- You click **Rebuild** in the **Properties > Members** tab of the dynamic group.
- **Dynamic Group Checker task:** Disabled the built-in **Dynamic Group Checker** scheduled task, as Active Roles Administration Service now runs dynamic group checks and dynamic group policy change checks automatically whenever needed. If any errors occur, Active Roles now applies fallbacks.

NOTE: Although the **Dynamic Group Checker** task might still appear in the list of built-in scheduled tasks after upgrading to Active Roles 8.2.1 SP1, the task is no longer functional. To remove the task from the list of built-in scheduled tasks, perform a clean installation of Active Roles 8.2.1 SP1.

- **Obsolete dynamic group attributes:** The following dynamic group-specific attributes are now deprecated and no longer available in the XML configuration of dynamic groups:
 - ConditionDetails
 - ErrorReport
 - HasNestedGroups
 - TimeStamp

If you have any dynamic groups created in an earlier version of Active Roles whose XML configurations use these attributes, then the Active Roles Administration Service will remove them from the groups' XML configurations the next time Active Roles caches the dynamic groups.

In addition, the following dynamic group-specific virtual attributes are also deprecated:

- **edsaDGStatus:** This virtual attribute contained the value of the now-deprecated `ErrorReport` XML attribute. Instead of the configuration XML, dynamic group-specific logs are now logged in the system log and in the Active Roles Administration Service log, if enabled. For more information, see [Logging management tasks](#) in the *Active Roles Administration Guide*.
- **edsaDGHasNestedGroups:** This virtual attribute provided a workaround for Windows Server 2003 systems, allowing administrators to create dynamic groups containing more than 500 members by nesting them into nested groups. As Windows Server 2003 is no longer supported and newer versions of Windows Server support up to one million members per group, this attribute and the support for nested groups have been deprecated.
- **edsvaDGMembershipRuleStorage:** This attribute has been deprecated with the dynamic group enhancements of Active Roles 8.2.1. For more information, see [Enhancements in Active Roles 8.2.1 SP1](#).
- **Obsolete dynamic group events and log messages:** Removed obsolete dynamic group-related log messages and system events. Active Roles now shows only error-related log messages and system events. To follow membership changes, use the **Change History** tab of the Active Roles Web Interface after selecting a dynamic group.

Deprecated features in Active Roles 8.2.1

Active Roles 8.2.1 (build 8.2.1.15) has no deprecated features.

Enhancements

The following is a list of enhancements implemented in Active Roles 8.2.1 and its service packs. Newer service packs cumulatively contain the enhancements of previous service packs and the initial Active Roles 8.2.1 release.

Enhancements in Active Roles 8.2.1 SP6

NOTE: The following enhancements are available starting from Active Roles 8.2.1 SP6 (build 8.2.1.149). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 1: General enhancements

Enhancement	Issue ID
To allow Active Roles administrators to disable full dynamic group rebuild runs after the Administration Service instance started, Active Roles 8.2.1 SP6 introduces a new <code>DynamicGroupRebuildAllAtInit</code> registry key. For more information on how to configure this registry key, see Configuring full dynamic group rebuilds on Administration Service startup in the <i>Active Roles Administration Guide</i> .	700554
To facilitate troubleshooting for potential dynamic group rebuild issues, Active Roles 8.2.1 SP6 introduces a new <code>DynamicGroupUseFastSearch</code> registry key for disabling fast rebuilds. For more information on how to configure this registry key, see Configuring dynamic group fast rebuild operations in the <i>Active Roles Administration Guide</i> .	700553

Enhancements in Active Roles 8.2.1 SP5

NOTE: The following enhancements are available starting from Active Roles 8.2.1 SP5 (build 8.2.1.133). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 2: General enhancements

Enhancement	Issue ID
<p>To improve the granularity and customization of dynamic group logging, Active Roles 8.2.1 SP5 introduces a new <code>DynamicGroupEventLogVerbosity</code> registry key for configuring the verbosity of dynamic group-related logs in Windows Event Viewer.</p> <p>For more information on the available values and configuring this registry key, see Configuring the verbosity of dynamic group logs in the <i>Active Roles Administration Guide</i>.</p>	645937
<p>To improve the performance of dynamic group processing, Active Roles 8.2.1 SP5 introduces a new <code>DynamicGroupParallelHandlingNumber</code> registry key for configuring the number of threads available for automatic dynamic group background processes (like the Dynamic Group Updater scheduled task) and manually-triggered dynamic group rebuild operations.</p> <p>For more information on the available values and configuring this registry key, see Configuring the number of threads for processing dynamic groups in the <i>Active Roles Administration Guide</i>.</p>	645730
<p>Optimized RAM usage for dynamic group processing operations by refactoring delta builds. Starting from Active Roles 8.2.1 SP5, changing the attributes of a dynamic group member no longer results in rebuilding dynamic groups, but instead triggers an LDAP query-based evaluation to update the dynamic group membership of the changed member.</p>	645720
<p>Improved the performance and readability of dynamic group logs by no longer dumping membership auditing logs into Windows Event Viewer.</p> <p>This means that, for example, if a dynamic group updates 1,000 members, then Active Roles Administration Service will not write 1,000 log entries for each member change in Windows Event Viewer.</p>	542908

Enhancements in Active Roles 8.2.1 SP4

NOTE: The following enhancements are available starting from Active Roles 8.2.1 SP4 (build 8.2.1.69). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 3: General enhancements

Enhancement	Issue ID
To improve its performance and readability, Change History logs in the Active Roles Console and the Web Interface no longer indicate dynamic group membership changes (that is, adding or removing members to or from dynamic groups). Dynamic group configuration changes (for example, membership rule changes) are still indicated in Change History logs.	542376
Improved general Active Roles Console and Web Interface performance when loading connected Active Directory domains by explicitly using the DNS of AD domains during login.	518342

Enhancements in Active Roles 8.2.1 SP3

NOTE: The following enhancements are available starting from Active Roles 8.2.1 SP3 (build 8.2.1.33). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 4: Administration Service enhancements

Enhancement	Issue ID
Added new on-screen warnings to the Policy Properties dialog of the Built-in Policy - Dynamic Groups Policy Object to highlight the impacts of disabling the Enable cross-domain membership and Receive directory changes from DirSync settings. For more information, see Configuring policy options for dynamic groups in the <i>Active Roles Administration Guide</i> .	505818

Enhancements in Active Roles 8.2.1 SP2

Active Roles 8.2.1 SP2 (build 8.2.1.30) contains no new enhancements compared to Active Roles 8.2.1 SP1 (build 8.2.1.27) and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Enhancements in Active Roles 8.2.1 SP1

NOTE: The following enhancements are available starting from Active Roles 8.2.1 SP1 (build 8.2.1.27). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 5: Administration Service enhancements

Enhancement	Issue ID
Active Roles 8.2.1 SP1 received the following dynamic group management enhancements: <ul style="list-style-type: none">• To prevent unnecessary dynamic group membership queries during an Active Directory (AD) synchronization (DirSync) event, Active Roles now only checks attributes related to dynamic groups.• Improved dynamic group management and queries. Dynamic group member update queries are now incremental and contain 1,000 items per request.• Fixed potential errors in the built-in Dynamic Group Updater task.• Only delta builds are applied to dynamic groups.• Deprecated several obsolete XML configuration properties, virtual attributes, events, log messages and built-in tasks. For more information, see Deprecated features in Active Roles 8.2.1 SP1.	476498

TIP: After upgrading to Active Roles 8.2.1 SP1, it might occur that dynamic groups are not indicated as dynamic groups, because Active Roles is unable to correctly fetch the list of dynamic groups from the connected domains.

To solve the problem, rebuild the cache of dynamic group data by running the **Dynamic Group Updater** built-in scheduled task from the following container in the Active Roles Console:

Configuration > Server Configuration > Scheduled Tasks > Builtin

Enhancements in Active Roles 8.2.1

NOTE: The following enhancements are available starting from the initial Active Roles 8.2.1 release (build 8.2.1.15).

Table 6: General enhancements

Enhancement	Issue ID
Federated authentication support in Active Roles received the following enhancements: <ul style="list-style-type: none">Active Roles now also supports federated authentication using SAML 2.0, allowing users to access websites or sign in once with the single sign-on (SSO) option.	299431, 437706
<p>NOTE: Federated authentication is not supported and does not work on standalone Web Interface instances.</p> <ul style="list-style-type: none">Active Roles now also supports automatically refreshing expired certificates from the remote store, if federated authentication is configured for the Active Roles Web Interface, but the certificate gets expired and another identity provider, such as Microsoft Entra ID replaces it.	
<p>NOTE: After upgrading Active Roles, always ensure that Active Roles automatically refreshes expired certificates. To do so:</p> <ul style="list-style-type: none">If using WS-Federation, in the Active Roles Configuration Center, in Web Interface > Authentication, reconfigure federated authentication.If using SAML 2.0 authentication, in the Active Roles Configuration Center, in Web Interface > Authentication, configure federated authentication and make sure to load the federation metadata from a URL (instead of loading it from a file).	
For more information, see <i>Configuring federated authentication</i> in the <i>Active Roles Administration Guide</i> .	
Active Roles 8.2.1 has been checked against the following Security Technical Implementation Guidelines (STIGs) of the Defense Information Systems Agency (DISA). <ul style="list-style-type: none">Application Security and DevelopmentMS SQL Server 2016 DatabaseMS SQL Server 2016 Instance	413546

Enhancement	Issue ID
<p>The checks performed during STIG validation are compliant with the following National Institute of Standards and Technology (NIST) Special Publications (SP):</p> <ul style="list-style-type: none"> • NIST SP 800-53 • NIST SP 800-53A • NIST SP 800-53 Revision 4 	

Table 7: Active Roles Configuration Center enhancements

Enhancement	Issue ID
Security enhancements to SAML 2.0 configuration process.	465851
<p>The Active Roles Configuration Center received the following enhancements related to importing Management History:</p> <ul style="list-style-type: none"> • Improved the performance of the Import Management History wizard. The speed of importing Management History data is significantly increased. • Improved the Import Management History wizard user interface. • Added retry policy for SQL exceptions. If the migration fails due to a network related or transient SQL exception, the process now restarts automatically, and the wizard attempts to import the current batch 3 times before canceling the operation. If the migration fails due to other SQL exceptions, the wizard only restarts the migration once. 	433585

For more information, see *Importing Management History data* in the *Active Roles Upgrade Guide*.

Table 8: Active Roles Console enhancements

Enhancement	Issue ID
<p>The Active Roles Console received the following enhancements related to Managed Units:</p> <ul style="list-style-type: none"> • You can now create Managed Units from Azure distribution groups and Azure contacts with any "Include" or "Exclude" membership rules, not just with the Include Explicitly and Exclude Explicitly rules. • If you create or update a Managed Unit query, the Find drop-down list now also lists Azure distribution groups and Azure contacts. 	401787
<p>For more information, see <i>Configuring federated authentication</i> in the <i>Active Roles Administration Guide</i>.</p>	
Improved the performance of the Active Roles Console when listing Azure distribution groups in the Select Objects dialog.	387339

Table 9: Active Roles Synchronization Service enhancements

Enhancement	Issue ID
The Active Roles Synchronization Service Capture Agent component now supports Local Security Authority (LSA). For more information, see Configuring Additional LSA Protection in the <i>Microsoft Windows Server documentation</i> .	125828

Table 10: Active Roles Web Interface enhancements

Enhancement	Issue ID
Improved the performance of the Active Roles Web Interface when loading the list of Azure distribution groups.	387339

Resolved issues

The following is a list of issues addressed in Active Roles 8.2.1 and its service packs. Newer service packs cumulatively contain the resolved issues of previous service packs and the initial Active Roles 8.2.1 release.

Resolved issues in Active Roles 8.2.1 SP6

NOTE: The following issues were fixed starting from Active Roles 8.2.1 SP6 (build 8.2.1.149). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 11: Administration Service resolved issues

Resolved Issue	Issue ID
Previously, when rebuilding the dynamic group cache, the delta builds started using the dynamic group cache before it was fully rebuilt. This could result in <code>System.InvalidOperationException</code> errors appearing in the dynamic group event logs. This issue was fixed by removing the affected dynamic group cache type as part of refactoring the dynamic group matching rule handling.	702386

Resolved Issue	Issue ID
<p>Previously, if sending a search in Active Roles and the domain controller (DC) was unavailable, Active Roles sent a fake response by default, and did not indicate that the DC was unavailable.</p> <p>This incorrect feedback resulted in a false dynamic group condition check, indicating that there were no dynamic group members on the domain that was served by the DC.</p> <p>The issue has been fixed by:</p> <ul style="list-style-type: none"> • Adding an error message to clearly inform users that the search failed because the DC is unavailable. • Tweaked Active Roles Administration Service so that dynamic group management can detect if a DC is unavailable and prevent modifying affected dynamic groups in that case. 	700029
<p>Previously, the Dynamic Group Updater scheduled task processed dynamic groups during startup, even if their members were excluded explicitly from the scope of the dynamic group policy in effect.</p> <p>This resulted in processing directory objects that were not in the scope of the active dynamic group policy, resulting in unnecessary overhead and potentially incorrect membership settings.</p> <p>This issue is now fixed.</p>	697977
<p>Previously, the delta processing of dynamic groups could be too slow (about 30 seconds per request if processing a large number of dynamic groups), resulting in the delta build queue increasing continuously.</p> <p>The issue has been fixed by implementing preliminary filters and adjusting the allowed process time of modify requests in case of dynamic group changes.</p>	697864

Resolved issues in Active Roles 8.2.1 SP5

NOTE: The following issues were fixed starting from Active Roles 8.2.1 SP5 (build 8.2.1.133). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 12: Administration Service resolved issues

Resolved Issue	Issue ID
<p>Previously, upgrading to Active Roles 8.2.1 SP4 from an earlier release (such as Active Roles 8.1.5) might resulted in dynamic groups no longer being updated.</p> <p>The issue has been fixed by introducing additional optimizations in the dynamic group rebuild logic and ensuring that dynamic group XML configuration files are properly updated during the upgrade process, with applicable settings carried over to the new version, while deprecated settings being discarded.</p>	566872
<p>Previously, the Active Roles Administration Service could not update any dynamic groups and populated the Windows Event Viewer with error logs, if the Add this message to the Notes field for each dynamic group setting of the Built-in Policy - Dynamic Groups Policy Object has been cleared, or has been selected but its text box was empty.</p> <p>This issue was caused by Active Roles constantly attempting to set the Notes field of dynamic groups, even if specifying no note or an empty note. The issue has been fixed by making sure that Active Roles sets the notes for dynamic groups only when converting a basic group to a dynamic group.</p>	545631
<p>Previously, when upgrading from Active Roles 8.1.3 to Active Roles 8.2.1 SP2 and opening an external URL in a frame, the left navigation pane and the top navigation bar were missing. The issue is now resolved.</p>	510212

Resolved issues in Active Roles 8.2.1 SP4

NOTE: The following issues were fixed starting from Active Roles 8.2.1 SP4 (build 8.2.1.69). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 13: Administration Service resolved issues

Resolved Issue	Issue ID
<p>Previously, in an environment consisting of a parent domain and a child domain, using:</p> <ul style="list-style-type: none"> • A basic group in the child domain that included only members from its own domain, and 	507927

Resolved Issue	Issue ID
<ul style="list-style-type: none"> A dynamic group in the parent domain that could also include members from the basic group in the child domain, <p>modifying the basic group in the child domain to include members from the parent domain resulted in the dynamic group in the parent domain no longer being updated by Active Roles. This issue has been fixed.</p>	
<p>Previously, after upgrading to Active Roles 8.2.1, the Active Roles Administration Service might take more than 10 minutes to initialize under certain conditions.</p> <p>This issue has been fixed to ensure that the Administration Service starts up much faster now.</p>	503357
<p>Previously, installing Active Roles 8.2.1 SP2 (build 8.2.1.30) might result in significantly increased CPU load on the SQL Servers used by Active Roles.</p> <p>This issue has been fixed.</p>	497501

Resolved issues in Active Roles 8.2.1 SP3

NOTE: The following issues were fixed starting from Active Roles 8.2.1 SP3 (build 8.2.1.33). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 14: Administration Service resolved issues

Resolved Issue	Issue ID
<p>Previously, if Active Roles could not query the membership attribute of dynamic groups (for example, because of network issues), then dynamic groups might appear in Active Roles with their members removed.</p> <p>The issue was caused by incorrect exception handling: if a connection error has occurred when checking the members of a dynamic group, Active Roles continued modifying the dynamic group instead of throwing an exception.</p> <p>The issue was fixed by making sure that if Active Roles receives no valid response from the domain controller due to connection issues, then no changes will be performed in the membership of the dynamic group.</p>	505044
<p>Previously, you could set the cross-domain membership setting for each</p>	502859

Resolved Issue

Issue ID

dynamic group separately by modifying their `edsvaDGCrossDomainMembershipEnabled` virtual attribute. However, this behavior could cause issues in certain customer configurations.

This issue was fixed by removing the possibility of configuring cross-domain membership individually for dynamic groups. Because of this, starting from Active Roles 8.2.1 SP3, you can configure cross-domain membership on a policy level only with the **Enable cross-domain membership** setting of the **Built-in Policy - Dynamic Groups** Policy Object.

Previously, the group scope of dynamic groups was incorrect. If the dynamic group was a local group, then it could only include other local groups as members, but not universal and global groups. 502855

This issue has been fixed by modifying the condition LDAP filters so that dynamic groups can include all group types supported by their group scope.

Previously, if an excluded dynamic group policy link was set to an Organizational Unit, then the dynamic groups might not have worked correctly. In such cases, setting an exclude policy resulted in dynamic groups not appearing as dynamic groups, even after restarting the Active Roles Administration Service. 502706

The issue was caused by a bug in the dynamic group cache building process. When trying to create the dynamic groups, the process checked for excluded policy links, and if it found one, it stopped building the dynamic group cache.

The issue was fixed by implementing additional checks to verify if the dynamic group's Organizational Unit has any excluded dynamic group policies, or any policies at all. If Active Roles cannot find any policies, or finds an excluded dynamic group policy, then it disables the **Convert to Dynamic Group** option in the Active Roles Console.

Previously, primary group members like domain users or domain guest users could not be included in dynamic groups since the dynamic group rework introduced with Active Roles 8.2.1 SP1. 499012

The issue was caused by the **Include Group Members** membership rule of dynamic groups not searching for the `edsaMember` attribute that dynamic groups use to store their members.

The issue was fixed by including the attribute in the search query when searching for possible dynamic group members.

Previously, starting from Active Roles 8.2.1, Active Roles waited for the cloud object delta process to completely finish, even if the delta process has taken an unexpectedly long time to complete. 474735

This issue has been fixed by re-introducing the behavior that was present in Active Roles 8.1.x. Now, Active Roles waits only for a maximum of 2 seconds for the delta process to finish, then continues the current process while the delta process is finishing in the background.

Resolved issues in Active Roles 8.2.1 SP2

NOTE: The following issue was fixed starting from Active Roles 8.2.1 SP2 (build 8.2.1.30). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 15: Administration Service resolved issues

Resolved Issue	Issue ID
<p>Previously, after installing Active Roles 8.2.1 SP1, group families stopped updating and returned the following error in the Active Roles logs:</p> <p>Event ID 2530: Dynamic group: CN=<cn-name>,OU=<dc-name>,DC=<dc-name>,DC=<dc-name>,DC=<dc-name> Error: Invalid xml was set.</p> <p>The issue was caused by the new dynamic group policy introduced in Active Roles 8.2.1 SP1, which incorrectly detected the XML configuration of group families as invalid dynamic group XML configurations.</p> <p>The issue was solved by implementing additional group policy checks to make sure that Active Roles can properly identify and differentiate dynamic group and group family configurations.</p>	494761

Resolved issues in Active Roles 8.2.1 SP1

NOTE: The following issues were fixed starting from Active Roles 8.2.1 SP1 (build 8.2.1.27). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 16: Administration Service resolved issues

Resolved Issue	Issue ID
<p>Previously, the Administration Service could stop populating Azure groups in the Managed Units they were included in.</p> <p>This issue occurred if the related Graph API delta requests ran longer than 1</p>	487053

Resolved Issue	Issue ID
hour, as the access token could expire, resulting in unfinished group membership requests. The issue was solved by making sure that Active Roles acquires a new access token before the current token is expired.	
<p>Previously, it might occur that Active Roles was fully rebuilding dynamic groups (that is, removing and re-adding all members of a dynamic group) indefinitely.</p> <p>This issue is now fixed by:</p> <ul style="list-style-type: none"> • Modifying Active Roles to apply only delta builds to dynamic groups. • Fixing certain issues related to the <code>edsaDG0originatingService</code> virtual attribute by refactoring the relevant functionality of the now-deprecated Dynamic Group Checker task. • Improving dynamic group-related logging. <p>For more information, see Enhancements and Deprecated features.</p>	476498
<p>Previously, adding a new Azure tenant to Active Roles could cause increased memory usage and performance issues on the Active Roles server where the connection to the Azure tenant was configured.</p> <p>This issue was caused by internal search requests for hybrid Azure objects, sent by the Azure cache manager. These search requests triggered unnecessary Exchange Online cmdlet invocations, resulting in memory leaks over time.</p> <p>The issue was solved by optimizing the internal search requests, preventing further memory leaks.</p>	475233
<p>Previously, in the Active Roles Console, if a dynamic group had more than 4,500 members, then opening the Properties > Members > Advanced Properties dialog of a dynamic group and checking the Show all possible attributes setting might result in the following error message:</p> <p>Failed to retrieve attributes of the object. The parameter is incorrect.</p> <p>The same error also occurred when attempting to fetch all dynamic group attributes via the Active Roles Management Shell or attempting to export the dynamic group object.</p> <p>This issue is now fixed, and Active Roles can query dynamic groups regardless of their member size.</p>	251898

Table 17: Web Interface resolved issues

Resolved Issue	Issue ID
Previously, when using the advanced search, all users could view all pending	482220

Resolved Issue	Issue ID
tasks. This issue is now fixed so that Active Roles administrators and designated approvers can view all pending tasks, while non-administrator users can only view their own pending approvals.	
Previously, in the Approval > Pending Tasks page, selecting multiple approve tasks with a non-administrator approver user resulted in the Approve selected and Reject selected buttons remaining disabled, preventing bulk approval or bulk rejection. This issue is now fixed, so bulk approval and rejection is now available for users with approve/reject permissions, even if they are not administrator users.	418218

Resolved issues in Active Roles 8.2.1

NOTE: The following issues were fixed starting from the initial Active Roles 8.2.1 release (build 8.2.1.15).

Table 18: General resolved issues

Resolved Issue	Issue ID
Previously, when performing an in-place upgrade from Active Roles 8.2 to a newer version of Active Roles, the RSTS configuration did not transfer to the new Active Roles version, and the RSTS connection could fail. This issue is now resolved and the RSTS configuration is retained after the upgrade.	465344

Table 19: Add-on Manager resolved issues

Resolved Issue	Issue ID
Previously, attempting to load Active Roles Add-on Manager in the Active Roles Console resulted in the Active Roles Console hanging for several minutes, then failing to properly display Add-on Manager. The issue was caused by a character encoding problem during the Add-on Manager registration process, and was fixed by adjusting the related loading settings.	426052

Table 20: Active Roles Service resolved issues

Resolved Issue	Issue ID
<p>Previously, if Synchronization Service mappings and synchronization workflows were used to synchronize data from an Active Roles 8.2 instance using an imported configuration, mappings and synchronization workflows using the Active Roles Connector might fail with the following error:</p> <p>Synchronization steps aborted. Details: An error occurred while import from 'DC=<dc-name>,DC=com</p> <p>This issue is now fixed.</p>	467585
<p>Previously, in environments where multiple Active Roles service instances were configured, if the Execute on setting of the Dynamic Group Checker built-in scheduled task has been set to its default All servers value instead of a specific service in the Active Roles Console, then the value of the edsADGOriginatingService attribute of dynamic groups was set to Unknown.</p> <p>Because of this:</p> <ul style="list-style-type: none">• The Dynamic Group Updater built-in scheduled task could not update and rebuild the memberships of dynamic groups.• If the dynamic groups were updated so that their edsADGOriginatingService attribute was set to a specific Active Roles service, the Dynamic Group Updater scheduled task reverted the value of the attribute to Unknown. <p>This issue is fixed, so that selecting All servers for the Execute on setting of the Dynamic Group Checker scheduled task now correctly assigns the Active Roles service instance running the scheduled task, allowing the Dynamic Group Updater scheduled task to correctly rebuild the membership list of dynamic groups.</p>	449923
<p>Previously, Active Roles kept the entries of deprovisioning and undo deprovisioning operations in the change history database indefinitely, even if a Change Tracking Cleanup scheduled task was configured to delete older change tracking log entries. Keeping Deprovision and UndoDeprovision entries indefinitely caused the leftover data to grow in size over time.</p> <p>This issue was originally fixed so that the Deprovision and UndoDeprovision entries of the management history database were also deleted during cleanup. However, this change was reverted, and now the data of Deprovision and UndoDeprovision entries is kept indefinitely again.</p>	399889
<p>Previously, if you had any temporal group membership changes (such as adding or removing a temporal member from a group) scheduled to occur, upgrading to a new version of Active Roles resulted in the scheduled temporal group membership change not being performed.</p> <p>This issue is now fixed, so starting from version 8.2.1, Active Roles will perform scheduled temporal group membership changes even after upgrading to a newer Active Roles version.</p>	319037

Table 21: Configuration Center resolved issues

Resolved Issue	Issue ID
<p>Previously, the Management History import process could fail, because the maximum length of the operationid value was 10 characters. This caused an error for operation IDs that were longer than 10 characters.</p> <p>This issue was fixed by increasing the maximum length of operation IDs to 40 characters.</p>	467560
<p>Previously, the Management History import process could fail, because Active Roles added a duplicate of the completionTime attribute in the XML file, causing an XML validation error.</p> <p>This issue is now fixed and the import process is completed successfully.</p>	466571
<p>Previously, the upgrade process could fail if you performed a gradual in-place upgrade using the Upgrade configuration wizard as follows:</p> <ol style="list-style-type: none">1. You performed an in-place upgrade to a full release version with Web Interface installed, for example Active Roles 8.1.5.2. You initiated an in-place upgrade to a service pack release of the baseline release, for example Active Roles 8.1.5 SP1. <p>In such cases, the process might have failed with the following error message: Object reference not set to an instance of an object.</p> <p>This issue is now resolved and the in-place upgrade to a service pack release can be performed gradually.</p>	464334
<p>Previously, importing a configuration database from a previous Active Roles version created on a different computer resulted in the following error, when configuring the settings of the Source database step in the Import configuration wizard:</p> <p>Object reference not set to an instance of an object.</p> <p>This issue is now fixed.</p>	406609
<p>Previously, when importing an existing configuration, even if you specified an encryption key backup file in the Import of Encrypted Data step of the Import configuration wizard, the wizard displayed the following warning:</p> <p>Unable to retrieve the Active Roles data encryption key from the source database. If you have a backup of the encryption key for the source database, then, after data import is complete, you can use Restore-AREncryptionKey to restore the key from the backup to the destination database.</p> <p>This issue occurred because despite specifying the encryption key backup file, the wizard always tried to import the encryption key directly from the source database.</p> <p>This issue is now fixed, and the wizard reads the encryption key from the backup file when specified.</p>	315646

Table 22: Active Roles Collector and Report Pack resolved issues

Resolved Issue	Issue ID
Fixed a crash that previously occurred when launching the Active Roles Collector and Report Pack.	394394

Table 23: Console (MMC Interface) resolved issues

Resolved Issue	Issue ID
Previously, when trying to run an automation workflow that contained a password reset script, the workflow would fail. This was introduced by fixing another bug (432430). The issue was resolved by reverting the changes that were introduced by the 432430 bugfix.	466580
Previously, after configuring an Include by Query membership rule for a dynamic group, Active Roles replaced the query parameters of the saved membership rule with custom search parameters. This issue is now resolved, so the Include by Query configuration is now retained for newly-created dynamic groups.	468216
NOTE: For existing issues, this fix will only take effect if you re-create the affected dynamic groups.	
Previously, when using the Find Users, Contacts, and Groups view to search for a boolean attribute, the search returned no results. This issue is now fixed, so you can search boolean values successfully.	467292, 467252
Previously, when configuring a Policy Object, the list of directory objects for Azure tenant containers appeared empty. The following object types were affected: <ul style="list-style-type: none"> • Microsoft 365 Groups • Azure Users • Azure Contracts • Azure Guest Users • Shared Mailboxes • Resource Mailboxes • Security Groups • Distribution Groups • Dynamic Distribution Groups This issue is now resolved and the list is populated correctly with directory objects.	465796

Resolved Issue	Issue ID
<p>Previously, if a notification message for an automation workflow was configured and the notification message format was set as plain text, Active Roles failed to send the notification email after the workflow was run.</p> <p>This issue is now fixed, and Active Roles sends the notification email successfully.</p>	462976
<p>Previously, the Deleted Objects container did not appear if additional Active Directory features (for example, Privileged Access Management) were enabled.</p> <p>This issue is now fixed, and the Deleted Objects container appears regardless of the number of AD features enabled in your environment.</p>	455321
<p>Previously, during undo deprovisioning, if a virtual attribute could not be restored because it had been deleted and no longer existed, undo deprovisioning failed.</p> <p>The issue is now fixed: if a virtual attribute cannot be restored because it was deleted, in the undo deprovisioning report, an error message will appear for that virtual attribute. After the other virtual attributes are restored, the remaining undo deprovisioning actions will be performed.</p>	449231
<p>Previously, approving a workflow caused it to fail with the following error message:</p>	447794
<pre>Activity name: approvalActivity1 Activity type: ActiveRoles.Workflow.Activities.ApprovalActivity This activity has terminated this workflow instance. Approval rule activity has terminated this workflow instance. Administrative Policy returned an error. Specified method is not supported.</pre>	
<p>The issue was caused by the integrated Change Auditor. When an approver accepted a workflow request, the Active Roles Service attempted to set the dynamic directory control value of the Change Auditor in sub-requests (sent by the Active Roles Service) where they were not applicable, causing the workflow operation to run into an error.</p> <p>The issue is now resolved.</p>	
<p>Previously, when delegating any permission using an Access Template related to moving objects, permission precedence was not honored, which caused policy errors and did not reflect original Active Directory functionality.</p> <p>The issue is now fixed, and the following permission precedence is now honored, the first being the highest precedence:</p> <ol style="list-style-type: none"> 1. Explicit Deny 2. Explicit Allow 3. Inherited Deny 	440163

Resolved Issue	Issue ID
<p>4. Inherited Allow</p> <p>Previously, if an approval workflow was pending approval, assigning either the subject AD object or the approver group of the request to a different Organizational Unit resulted in the following error when attempting to approve the workflow:</p>	437535
<pre>Administration Service encountered an error when retrieving properties of the object. Directory object not found.</pre>	
<p>This error occurred because Active Roles always attempted to find the subject AD object or the approver group of the workflow via their DN, which changed if the object was moved to a different Organizational Unit.</p>	
<p>This issue was fixed by improving the fault tolerance of approver search operations.</p>	
<p>Previously, Active Directory users who had permissions to run Active Roles workflows could modify AD objects via workflows, even if they had no permission to any AD objects.</p>	432430
<p>This issue was fixed by adding a new check in the Access Check policy to verify the permissions of the workflow's parent initiator. Now, if the user has permission to run workflows but no permission to the objects that would be modified by running that workflow, the workflow activity will fail with an error message in the Active Roles Console and/or the Web Interface.</p>	
<p>To prevent potential memory leaks, the following built-in Script Modules in the Configuration/Script Modules/Builtin/ container were updated to use the <code>\$context.0365RemoveAllModulesSessions()</code> method:</p>	432381
<ul style="list-style-type: none"> • Create Office 365 Shared Mailboxes • Enabling Azure Roles • Sample Azure Hybrid Migration • Search Azure Users and Assign License 	
<p>Previously, when querying Azure users in a Managed Unit with the <code>edsvaOnPremisesSyncEnabled</code> attribute as the filtering condition, filtering did not work and the query did not return any results.</p>	420919
<p>The issue is now fixed.</p>	
<p>Previously, if a hybrid Azure user was added to cloud-only groups, the deprovisioning procedure did not remove the hybrid user from cloud-only distribution groups (and potentially from other subsequent cloud-only groups). However, all other deprovisioning steps (such as deactivating the Azure user) continued. The Active Roles Console and Web Interface also did not notify users about the partial deprovisioning failure.</p>	424099
<p>This issue is now fixed, and group membership removal now works correctly</p>	

Resolved Issue**Issue ID**

for all supported cloud-only Azure group types that were assigned manually to the user. The `edsvaAzureUserDeprovisionMemberOfList` attribute was also updated to include more structured information about the removed role assignments.

Previously, when configuring the membership rules of a Managed Unit, the **Include Group Members > Select objects** window incorrectly listed not just groups, but Azure users as well. Selecting an Azure user and saving your change then resulted in a `This Managed Unit has invalid membership rules` error.

402761

This issue was fixed by making sure that Azure users are no longer listed in the **Include Group Members > Select objects** window, and that you can only select groups.

Previously, when adding members to a room mailbox with the **Properties > Resource Information > Resource in-policy requests > Selected recipients** setting, deleting an added user either via Active Roles or system-provided Active Directory tools resulted in Active Roles failing to load the list of added users.

390095

This issue occurred because Active Roles Console could not load the list of assigned users due to the null value of deleted users, and was fixed by filtering out deleted users from the list.

Previously, if you linked one or more Access Templates to an Azure tenant, changing the Azure tenant type in the Active Roles Configuration Center resulted in the Access Templates losing all their directory object links to the modified Azure tenant.

386340

This issue is now fixed.

Previously, Active Roles scheduled tasks were affected by two issues:

258338

- Creating a new scheduled task during Daylight Savings Time (DST) or Standard Time could result in the scheduled task running continuously.
- Switching the Active Roles server from DST to Standard Time (or the opposite) could result in the configured scheduled tasks not running and becoming unscheduled.

These issues were caused by:

- An incorrect method of converting local time to UTC.
- An incorrect comparison of local time with UTC.
- An incorrect way to determine the Standard Time period.

These issues are now fixed, so task scheduling now works correctly, and Active Roles determines DST and Standard Time periods properly.

Table 24: Management Shell resolved issues

Resolved Issue	Issue ID
Security fixes to the Get-AllAuthenticationProviderConfiguration - ApiBaseUr1 "<RSTS_URL>" -IsDataNeededFromDb \$false cmdlet.	465851

Table 25: Synchronization Service resolved issues

Resolved Issue	Issue ID
<p>Previously, the Microsoft 365 Connector (formerly known as the Office 365 Connector) could fail with a Task was cancelled error message when importing M365 data.</p> <p>This issue could occur if HttpClient timed out during Graph API requests, for example because of network issues. In such cases, the Microsoft 365 Connector could not handle the timeout correctly.</p> <p>The issue was fixed by implementing a new retry policy which retries the request up to 3 times before timeout, minimizing the chance of the issue occurring.</p>	435112
<p>Previously, attempting to synchronize the telephoneNumber AD attribute of a hybrid Azure user to the BusinessPhones Azure AD attribute failed with the following error if the BusinessPhones attribute was empty:</p> <pre>Invalid value specified for property 'businessPhones' of resource 'User'.</pre> <p>This issue is now fixed.</p>	426228
<p>Previously, the Microsoft 365 Connector could only retrieve a single service plan instead of the complete list of service plans. For example, in case of an Enterprise license containing 30 service plans, the connector retrieved only the first service plan.</p> <p>This issue is now fixed, so the Microsoft 365 Connector retrieves all service plans of a license plan.</p>	426028
<p>Fixed a performance issue affecting sync workflows between One Identity Manager and Active Roles Synchronization Service if Active Roles was connected to any Azure tenants.</p>	424016
<p>Previously, attempting to synchronize (add) a group member from a plain-text source to the members attribute of a group with the Azure AD Connector failed with the following error:</p> <pre>Invalid property 'members'.</pre> <p>This error occurred because the Azure AD Connector was not prepared to handle modifying various group types: while certain Azure groups can be</p>	414643

Resolved Issue	Issue ID
<p>modified via Graph API, others can only be modified via the ExchangeOnlineManagement PowerShell module.</p> <p>The issue was solved by updating the Azure AD Connector to properly identify the member attribute to synchronize and the type of Azure group to update.</p>	
<p>Previously, when checking the history of any sync workflow where GUIDs were synchronized (such as Active Directory object GUIDs, Azure user IDs, or Microsoft 365 user object IDs), opening the list of processed objects then copy-pasting any GUID into the GUID filter resulted in an empty processed object list.</p> <p>This issue is now fixed.</p>	319664

Table 26: Web Interface resolved issues

Resolved Issue	Issue ID
<p>Previously, it might occur that the Active Roles Web Interface failed to load shared mailboxes.</p> <p>The issue occurred because Active Roles attempted to run the relevant cmdlet (Get-EXOMailbox -RecipientTypeDetails SharedMailbox -PropertySets Minimum) without being connected to the Exchange Online module, and was fixed by introducing a reconnect mechanism to prevent unwanted disconnection.</p>	491674
<p>Previously, opening the Azure Licenses Report page could result in an HTTP 500 error. This issue would occur when the Active Roles Web Interface needed to load an extensive amount of license information data.</p> <p>This issue was resolved by decreasing the size of license information data, allowing the Web Interface to load the page.</p>	465543
<p>Previously, in the Exchange admin center, after logging in to your tenant, when you added a mail-enabled security group as a member to a distribution group, then in the Active Roles Web Interface, you navigated to the distribution group and opened its Members, the following error message appeared:</p> <div style="background-color: #e0e0e0; padding: 5px; border: 1px solid #ccc;"> <p>Error: Object reference not set to an instance of an object.</p> </div> <p>The issue is now resolved, so in the Web Interface, opening the Members list of a distribution group that contains a mail-enabled security group as a member does not cause any errors.</p> <div style="background-color: #e0f2f7; padding: 5px; border: 1px solid #ccc;"> <p>NOTE: The Active Roles Web Interface does not support the listing of mail-enabled security groups in the Members list of distribution groups.</p> </div>	459648

Resolved Issue	Issue ID
<p>Previously, if you have specified a value of 150,000 KB (or higher) for the Shared Mailboxes > Email settings > Sent message maximum size or Received message maximum size setting, the text box of these settings showed a different value than what you have set for them.</p> <p>This issue has been fixed.</p>	456672
<p>Previously, when clicking Menu > Choose columns, moving an advanced attribute from the Hidden columns list to the Displayed columns list and saving it, the previously hidden advanced attribute still did not appear in a new column for users.</p> <p>The issue is resolved: columns added to the Displayed columns list are displayed for users, and you can also remove previously added columns individually.</p>	449966
<p>Previously, saving a new personal view saved the view URL field incorrectly with the name of the view missing from the end. This resulted in the saved view not storing various attributes, such as the search or filter container, criteria, column settings, or sort order.</p> <p>The issue has been fixed so now every attribute is saved with the correct URL value, and opening the personal view works as intended.</p>	432199
<p>Previously, when a group was assigned to the <code>managedBy</code> attribute of another group and adding a member to this first group required approval, the subgroup members of the <code>managedBy</code> group were not notified of the approval task. Consequently, the task did not appear among the approval tasks on the Self-Service Site of the Web Interface for members of subgroups.</p> <p>The issue is now resolved by expanding the approval task so that members of subgroups within the group designated in the <code>managedBy</code> attribute are now included.</p>	432073
<p>Previously, when creating a hybrid Azure user, the Create Azure Account form was not validated against the policies that administrators set, and let users proceed even if the policies failed.</p> <p>The issue is now fixed by adding the option to customize or skip validation to every form that validates policies.</p>	420648
<p>Previously, when using the Customization > Directory Objects > user - (My Account) > Create New Command menu of the Active Roles Self-Service Portal, saving and reloading your changes, then opening the new command via the User Profile Editor resulted in the page of the new command appearing in a nested Active Roles Self-Service Portal instance.</p> <p>This issue was fixed by removing all unnecessary elements from the custom command page, so that no element appears twice on the page.</p>	409603
<p>Previously, after creating a new hybrid Azure user, the Azure Properties > Settings > Usage Location field of the user was always empty, even if a</p>	393882

Resolved Issue	Issue ID
<p>usage location was specified when creating the user. Selecting a value from the Azure Properties > Settings > Usage Location drop-down and saving the change then fixed the problem.</p> <p>This issue is now fixed, so that the configured usage location appears in the Azure Properties > Settings > Usage Location drop-down immediately after creating the user.</p>	
<p>Previously, when selecting an AD LDS user, the Web Interface returned an Unable to load contents error instead of listing the available user management actions.</p> <p>This issue is now fixed, and the list of actions is populated correctly.</p>	386102
<p>Previously, when using an approval workflow to extend the expiration time of the accountExpires parameter for users, the notification email and the workflow form showed the old and new expiration times in a non-human readable LDAP format until double-clicking the values.</p> <p>This issue was fixed by implementing a converter to show the expiration times in a readable date and time format by default.</p>	324293
<p>Previously, users who had the Users - Help Desk Access Template assigned to them could not perform bulk password resets when selecting multiple users at once. Instead, they could reset passwords for single users only.</p> <p>The issue was fixed by adding the edsva-Bulk-Operation-Object-List (Write Bulk Operation Objects) permission to the Users - Help Desk Access Template.</p>	320823
<p>Previously, if a user was assigned to a group with a temporary membership, attempting to assign the same group membership again to the user via the Member of > Add command resulted in Active Roles overwriting the temporary group membership of the user. This behavior differed from the Active Roles Console, which returned an error message in this scenario.</p> <p>To ensure that the Web Interface works the same as the Active Roles Console, the Web Interface was updated to filter out already added elements, and return the following message when attempting to assign the user again to the same group:</p> <p>The object <group-name> is already in the list and cannot be added for the second time.</p>	289342

Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release. Newer Active Roles service packs cumulatively contain the

known issues of previous Active Roles service packs and the initial Active Roles 8.2.1 release.

Known issues in Active Roles 8.2.1 SP6

Active Roles 8.2.1 SP6 (build 8.2.1.149) introduces no new known issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Known issues in Active Roles 8.2.1 SP5

NOTE: The following known issues are introduced starting from Active Roles 8.2.1 SP5 (build 8.2.1.133). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 27: General known issues

Known Issue	Issue ID
<p>If you add or remove members to or from a dynamic group with Active Directory Users and Computers (ADUC), the membership changes triggered by DirSync might not enforce membership verification in Active Roles. Because of this, Active Roles Console might not show the up-to-date membership status for the dynamic group.</p> <p>Workaround</p> <p>Rebuild the dynamic group manually by clicking Rebuild in the Members tab of the affected dynamic group. Alternatively, run the Dynamic Group Updater scheduled task.</p>	701782
<p>If you include a dynamic group in a Managed Unit, and later exclude that Managed Unit from the scope of the active Built-in Policy - Dynamic Groups policy object, then Active Roles will not convert the included dynamic group to a basic group.</p>	656202
<p>If you delete multiple directory objects at once that are all included in a dynamic group with their own separate Include Explicitly membership rules, then it might happen that some of the Include Explicitly membership rules of the deleted objects are not removed, and are left in an incorrect state.</p> <p>Workaround</p> <p>If you delete any directory objects that are included in dynamic groups, delete the objects individually, one after another.</p>	649517

Known issues in Active Roles 8.2.1 SP4

NOTE: The following known issues are introduced starting from Active Roles 8.2.1 SP4 (build 8.2.1.69). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 28: General known issues

Known Issue	Issue ID
Upgrading to Active Roles 8.2.1 SP4 from an earlier release (such as Active Roles 8.1.5) might result in dynamic groups no longer being updated.	566872
Workaround Upgrade your Active Roles installation to 8.2.1 SP5 (build 8.2.1.133).	

Known issues in Active Roles 8.2.1 SP3

Active Roles 8.2.1 SP3 (build 8.2.1.33) introduces no new known issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Known issues in Active Roles 8.2.1 SP2

NOTE: The following known issues are introduced starting from Active Roles 8.2.1 SP2 (build 8.2.1.30). To check the build of your Active Roles 8.2.1 installation:

- In the Active Roles Administration Service, navigate to **i (Information) > Technical Information**.
- Alternatively, open the **Add or Remove Programs** list of the operating system, search for **One Identity Active Roles**, then click its entry.

Table 29: General known issues

Known Issue	Issue ID
If you create a large number of dynamic groups on a domain controller (DC) via scripts, it might happen that Active Roles updates only 1-2 dynamic groups instead of all of them.	536947
Workaround	

Known Issue

Issue ID

To make sure that Active Roles updates all dynamic groups in such cases, run the Dynamic Group Updater scheduled task from the Active Roles Console.

To run the Dynamic Group Updater scheduled task

1. In the Active Roles Console, in the console pane, navigate to the **Configuration > Server Configuration > Scheduled Tasks > Builtin** node.
2. In the list of scheduled tasks, right-click **Dynamic Group Updater**, then in the context menu, click **All Tasks > Execute**.

Known issues in Active Roles 8.2.1 SP1

Active Roles 8.2.1 SP3 (build 8.2.1.27) introduces no new known issues compared to previous Active Roles 8.2.1 service packs and the initial Active Roles 8.2.1 release (build 8.2.1.15).

Known issues in Active Roles 8.2.1

NOTE: The following known issues have been identified starting from the initial Active Roles 8.2.1 release (build 8.2.1.15).

Table 30: General known issues

Known Issue	Issue ID
<p>When rebuilding a dynamic group with the Members > Rebuild option, the repopulated Members list might not contain the more recent members of the dynamic group.</p> <p>Workaround</p> <p>To see the final results of the rebuild process in the Members list, close then reopen the Properties window and open the Members tab again.</p>	542179
<p>If a dynamic group is configured to include group members from basic groups with the Include Group Members membership rule, then deleting the basic groups from which the dynamic group populates its members will result in the dynamic group stuck in a mixed state. In this state, the dynamic group is not converted back to a basic group, and some of its membership rules remain in a broken state.</p> <p>Workaround</p> <p>Before deleting any basic groups that are used in dynamic group membership rules, make sure to remove the applicable membership rules from the</p>	542177

Known Issue	Issue ID
affected dynamic groups.	
Selecting a specific Active Roles server in a scheduled task's General > Current state > Execute on drop-down, then clicking Apply or OK will result in the All servers option disappearing from the drop-down list.	542382
If you run the Dynamic Group Updater scheduled task manually in the Active Roles Console, it will run only on the currently used Active Roles server, even if its General > Current state > Execute on setting is set to All servers . To run the task on all connected Active Roles servers, configure a scheduled Dynamic Group Updater run with the settings available on the task's Schedule tab.	536947
Due to RSTS connection limitations, federated authentication must be enabled for only one Active Roles instance. If you try to configure federated authentication for multiple Active Roles instances, the connection to the Active Roles database will break in the previously configured Active Roles instance.	466692
If you create a dynamic membership group in an Azure US Government tenant, attempting to check the dynamic membership rules of the group on Azure Portal can result in a No access error message appearing with error code 403.	458338
If this happens, then the configured dynamic rules will not work, and Active Roles will not allocate the users who meet the criteria of the dynamic rules.	
If you have a new Active Roles service account with the minimum required permissions, in the Active Roles Console, in Active Directory > <domain-name> - Deleted Objects , opening the Advanced Properties of a deleted object and selecting the Show all possible attributes check box results in an error message and stops the Active Roles Service.	275523
Workaround	
One Identity recommends adding your service account as a member of the Domain Admins group.	
Activating the EnableAntiForgery key (<code><add key="EnableAntiForgery" value="true"/></code> in web.config) may cause the following error message:	91977
<p>Session timeout due to inactivity. Please reload the page to continue.</p>	
Workaround	
Update the IgnoreValidation key in the <code><appSettings></code> section by adding a property value in lowercase:	
<ol style="list-style-type: none"> 1. Open IIS Manager. 2. In the left pane, under Connections, expand the tree view to Sites > 	

Known Issue	Issue ID
<p>Default Web Site.</p> <ol style="list-style-type: none"> Under Default Web Site, click on the Active Roles application (ARWebAdmin by default). Double-click Configuration Editor. From the Section drop-down, select appSettings. Find the IgnoreForValidation key. Append the comma-separated value to IgnoreForValidation, for example: lowercasecontrolname. In the right pane, under Actions, click Apply. Recycle the App pool. 	

Table 31: Add-on Manager known issues

Known Issue	Defect ID
<p>After installing an add-on that creates Web Interface customization items, the Web Interface may not display the customization items created by the add-on.</p> <p>Workaround</p> <p>In the Web Interface, click Reload.</p>	179835
<p>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.</p> <p>Workaround</p> <p>After installing the add-on, reconnect to the Administration Service.</p>	180508
<p>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.</p> <p>Workaround</p> <p>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).</p> <p>If there is a replication group in your Active Roles environment, do the following:</p> <ol style="list-style-type: none"> After the changes are propagated to all replication partners, click Reload in the Web Interface. If the Web Interface does not open, enter the following in the address bar of your browser to reload the Web Interface: 	180524

```
<site url>/customization/metadata-Reload.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 occur: 180700

```
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 /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/metadata-Reload.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).

Known Issue**Defect ID**

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 Web Interface customization items created by the add-on may not appear. 180808

This issue may occur if you provide an 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 the following error: 183252

```
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.

Workaround

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

Table 32: Configuration Center known issues**Known Issue****Issue ID**

If you are performing an in-place upgrade in an Active Roles instance where the Web Interface was previously configured and the upgrade process is interrupted (for example, due to performance or connection issues), an issue can occur where the **Upgrade configuration** wizard opens every time you start the Active Roles Configuration Center. 467196

This issue is caused by a Windows registry value that fails to reset when the in-place upgrade process is interrupted.

Workaround

To solve this problem, perform the following steps:

1. Open the Windows Registry Editor.
2. Navigate to Computer\HKEY_LOCAL_MACHINE\SOFTWARE\One Identity\Active Roles\Configuration\Web.
3. Double-click **IsInPlaceUpgrade**, then under **Value data**, enter **0** as the string value.

Known Issue	Issue ID
<p>If you want to add an Azure tenant to Active Roles and you authenticate the procedure with a user account that is a member in multiple organizations, adding the tenant can fail with the following error:</p> <p>Object reference not set to an instance of an object. Cannot index into a null array.</p> <p>This issue can occur if the user account you use for authentication resides as an external account in your organization, as Active Roles always attempts to connect and authenticate towards tenants with users that are members of your current organization.</p> <p>Workaround</p> <p>To solve this problem, perform any of the following steps:</p> <ul style="list-style-type: none"> • If your account is a member of any organizations where you do not need membership, leave those organizations via the Azure Portal. If you cannot leave those organizations yourself, contact Microsoft for assistance. • Delegate Global Admin rights to a different account, or create a new Global Admin account. Then, use that account for logging in when adding the Azure tenant in the Active Roles Configuration Center. 	457501
<p>Following an in-place upgrade, claims settings configured previously for WS-Federation authentication or SAML 2.0 authentication in the following Configuration Center pages are reset to their default UPN, EMAIL and SID claims:</p> <ul style="list-style-type: none"> • Web Interface > Authentication > Site authentication settings > WS-Federation authentication > Configure claims • Web Interface > Authentication > Site authentication settings > SAML 2.0 and their protocols used for federated authentication > Configure claims <p>Because of this, if you have previously configured any claims before upgrading Active Roles, you must reconfigure your claims settings.</p>	455729
<p>During an in-place upgrade, the connection attempt can fail with the following error message:</p> <p>The target principal name is incorrect.</p> <p>This issue is caused by a change introduced in Microsoft OLE DB Driver for SQL Server 19, a third-party prerequisite since Active Roles 8.2. Previous versions of OLE DB Driver allowed you to reference an SQL Server without specifying the full server name. However, starting from Microsoft OLE DB Driver for SQL Server 19, this is no longer possible, as the SQL Server name must match the principal name referenced by the OLE DB Driver certificate.</p> <p>Workaround</p>	427573

To solve this problem, perform any of the following steps:

- In the **Change Active Roles Database** wizard (available via the **Administration Service > Active Roles databases > Change** option), specify the full SQL Server name that matches the principal.
- Create an alias for the SQL Server name that points to the valid principal.
- Issue a new valid certificate that matches the SQL Server name.

If you change an Active Roles database to an existing or pre-created blank Azure SQL database with the **Change Active Roles Database** wizard (available via the **Administration Service > Active Roles databases > Change** option), then saving and configuring the new Active Roles database settings returns the following error message, with the configured database settings appearing as not applied:

Unable to create a backup copy of the database encryption key for this Administration Service. Details: A parameter cannot be found that matches parameter name 'MultiSubnetFailoverSupport'.

However, this is a visual issue only, as the wizard can actually change the configuration to the specified Azure SQL database.

Workaround

Check if Active Roles has actually changed the database settings to the specified Azure SQL database:

1. Close and reopen the Active Roles Configuration Center.
2. Navigate to **Administration Service > Active Roles databases**.

If you upgrade Active Roles to a newer version, starting the Active Roles Configuration Center to perform the in-place upgrade can fail with the following error messages:

- Connect failed: The system cannot find the file specified.
- Delegate to an instance method cannot have null 'this'.

At the same time, Active Roles logs the following error in the Event Viewer:

Critical error occurred upon starting Active Roles Administration Service. Details: Database <active-roles-database> on SQL Server <sql-server-name> is unavailable.

This issue occurs if the SQL Server that Active Roles uses is not already running when attempting to start the Active Roles Configuration Center after a restart to perform the upgrade process. The issue is more likely to occur if the SQL Server and Active Roles are installed on the same machine.

Workaround

Known Issue	Issue ID
<p>To avoid this issue from occurring:</p> <ul style="list-style-type: none"> • Install SQL Server and Active Roles on different machines. • Make sure that the SQL Server installation that Active Roles uses is up and running before starting the upgrade process. <p>If you have your SQL Server and Active Roles installed on the same machine, and the error occurs, close and reopen the Active Roles Configuration Center after the SQL Server started running.</p>	
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 33: Console (MMC Interface) known issues

Known Issue	Issue ID
Listing all attributes of an Azure hybrid user by selecting the Show all possible attributes check box might take too much time (approximately 30-50 seconds).	447201
<p>The format of the edsaAzureSubscribedSKUs attribute for hybrid Active Directory users has changed between Active Roles 7.6 and 8.0. As a result of this change, from Active Roles 8.1, in the Active Roles Console, you cannot modify this attribute to assign licenses to hybrid AD users.</p> <p>Workaround</p> <p>To automate assigning licenses to hybrid AD users using a workflow</p> <ol style="list-style-type: none"> 1. Create a new, example hybrid user for the purpose of copying its edsaAzureSubscribedSKUs attribute, with the license(s) that you need. 2. Copy the value of this edsaAzureSubscribedSKUs attribute. 3. To automate assigning licenses to hybrid users using a workflow, in that workflow, paste this previously copied value as the edsaAzureSubscribedSKUs attribute. <p>For more information, see <i>Workflows</i> in the <i>Active Roles Administration Guide</i>.</p>	440896
<p>If you configure a Managed Unit with an Include by Query rule, the following condition operators cannot query Azure objects due to Graph API limitations:</p> <ul style="list-style-type: none"> • Contains • Present 	420917

Known Issue	Issue ID
<p>In addition, the Ends with condition returns results only if you specify whole words. The only exceptions to this behavior are the mail, otherMails, userPrincipalName and proxyAddresses attributes, where Ends with can properly query the values that end with your specified string.</p> <p>For more information, see Support for filter by properties of Microsoft Entra ID (directory) objects in the <i>Microsoft Graph documentation</i>.</p>	
<p>Azure objects cannot be deleted.</p>	392597
<p>Workaround</p>	
<p>In the Delete Access Templates, give the user Read right on the ObjectClass property.</p>	
<p>You can run the UpdateServicesToExecute built-in script module only in a scheduled task named Update Services To ExecuteOn.</p>	317057
<p>Attempting to run the UpdateServicesToExecute built-in script in a scheduled task with a different name will result in an error.</p>	
<p>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.</p>	200328
<p>Workaround</p>	
<p>One Identity recommends scheduling the workflows with different scripts or at a different time.</p>	
<p>When a workflow is copied from a built-in workflow, it may not run as expected.</p>	153539
<p>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.</p>	98186
<p>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 do not appear in the same window.</p>	91901
<p>Workaround</p>	
<p>To view the deprovisioning results of an Azure AD user:</p>	
<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 Deprovisioning Results. • To refresh the form, press F5. 	

Table 34: Installer known issues

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

Table 35: Language Pack known issues

Known Issue	Issue ID
In the Active Roles Configuration Center, changing the language in Global settings does not work properly. Workaround To change the language of the Web Interface, configure the language with the Active Roles 8.2.1 > Settings > User interface language option of the Web Interface.	125880
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.	256939
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 36: Synchronization Service known issues

Known Issue	Issue ID
When configuring the Microsoft Exchange Server Connector , the Select the Exchange Server version to which you want to connect setting: <ul style="list-style-type: none"> Does not list Exchange Server Subscription Edition. 	543302

- Cannot connect to Exchange Server Subscription Edition if selecting the **Automatically select latest version** option.

Workaround

To connect the **Microsoft Exchange Server Connector** to an Exchange Server Subscription Edition installation, choose the **Select the Exchange Server version to which you want to connect > Exchange Server 2019** option.

In Azure BackSync, the default mapping of cloud and on-premises objects uses non-unique attribute mapping. Because of this, using the default mapping rules might result in incorrect object mapping, causing Azure BackSync to modify cloud object properties, potentially resulting in data loss (for example, by removing properties). If this occurs, restoring lost data requires manual recovery actions.

496543

Workaround

Before using Azure BackSync, One Identity strongly recommends to:

- Validate the default mapping rules and modify them as needed.
- Alternatively, perform the steps of [Knowledge Base Article 4333887](#).

Due to limitations in Graph API that prevent creating Azure contacts in Azure AD, Active Roles Synchronization Service cannot synchronize Azure contacts from any source data system to Azure AD.

412365,
412507

Depending on the source data system, attempting to synchronize Azure contacts to Azure AD can result in the following error messages:

- If the source data system is Active Roles:
An error occurred: "A parameter cannot be found that matches parameter name '<attribute>.'"
- If the source data system is not Active Roles:
Error: "Unexpected error."

In the Synchronization Service, the following attributes of the **Microsoft Azure AD Connector** are currently not supported and cannot be queried via the Microsoft Graph API:

304074

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

Known Issue**Issue ID**

- 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 <code>get-qcworkflowstatus</code> cmdlet in the Synchronization Service, the workflow status is not accurate.	125768
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Table 37: Web Interface known issues

Known Issue**Issue ID**

If you create an Exchange object that supports configuring additional properties on creation (for example, contacts or resource mailboxes), then opening the page of these properties immediately after creating the object will result in the configured values of these properties appearing incorrectly.	457642
---	--------

For example, specifying the:

- **Contact Info** or **Mail tip** properties for a contact, or
- **Calendar Processing** or **Location** properties for a resource mailbox

will result in the values of these properties appearing incorrectly in the Web Interface form, with the risk of saving them with these incorrect values if you click **Save**.

This error occurs because Active Roles creates Exchange objects (like

mailboxes or contacts) on the Exchange Server first, and will populate the Web Interface forms of the opened Exchange objects afterwards. Because of this, if you open the Web Interface forms of the objects too quickly, Active Roles might fail the update request for the forms, resulting in empty or default values appearing for the affected properties.

Workaround

To prevent this issue from occurring, always wait at least one minute before opening the Web Interface forms of the newly-created Exchange objects. If the forms still show incorrect, default or empty values when opening them, specify your desired values again, then click **Save**.

When searching for directory objects in the Active Roles Web Interface, using the **Quick Search** bar of the Web Interface header returns less results than the **Search** page when using the same search term. This is because the **Quick Search** bar can only find objects whose name starts with the specified search term. 448500

Workaround

To get accurate and complete search results, use the **Search** menu on the left-side pane instead of the **Quick Search** bar in the Web Interface header.

When managing approval requests in the Active Roles Web Interface, attempting to reject requests with the **Examine Task > Reject** button will not work. Instead, clicking the button simply returns you to the approval task details without any changes. 437370

Workaround

Reject approval requests directly in the **Pending Tasks** list of the Web Interface. To do so:

- Select the request(s) you want to reject, then click **Reject selected**.
- Use the **Reject** button right next to the approval request in the list.

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

One Identity recommends avoiding the use of the "<" character in the name property of an AD object.

Known Issue	Issue ID
<p>When searching for hybrid Azure security groups, using the Quick Search bar of the Web Interface header returns fewer results than the Search page when using the same search term. This is because the Quick Search bar can only find objects whose name starts with the specified search term.</p> <p>Workaround</p> <p>To get accurate and complete search results, use the Search menu on the left-side pane instead of the Quick Search bar in the Web Interface header.</p>	448500
<p>When attempting to modify or delete Azure users, contacts, or groups synchronized from an on-premises Active Directory to an Azure Active Directory, the operation either appears to be successful but silently fails, or the operation fails with a generic error message.</p> <p>If the operation appears to be successful, the following message appears:</p> <div style="background-color: #e0e0e0; padding: 5px; border: 1px solid #ccc;"> <p>The operation is successfully completed.</p> </div> <p>However, the operation silently fails, no error message appears, and the Azure user, contact or group is not deleted or modified.</p> <p>If the operation fails, the following generic error message appears instead of a specific error message:</p> <div style="background-color: #e0e0e0; padding: 5px; border: 1px solid #ccc;"> <p>An error occurred during the last operation.</p> </div> <div style="background-color: #e0f2f7; padding: 5px; border: 1px solid #ccc;"> <p>NOTE: Similar failures with either no error message or a generic error message might occur in the Active Roles Web Interface.</p> </div>	388062, 388063
<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 Active Roles 8.2.1 or its service packs in an on-premises environment, 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. For more information about environment virtualization, see [One Identity's Product Support Policies](#).

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 Maximum: 3.0.0.1	You must install the NuGet package provider on the computer(s) running an Active Roles Administration Service instance or Active Roles Synchronization Service. For more information, see Install-PackageProvider in the <i>Microsoft Package Management documentation</i> .
Exchange Online PowerShell V3 module	Minimum: 3.0.0 Maximum: 3.5.0	You must install the Exchange Online PowerShell module on the computer(s) running an Active Roles Administration Service instance or Active Roles Synchronization Service. For more information, see About the Exchange Online PowerShell module in the <i>Microsoft Exchange PowerShell documentation</i> .
Az.Accounts PowerShell module	Minimum: 2.10.3 Maximum: 2.12.1	You must install the Az.Accounts PowerShell module on the computer(s) running an Active Roles Administration Service instance or Active Roles Synchronization Service. For more information, see Az.Accounts in the <i>Microsoft PowerShell Gallery</i> .

Requirement	Version	Details
Az.Resources PowerShell module	Minimum: 6.4.1 Maximum: 6.6.0	You must install the Az.Resources PowerShell module on the computer(s) running an Active Roles Administration Service instance. For more information, see Az.Resources in the <i>Microsoft PowerShell Gallery</i> .
Microsoft Graph PowerShell module	Maximum: 2.17.0	You must install the Microsoft Graph PowerShell module on the computer(s) running an Active Roles Administration Service instance. For installation instructions, see Microsoft Graph in the <i>Microsoft PowerShell Gallery</i> .
Microsoft Edge WebView2 Runtime	Any version supported by Microsoft	If no web browser is installed on the machine where you want to install and use Active Roles, download the Microsoft Edge Webview 2 Runtime installer with the following PowerShell command: <pre>Invoke-WebRequest -Uri "https://go.microsoft.com/fwlink/p/?LinkId=2124703" -OutFile "\$([System.IO.Path]::Combine ([System.Environment]::GetFolderPath ('UserProfile'), 'Downloads', 'MicrosoftEdgeWebView2Setup.exe'))"</pre> After the download is finished, locate the installer in your Downloads folder and run it.
(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.0365ExecuteScriptCmd` function.

Hardware requirements

Table 38: 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>For Console, SPML Provider 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> <p>Web Interface, Synchronization Service: A minimum of 2 GB of RAM.</p> <p>Console, SPML Provider and Management Tools: A minimum of 1 GB of RAM.</p>
Hard disk space	<p>Administration Service, Web Interface, Console, SPML Provider and Management Tools: A minimum of 100 MB of free disk space.</p> <p>Synchronization Service: A minimum of 250 MB of free disk space.</p> <p>NOTE: If SQL Server and Synchronization Service are installed on the same computer, the amount required depends on the size of the Synchronization Service database.</p>
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 2025

Requirement	Details
	<ul style="list-style-type: none"> • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016 <p>NOTE: Due to security restrictions, Active Roles Synchronization Service does not support the Azure Edition variant of Windows Server operating systems.</p> <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 11, Professional or Enterprise edition. • Microsoft Windows 10, Professional or Enterprise edition, 32-bit (x86) or 64-bit (x64).

Component requirements

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 39: 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 2022, any edition. • Microsoft SQL Server 2019, any edition. • Microsoft SQL Server 2017, any edition.

Requirement Details

- Microsoft SQL Server 2016, any edition.
- Azure SQL hosted databases.

To connect Active Roles to a Microsoft SQL Server deployment, install Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).

IMPORTANT: Starting from version 8.2, Active Roles supports (and its installer is shipped with) Microsoft OLE DB Driver 19.x for SQL Server. However, Active Roles still supports earlier OLE DB Driver versions as well (18.4 or newer).

- If you upgrade to Synchronization Service 8.2.1 from an earlier version and you want to keep using an earlier version of Microsoft OLE DB Driver (version 18.4 or newer), this change has no impacts on your Synchronization Service installation.
- If you upgrade to Synchronization Service 8.2.1 from an earlier version or performed a clean installation, and you want to use Microsoft OLE DB Driver 19.x for SQL Server due to security concerns, make sure that your SQL Server has a certificate trusted by the Synchronization Service server that is assigned to the SQL service network protocols.

To use SSL with your SQL Server, configure a valid certificate. For more information on installing or viewing certificates for SQL Server via SQL Server Configuration Manager, see [Certificate management](#) in the *Microsoft SQL Server documentation*.

For general information about the encryption and certificate requirements of Microsoft OLE DB Driver 19.x, see [Encryption and certificate validation in OLE DB](#) and [Certificate requirements for SQL Server](#) in the *Microsoft SQL Server documentation*.

When configuring the SSL connection, consider the following:

- Microsoft OLE DB Driver 19.x for SQL Server requires a certificate from a Certificate Authority and no longer accepts self-signed certificates. For more information on how to access a Certificate Authority, see [Certification Authority Guidance](#) in the *Microsoft Windows Server documentation*.
- The Service Account running the SQL Server service must have permission to view the private key from the server certificate. For more information, see [Configure SQL Server Database Engine for encrypting](#)

Requirement	Details
	<p>connections in the <i>Microsoft SQL Server documentation</i>.</p> <ul style="list-style-type: none"> Microsoft OLE DB Driver 19.x for SQL Server requires specifying the Service Principal Names (SPNs). For more information, see the following <i>Microsoft SQL Server documentation</i> resources: <ul style="list-style-type: none"> Service Principal Name (SPN) Support in Client Connections Service Principal Names (SPNs) in Client Connections (OLE DB) Service Principal Names (SPNs) in Client Connections (OLE DB) in SQL Server Native Client You might need to change your SQL connection string to match the certificate and the SPN. For more information, see Using Connection String Keywords with OLE DB Driver for SQL Server in the <i>Microsoft SQL Server documentation</i>.
Windows Management Framework	Windows Management Framework 5.1 (available for download) is required on all supported operating systems.
Operating system on domain controllers	<p>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:</p> <ul style="list-style-type: none"> Microsoft Windows Server 2025 Microsoft Windows Server 2022 Microsoft Windows Server 2019 Microsoft Windows Server 2016 <p>NOTE: The supported domain functional level is Windows Server 2008 R2 or higher.</p>
Exchange Server	Active Roles is capable of managing Exchange recipients on Microsoft Exchange Server Subscription Edition.

Table 40: Web Interface requirements

Requirement	Details
Internet	Active Roles Web Interface requires the Web Server (IIS) server role

Requirement	Details
Services	<p>with the following role services:</p> <ul style="list-style-type: none"> • Web Server/Common HTTP Features/ <ul style="list-style-type: none"> • Default Document • HTTP Errors • Static Content • HTTP Redirection • Web Server/Security/ <ul style="list-style-type: none"> • Request Filtering • Basic Authentication • Windows Authentication • Web Server/Application Development/ <ul style="list-style-type: none"> • .NET Extensibility • ASP • ASP.NET • ISAPI Extensions • ISAPI Filters • Management Tools/IIS 6 Management Compatibility/ <ul style="list-style-type: none"> • IIS 6 Metabase Compatibility
Feature delegation	<p>Internet Information Services (IIS) must provide Read/Write delegation for the following features:</p> <ul style="list-style-type: none"> • Handler Mappings • Modules <p>To confirm that these features have the Read/Write delegation configured, use the Feature Delegation option of the native Internet Information Services (IIS) Manager tool of the operating system.</p>
.NET Trust Levels	<p>The .NET Trust Level must be set to Full (internal) on every computer where the Web Interface component is installed.</p> <p>To configure this setting:</p> <ol style="list-style-type: none"> 1. In the system-provided Internet Information Services (IIS) Manager tool, under Connections, expand the node of the computer, and navigate to Sites > Default Web Site. 2. On the Default Web Site Home page, double-click .NET Trust Levels. 3. Under Trust level, select Full (internal).

Requirement	Details
	<p>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.</p>
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 and 11. <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 41: Console requirements

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

Table 42: 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)	<p>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.</p> <p>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>.</p>

Table 43: Synchronization Service requirements

Requirement	Details
Operating system on	The product retains all of its features and functions when managing Active Directory on domain controllers running any of these operating

Requirement	Details
domain controllers	<p>systems, any edition, with or without any Service Packs:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2025 • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016 <p>NOTE: The supported domain functional level is Windows Server 2008 R2 or higher.</p>
SQL Server	<p>You can host the Active Roles Synchronization Service database on:</p> <ul style="list-style-type: none"> • Microsoft SQL Server 2022, any edition. • Microsoft SQL Server 2019, any edition. • Microsoft SQL Server 2017, any edition. • Microsoft SQL Server 2016, any edition. • Azure SQL hosted databases.
Windows Management Framework	<p>Windows Management Framework 5.1 (available for download) is required on all supported operating systems.</p>
Supported connections	<p>Active Roles Synchronization Service can connect to the following data systems:</p> <ul style="list-style-type: none"> • Data sources accessible via an OLE DB provider. <p>NOTE: To create a connection to an OLE DB-compliant relational database, the OLE DB Connector requires any version of Microsoft OLE DB Driver for SQL Server that is supported by Microsoft to be installed on the machine running Active Roles Synchronization Service.</p> <p>The Active Roles installer is shipped with and automatically installs Microsoft OLE DB Driver 19.x for SQL Server.</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Active Directory Domain Services (AD DS) with the domain or forest functional level of Windows Server 2016 or higher

Requirement	Details
	<ul style="list-style-type: none"> • 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 Subscription Edition • 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 <i>Installing additional components in the Active Roles Installation 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 stable Internet connection.

Table 44: 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 2025 • 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 45: Language Pack requirements

Requirement	Details
Active Roles version	<p>The Active Roles 8.2.1 Language Pack requires Active Roles version 8.2.1 of the Administration Service, Configuration Center, Console, Synchronization Service or the Web Interface installed on the target machine.</p> <p>The Active Roles 8.2.1 Language Pack will not work properly with earlier versions of Active Roles.</p>
Operating system	You can install the Active Roles Language Pack on 64-bit operating systems only.

Table 46: Add-on Manager requirements

Requirement	Details
Processor	<p>Any of the following:</p> <ul style="list-style-type: none"> • Intel 64 (EM64T) • AMD64 • CPU speed: 1.0 GHz or faster
Memory	A minimum of 1 GB of RAM.
Hard Disk Space	A minimum of 100 MB of free disk space.
Operating System	<p>Any of the following Windows Server operating systems:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2025 • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016

Requirement	Details
	In addition, you can also install Add-on Manager on a computer running: <ul style="list-style-type: none"> • Microsoft Windows 11, Professional or Enterprise edition. • Microsoft Windows 10, Professional or Enterprise edition, 64-bit (x64)
Active Roles Console	Add-on Manager requires Active Roles 8.2.1 Console installed.
Microsoft Windows PowerShell	Windows PowerShell 5.1 or later
Web Browser	Microsoft Edge 79 or newer (based on Chromium)

Table 47: Diagnostic Tools requirements

Requirement	Details
Processor	1.0 GHz or faster 32-bit (x86) or 64-bit (x64) CPU.
Memory	A minimum of 1 GB of RAM.
<p>NOTE: The amount of RAM required depends on the size of the log file opened with the Log Viewer tool.</p>	
Hard disk space	A minimum of 10 MB of free disk space.
Operating system	Any of the following Windows Server operating systems: <ul style="list-style-type: none"> • Microsoft Windows Server 2025 • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016

Table 48: Data Collector and Reporting Pack requirements

Requirement	Details
Processor	Any of the following:

Requirement	Details
	<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • 12 MB for the Data Collector and Reporting Pack. • 10 GB for the SQL Server Reporting Services.
Operating system	<p>Any of the following Windows Server operating systems:</p> <ul style="list-style-type: none"> • Microsoft Windows Server 2025 • Microsoft Windows Server 2022 • Microsoft Windows Server 2019 • Microsoft Windows Server 2016
SQL Server and SQL Server Reporting Services	<p>You can host the Active Roles Data Collector and Reporting Pack on the following SQL Server versions:</p> <ul style="list-style-type: none"> • Microsoft SQL Server 2022, any edition. • Microsoft SQL Server 2019, any edition. • Microsoft SQL Server 2017, any edition. • Microsoft SQL Server 2016, any edition. • Azure SQL hosted databases. • Azure SQL hosted databases. <p>To connect Active Roles to a Microsoft SQL Server deployment, install Microsoft OLE DB Driver for SQL Server (MSOLEDBSQL).</p>
Active Roles ADSI Provider	Active Roles 8.2.1 Management Tools must be installed.

Deployment requirements on AWS

Before deploying Active Roles 8.2.1 in Amazon Web Services (AWS) to manage AWS Managed Microsoft AD via AWS Directory Service, ensure that the following prerequisites are met.

Connectivity requirements

You must have:

- Stable network connectivity to Amazon Web Services (AWS).
- Port **1433** open and available for the Amazon Relational Database Service (RDS) service.
- Access to the AWS service with the **AWSAdministratorAccess** permission.

NOTE: Make sure that you have **AWSAdministratorAccess** permission, as it is required for certain configuration steps. The **AWSPowerUserAccess** permission is not sufficient for completing the entire configuration procedure.

Infrastructure requirements

To deploy and configure Active Roles for AWS Managed Microsoft AD, you must have access to the following AWS services and resources:

- AWS Managed Microsoft AD deployed via AWS Directory Service.
- One or more Amazon Elastic Compute Cloud (EC2) instance(s) hosting the Active Roles services and components.

The EC2 instance(s) must have, at minimum:

- 2 vCPUs running at 2.0 GHz.
- 4 GB of RAM.

TIP: One Identity recommends hosting the main Active Roles services and components (the Active Roles Service and Console, and the Active Roles Web Interface) on separate EC2 instances. If you deploy all Active Roles services and components in a single EC2 instance, use a more powerful instance to ensure a better user experience for the product.

NOTE: AWS Managed Microsoft AD support was tested with a single **t2.large** EC2 instance.

- An Amazon Relational Database Service for SQL Server (RDS for SQL Server).

NOTE: AWS Managed Microsoft AD support was tested with an RDS instance running the latest version of Microsoft SQL Server.

Make sure that all these components are discoverable or visible to each other.

Product licensing

Use of this software is governed by the Software Transaction Agreement found at <https://www.oneidentity.com/legal/sta.aspx>. 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 8.2.1 and its service packs.

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 8.2.1 and its service packs:

- 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 and its service packs
- Active Roles 8.1.1
- Active Roles 8.1.2
- Active Roles 8.1.3 and its service packs
- Active Roles 8.1.5 and its service packs
- Active Roles 8.2.1 and any of its earlier service packs to a newer 8.2.1 service pack

For more information, see the following additional resources:

- For instructions on how to upgrade from an earlier version of Active Roles, see the [Active Roles Upgrade 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 8.2.1 or its service packs, see the following information.

Microsoft OLE DB Driver for SQL Server security impacts

IMPORTANT: Starting from version 8.2, Active Roles supports (and its installer is shipped with) Microsoft OLE DB Driver 19.x for SQL Server. However, Active Roles still supports earlier OLE DB Driver versions as well (18.4 or newer).

- If you upgrade to Active Roles 8.2.1 from an earlier version via in-place upgrade, and you want to keep using an earlier version of Microsoft OLE DB Driver (version 18.4 or newer), this change has no impacts on your Active Roles installation.
- If you upgrade to Active Roles 8.2.1 from an earlier version via in-place upgrade, and you want to switch to Microsoft OLE DB Driver 19.x from an earlier OLE DB Driver version due to security concerns, you must perform additional configuration steps. Otherwise, the Active Roles Administration Service might fail to start. For more information, see *Configuring Active Roles for a newer Microsoft OLE DB Driver for SQL Server version* in the *Active Roles Upgrade Guide*.
- If you perform a clean installation of Active Roles 8.2.1 and want to use Microsoft OLE DB Driver 19.x (bundled with the Active Roles installer) due to security concerns, then verify that your SQL Server has SSL configured and the necessary trusted certificate set. Otherwise, Active Roles cannot communicate with the SQL Server and the Active Roles Administration Service might not start. For more information on these requirements, see *Configuration permissions* in the *Active Roles Installation Guide*.
- If you perform a clean installation of Active Roles 8.2.1 but you want to use an earlier supported version of Microsoft OLE DB Driver (18.4 or newer) instead of version 19.x that is bundled with the Active Roles installer, you must perform additional configuration steps in your environment. For more information, see *Rolling back to a previous Microsoft OLE DB Driver for SQL Server version* in the *Active Roles Installation Guide*.

Compatibility with earlier Active Roles components and custom solutions

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

- Components of an earlier Active Roles version might 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.

Upgrading multiple Administration Service instances if using dynamic groups

TIP:

Starting from Active Roles 8.2.1 SP4 (build 8.2.1.69), if you administer dynamic groups in several Administration Service instances, then One Identity strongly recommends upgrading only one Administration Service instance at a time, and continuing with the upgrade of the next Administration Service instance only after verifying that your domain controller(s) have optimal performance and resource usage.

IMPORTANT:

One Identity strongly recommends NOT to upgrade all your Administration Service instances at the same time, as doing so results in updating all dynamic groups simultaneously, potentially overloading your domain controller(s).

For the steps of upgrading the Administration Service, see [Upgrading the Active Roles Administration Service](#) in the *Active Roles Upgrade Guide*.

Changing Administration Service instances to manage dynamic groups with optimal performance

IMPORTANT: Active Roles 8.2.1 SP5 (build 8.2.1.133) introduced major enhancements and performance improvements to the dynamic group management functionality of the product. Due to these enhancements, the previous recommendation introduced with 8.2.1 SP4 (build 8.2.1.69) to assign all dynamic groups to the same Administration Service instance has changed.

If you upgrade from 8.2.1 SP4 to 8.2.1 SP5 in an Active Roles environment with multiple Administration Service instances, then One Identity STRONGLY recommends distributing dynamic groups evenly among the available Administration Service instances for better balancing.

For more information on configuring the service instance for dynamic groups, see [Selecting or modifying the originating Administration Service instance of a dynamic group](#) in the *Active Roles Administration Guide*.

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 8.2.1 or its service packs. Otherwise, Active Roles will not receive the required permissions for managing existing Azure tenants, and tenant administration in Active Roles 8.2.1 or its service packs will not work correctly. For more information, see [Reconfiguring Azure tenants during upgrade configuration](#) in the *Active Roles Upgrade 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 Active Roles Synchronization Service. After upgrading to Active Roles Synchronization Service 8.2.1 from an earlier version, if you previously had an Azure BackSync workflow configured, you will be prompted to reconfigure it in the 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*.

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*.

If you are upgrading from an older version of Active Roles to Active Roles 8.1.3 or later, and the Microsoft 365 or Azure AD connectors were configured manually, then to run synchronization workflows, you must update the authentication data.

To update the authentication data, you can:

- Use automatic configuration. One Identity recommends this approach, as the process is handled automatically by the Active Roles Synchronization Service.
- Use manual configuration.

For more information about the automatic and manual configuration of the Microsoft 365 or Azure AD connectors, see *Modifying a Microsoft 365 connection* and *Modifying a Microsoft Azure Active Directory connection*, respectively, in the *Active Roles Synchronization Service Administration Guide*.

Removing unsupported Az.Accounts modules to prevent Azure BackSync configuration issues

Installing the Az.Resources PowerShell module via Windows PowerShell might also result in installing the latest version of the Az.Accounts PowerShell module that is not supported by Active Roles. Therefore, to prevent potential issues, before installing Active Roles, verify that the system on which you install Active Roles only has a supported version of the Az.Accounts PowerShell module installed.

To check and delete unsupported versions of the Az.Accounts PowerShell module

1. In Windows PowerShell, run the following command:

```
Get-InstalledModule Az.Accounts -AllVersions
```

2. If the command returns any Az.Accounts modules with a version of 5.0.0 or newer, delete those modules with the following PowerShell command:

```
Uninstall-Module Az.Accounts -RequiredVersion 5.<x>.<x>
```

In this command, 5.<x>.<x> is the exact version of the Az.Accounts modules to remove, such as 5.0.0.

IMPORTANT: Not deleting Az.Accounts module instances of version 5.0.0 or newer will result in the configuration of the Azure BackSync feature of Active Roles Synchronization Service failing and Azure BackSync not working properly.

Rolling back a service pack installation

Active Roles 8.2.1 service packs are delivered as full Active Roles product installations instead of a patch or hotfix. Because of this, if you upgraded Active Roles 8.2.1 to a 8.2.1 service pack, you cannot roll back to 8.2.1 or to a previous service pack release.

Active Roles availability on Azure and AWS Marketplace

Active Roles supports deployment on the Amazon Web Services (AWS) and Azure platforms via Active Roles Marketplace images, using your organization subscription.

The marketplace images contain Active Roles running on Windows Server 2022 Datacenter Edition.

NOTE: Amazon Marketplace does not offer AWS EC2 instances preinstalled with Active Roles. You must deploy the EC2 instances first, then install and configure Active Roles manually on them.

TIP: To install additional Active Roles components later, modify your existing installation. For more information, see *Installing optional tools and components* in the *Active Roles Installation Guide*.

AWS and Azure virtual environment recommendations

If you deploy Active Roles in an AWS or Azure virtual environment via its marketplace image, One Identity recommends using the following virtual environments to host your Active Roles installation.

TIP: Before choosing the Azure virtual machine (VM) or Amazon Elastic Compute Cloud (EC2) instance to use, see the following resources:

- For more information on Azure VMs, see [Windows virtual machines](#) in the *Microsoft Azure portal*.
- For more information on AWS EC2 instances, see [EC2 instance types](#) in the *Amazon Web Services portal*.

NOTE: One Identity offers limited support for the virtual environments recommended in this section, as the actual performance on the listed environments (and the optimal environment to choose) might depend on the number of dynamic groups, Managed Units (MU), policies, scripts, workflows and other resources managed in your organization.

One Identity reserves the right to withhold support until you adapt your virtual environment for optimal performance to manage your resources with Active Roles.

Recommended AWS EC2 instance types

The Active Roles marketplace image was tested to work with the following Amazon Elastic Compute Cloud (EC2) instances:

- **m5a.2xlarge:** 8 vCPU, 32 GB RAM, up to 10 Gbps network bandwidth, up to 2880 Mbps EBS bandwidth.
- **m5a.xlarge:** 4 vCPU, 16 GB RAM, up to 10 Gbps network bandwidth, up to 2880 Mbps EBS bandwidth.
- **m5.2xlarge:** 8 vCPU, 32 GB RAM, up to 10 Gbps network bandwidth, up to 4750 Mbps EBS bandwidth.

- **m5.xlarge**: 4 vCPU, 16 GB RAM, up to 10 Gbps network bandwidth, up to 4750 Mbps EBS bandwidth.
- **m4.2xlarge**: 8 vCPU, 32 GB RAM, EBS-only storage, high network performance.
- **m4.xlarge**: 4 vCPU, 16 GB RAM, EBS-only storage, high network performance.
- **m3.2xlarge** (previous generation): 2 vCPU, 30 GB RAM, non-EBS optimized SSD, high network performance.
- **m3.xlarge** (previous generation): 4 vCPU, 15 GB RAM, non-EBS optimized SSD, high network performance.

Recommended Azure VMs

One Identity recommends using the following Azure VMs with the Active Roles marketplace image:

- **Standard D8s v3**: 8 vCPU, 32 or 64 GB RAM, 12800 max IOPS, 64 GiB local storage.
- **Standard D4s v3**: 4 vCPU, 16 GB RAM, 6400 max IOPS, 32 GiB local storage.
- **Standard D3 v2**: 4 vCPU, 14 GB RAM, 0 max IOPS, 200 GiB local storage.
- **Standard DS3 v2**: 4 vCPU, 14 GB RAM, 12800 max IOPS, 28 GiB local storage.
- **Standard D2 v4**: 2 vCPU, 8 GB RAM, 3200 max IOPS, 16 GiB local storage.
- **Standard D2s v3**: 2 vCPU, 16 GB RAM, 3200 max IOPS, 16 GiB local storage.
- **Standard D2 v2**: 2 vCPU, 7 GB RAM, 0 max IOPS, 100 GiB local storage.

Supported AWS and Azure environment types

Active Roles supports the following virtual environment types:

- **Cloud-only**: Active Roles, its components, and all required third-party components are deployed on the same cloud platform. For more information on configuring this environment type, see *Configuring the Azure or AWS virtual machine* in the *Active Roles Installation Guide*.
- **Hybrid on-premises**: Some components required by Active Roles are deployed in your on-premises environment. For more information on configuring this environment type, see *Configuring a hybrid on-premises environment for Active Roles* in the *Active Roles Installation Guide*.

NOTE: One Identity provides no support or assistance in the configuration of these environments, or troubleshooting connectivity and performance issues related to the Azure and AWS services.

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 <https://www.oneidentity.com/company/contact-us.aspx>.

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

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

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- View services to assist you with your product

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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>.

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