



# Quest Recovery Manager for Active Directory 10.4

## **Release Notes**



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# Quest® Recovery Manager for Active Directory 10.4

## Release Notes

These release notes provide information about the Quest® Recovery Manager for Active Directory 10.4 release.

- [New Features and Enhancements](#)
- [Resolved Issues](#)
- [Security Fixes](#)
- [Known Issues](#)
- [System Requirements](#)
- [Product Licensing](#)
- [Getting Started with Recovery Manager for Active Directory](#)
- [Globalization](#)
- [Third-Party Contributions](#)

## About Quest® Recovery Manager for Active Directory 10.4

Recovery Manager for Active Directory enables fast, online recovery. Comparison reports highlight what objects and attributes have been changed and deleted in Active Directory enabling efficient, focused recovery at the object or attribute level. Accurate backups and a quicker recovery enable you to reduce the time and costs associated with AD outages and reduce the impact on users throughout your organization.

Recovery Manager for Active Directory is based on patented technology.

Recovery Manager for Active Directory 10.4 is a release with new features and functionality. See [New Features and Enhancements](#).

## New Features and Enhancements

This section covers new features and enhancements in Quest® Recovery Manager for Active Directory 10.4.

# Major Features

## Standby Forest Provisioning

Standby Forests are pre-created virtual machines in Azure that are ready to use and were provisioned from the latest Active Directory backups. Each Standby Forest consists of an Azure Resource Group containing virtual machines and other resources, and represents a source AD forest at a given time. You can start virtual machines in any standby forest at any time, bringing your forest back online quickly.

## New Operation History View

A new session panel is available in the Forest Recovery Console to view history of all verification and recovery tasks that have been run for the selected forest recovery project. This is particularly useful for viewing the statuses and details of scheduled verification and recovery tasks, but it can also be useful for manual verifications and recoveries.

## SQL Server Requirement Removed

Recovery Manager for Active Directory 10.4 and above no longer uses Microsoft SQL Server® for reporting and recovery persistence. Instead, SQLite databases managed by the product are used.

## Recovery Persistence

The Recovery Persistence feature, that provides protection from an inadvertent shutdown of the Forest Recovery Console, has been updated to use a SQLite database, no longer requiring the installation of Microsoft SQL Server®. Recovery Persistence is now enabled by default.

## Fault Tolerance Deprecation

The Recovery Fault Tolerance feature, which allowed interrupted forest recovery to continue from the Forest Recovery Console installed on another machine, is being deprecated and will be removed fully in a future release.

## Improved Recovery Plan and Recovery Reports

Improved the Recovery reports by removing the usage of Microsoft SQL Server® Reporting Services (SSRS). The recovery reports are now generated as HTML files, which can be viewed in browser or results exported as an XML or HTML files.

Report templates are available and can be customized by the user.

# Improved Online Comparison and Restore Reports

Changed objects and attributes in Comparison Reports are now stored in a SQLite database. Comparison reports are now generated as HTML files, which can be viewed in browser or results exported as an XML or HTML files.

Additionally the installation of Microsoft 2015 Report Viewer is no longer part of the product installer.

# New Authentication Support for Azure Cloud Storage and AWS S3 Storage

Support available for additional authentication methods for cloud storage. Azure Cloud storage supports Azure Blob Storage with connection string, System Assigned Managed Identity, User Assigned Managed Identity and the usage of a service principal. Amazon S3 authentication methods available are IAM User, EC2 Instance IAM role and Assumed IAM role.

# Support restore of LDAPS certificates

The backup and restore of LDAPS certificates and associated Certificate Services Databases is support in Recovery Manager for Active Directory 10.4. To backup the LDAPS certificates, the **Encrypt and protect backups with passwords option** needs to be set to ensure that the LDAPS certificates are secure.

## General

Enhancement	ID (old)	Azure DevOps
<b>Recovery Manager for Active Directory 10.4</b>		
Change retention policy to delete backups from alternate backup location	N/A	358877
The Full Replication mode should replicate hybrid configuration settings (ODR integration settings)	N/A	503067
Configurable Setting in RMAD console for license warning - add Do not warn me again	N/A	544685
Add logging for script execution (ConsoleSideScripting.wsf)	N/A	556592
Review and correct documentation for minimum permissions for Online Restore	N/A	558261
Add computer dialog should allow to add DC to new/empty site	N/A	570480
Support for Exchange Server SE	N/A	582300
<b>Recovery Manager for Active Directory 10.3.2</b>		
Increase event viewer logging for console actions	N/A	234185

Enhancement	ID (old)	Azure DevOps
INTEGRITY CHECKS: Backups on remote storage must be checked by the backup agent	N/A	445485
Allow multi-select when using "Register Backup File" in RMAD and FR consoles	N/A	463748
Password Complexity Check on Backup Encryption Password	N/A	473827
Replication engine should enforce backup retention policy	N/A	500287
DNS forwarder zone information is lost when reading backup computer info	N/A	533935
Allow for blank backup access credentials when backup is located on DC	N/A	539083
<b>Recovery Manager for Active Directory 10.3.1 Hotfix 3</b>		
Use different method other than SMB for "Get information about computer from backup" during recovery	N/A	506275
Support restore from backup in no NTLM environment when backup stored on DC	N/A	506551
<b>Recovery Manager for Active Directory 10.3.1</b>		
Create new PowerShell cmdlet - Remove-RMADSession cmdlet	N/A	370687
Email notifications during integrity checks	N/A	395979
Allow to add a folder path for Forest Recovery projects to be included in backup	N/A	396047
Add support for US government GCC high accounts in exchange Oauth2 notifications	N/A	402135
Add collection Name/Id to PowerShell script parameters	N/A	410125
Allow to ignore missing/malfunctioning VSS writers	N/A	412323
Deprecate SCOM	N/A	416078
Diagnostic log BackupAgent64 - Allow for threshold on file size and overwrite	N/A	418052
Use remote storage credentials to access the backup storage when running integrity check for backups located on a domain controller	N/A	421517
Add an option to disable automatic checking of manual and scheduled backups	N/A	429365
Remove Support for 2012 and 2012 R2 from supported operating systems and SQL Server 2012	N/A	437548
Support using of LocalSystem account in scheduled backup	N/A	437699
<b>Recovery Manager for Active Directory 10.3</b>		
Salting mechanism for forest recovery project password hashes	N/A	412667
Show AD tombstone lifetime settings somewhere in a product UI	N/A	353685
Allow for password complexity	N/A	253917

Enhancement	ID (old)	Azure DevOps
BackupAgent does not respect global logging setting 'Create a new set of log files: Never' on the DC side.	N/A	381957
TLS 1.2 - Enforce in Hybrid Connect Service for communication to On Demand	N/A	384624

## Resolved Issues

### General Resolved Issues

Resolved Issues	ID (old)	Azure DevOps
<b>Recovery Manager for Active Directory 10.4</b>		
Apply temporary DNS settings step may fail with vague error message	N/A	517939
Unable to verify that the gMSA account is a member of the local Administrators group	N/A	522998
Replication of collection items may result in the account being locked out	N/A	555030
Comparison report issue: A data source instance has not been supplied for the data source 'Report Header'	N/A	559598
DC recovered with BMR method may have old A record on primary DNS server	N/A	588835
Install DNS server option of Install AD recovery method may fail in some DNS environments	N/A	606527
DNS cleanup doesn't work for some DNS configuration	N/A	606584
<b>Recovery Manager for Active Directory 10.3.2 Hotfix 1</b>		
Improved performance of search results using Online Restore wizard with mix of operating system versions	N/A	443388
RazorEngine.dll has critical vulnerability and needs to be upgraded to latest version	N/A	562026
Online Restore Wizard fails to connect to the agent because it takes some time for the firewall rules to start working	N/A	552299
Support backup and recovery of symbolic link to a folder (NetIQ)	N/A	552565
Backup replication should not validate the accessibility of backups on the source console	N/A	554238

Resolved Issues	ID (old)	Azure DevOps
<b>Recovery Manager for Active Directory 10.3.2</b>		
Performance difference between local and remote storage	N/A	370691
IFM method store temporary extracted backup on C:\ drive instead of Temp folder	N/A	488677
Log rotation interval not working as expected with logs found in root log folder	N/A	515418
Intermittent backup failures with error: Failed to connect to backup agent: Access is denied	N/A	532286
The DIT Database component cannot be backed up because the NTDS VSS writer is unavailable or does not work properly	N/A	539934
<b>Recovery Manager for Active Directory 10.3.1 Hotfix 3</b>		
Change "Full" to "AD" in "Retain recent backups"	N/A	513320
Domain recovery deletes DNS conditional forwarder to root domain	N/A	519110
RMAD Console "The server threw an exception" when accessing computer collection settings Advanced Run Scripts after moving database to a new host	N/A	523958
<b>Recovery Manager for Active Directory 10.3.1 Hotfix 2</b>		
DNS should cleanup all non-relevant NS records	N/A	487775
Handle null values which can be returned from Change Auditor database query	N/A	498663
Static Analysis Security Issue: Out-of-bounds read/access for ud3convert	N/A	498947
Hybrid Restore Service: Time zone settings set to UTC - (negative offset) causes ODR restore objects fail with "No results received from the agent".	N/A	504110
Hybrid Restore Service: Issue with database upgrade when upgrading RMAD product	N/A	505343
<b>Recovery Manager for Active Directory 10.3.1 Hotfix 1</b>		
Hybrid Restore Service: Timezone and region settings set to UTC+ causes ODR Diff restore objects to hang on "Synchronizing object changes with Azure AD"	N/A	444355
Expand-RMADBackup crashes when it's executed simultaneously for multiple backups	N/A	465177
Poor performance of backup replication in Full Mode	N/A	472789
Invalid Version String in the rmad.db3 crashes the Console	N/A	478037
Correct User Guide about permissions required for online restore	N/A	480678
Disable IPv6 loopback for AD integrated DNS server	N/A	487979
Child domain forest-wide DNS zone gets wrong IP address	N/A	487991
<b>Recovery Manager for Active Directory 10.3.1</b>		

Resolved Issues	ID (old)	Azure DevOps
FSMO roles doesn't removed from non-recovered DC	N/A	408607
OnlineRestoreAgent.msi uninstalls Backup agent on DC if Backup agent exists. Backup agent also uninstalls ORA on DC if exists before install Backup Agent.	N/A	421201
Perform integrity check after scheduled backup' option works incorrectly	N/A	430626
GPO Comparison Report error: "Uncaught Reference Error: Enumerator is not defined"	N/A	431908
Using Online Restore Wizard, any GPO Comparison Reports do not show the changes/differences because the information is hidden	N/A	434960
Do not store user account credential in the task for scheduled console config backup	N/A	437559
Too long replication in full mode	N/A	438621
Restore-RMADDeletedObject cmdlet throws "Invalid Password Cannot decrypt data" when backup is not accessible - improve error message	N/A	440174
DC side PowerShell script account requires SeInteractiveLogonRight, or the logon will fail.	N/A	444542
Get information about computer from Backup takes too long to fail if backup access credentials are incorrect	N/A	448638
When forest domain is forest-wide replicated all DCs in forest should use its DC as primary DNS server	N/A	468637
Email notifications: SMTP authentication long password truncated after saving and reopening Recovery Manager Settings dialog	N/A	470665

## Security Information

Recovery Manager for Active Directory fully supports Transport Layer Security (TLS) 1.2. It is recommended that you upgrade to TLS 1.2 for secure communications.

Security Resolved Issue	ID (old)	Azure DevOps
<b>Recovery Manager for Active Directory 10.3.2 Hotfix 1</b>		
RazorEngine.dll has critical vulnerability and needs to be upgraded to latest version - <a href="#">CWE-2021-46703</a>	N/A	562026
<b>Recovery Manager for Active Directory 10.3.1 Hotfix 3</b>		

Security Resolved Issue	ID (old)	Azure DevOps
Insecure SSL/TLS: bad certificate verifier - <a href="#">CWE-295</a> , <a href="#">CWE-296</a> , <a href="#">CWE-300</a>	N/A	498948
<b>Recovery Manager for Active Directory 10.3</b>		
Salting mechanism for forest recovery project and ADVL project password hashes	N/A	412667
Enforce password complexity on Forest Recovery project	N/A	253917
TLS 1.2 - Enforce in Hybrid Connect Service for communication to On Demand	N/A	384624

## Known Issues

### Upgrade Known Issues

Known Issue	ID (old)	Azure DevOps
When upgrading to RMAD 10.3.2, if an older version of SQL Server Express is already installed and the database exists, the version of SQL Server Express will not be upgraded by the installer. The existing database will be upgraded.	N/A	546861

### General Known Issues

Known Issue	ID (old)	Azure DevOps
Backups may contain invalid FQDNs that are registered automatically, so they cannot be selected in the Forest Recovery Console. <b>Workaround:</b> Use the Active Directory browse method to add the DCs to a collection when creating backups, or perform backup creation for the DCs (with correct FQDN) directly. To use the Active Directory® browse method, click <b>All Domain Controllers</b> in the console tree, right-click a domain controller on the right pane and press <b>Add to Collection</b> .	RMADFE-2851	220570
Recovery Manager for Active Directory does not show changes to GPO administrative templates in the GPO comparison report.	RMADFE-805	220632
Group Policy restore might fail with the error "Network access is denied" if you run the RMAD console under a local account, and this account has the same username and password as the domain account you use to restore Group Policy in the domain.	RMADFE-2162	226664

# System Requirements

Before installing Recovery Manager for Active Directory, ensure that your system meets the following minimum hardware and software requirements.

**NOTE** | Recovery Manager for Active Directory supports only IPv4 or mixed IPv4/IPv6 networks.

## Recovery Manager for Active Directory requirements

### Processor

**Minimum:** 2.0 GHz

**Recommended:** 2.0 GHz or faster

### CPU Cores

**Minimum:** 2 CPU cores

**Recommended:** 4 CPU cores

### Memory

**Minimum:** 4 GB

**Recommended:** 8 GB

These figures apply only if the Active Directory domains managed by Recovery Manager for Active Directory include 1 million objects or less. Increase RAM size by 512MB for every additional 1 million objects.

### Hard disk space

Full installation including the prerequisite software: 2.7 GB of free disk space

In case all the prerequisite software is already installed: 260 MB of free disk space

**NOTE** | Additional storage space is required for a backup repository, at least the size of the backed-up Active Directory® database file (**Ntds.dit**) and the **SYVOL** folder plus 40 MB for the transaction log files.

### Operating system

**NOTE** | Machine that hosts the Recovery Manager for Active Directory console must have same or higher version of Windows operating system than the processed domain controllers. Otherwise, the online compare and object search in a backup during the online restore operation may fail. 32-bit operating systems are not supported.

### Installation

- Microsoft Windows Server® 2025, 2022, 2019, and 2016

Targets for backup, restore, or compare operations

- Microsoft Windows Server® 2025, 2022, 2019, and 2016 (including Server Core installation)

## Microsoft .NET Framework

Microsoft .NET Framework version 4.8 or higher is needed on the console system.

**NOTE** Microsoft .NET 4.8 is not required to be installed on the systems where the Forest Recovery and Backup agents are to be installed. The Secure Storage Agent does use .NET and it is recommended to install 4.8 on the Secure Storage system, but the agent will work with older versions.

## Microsoft Windows PowerShell

Microsoft Windows PowerShell® version 5.0 or later

## Integration with Change Auditor for Active Directory

Supported versions of Change Auditor for Active Directory: from 6.x to 7.x.

If any prerequisite software is not installed, the Setup program automatically installs it for you before installing Recovery Manager for Active Directory. If the prerequisite software to be installed is not included in this release package, it is automatically downloaded.

Continuous recovery: From version 10.0.1, Recovery Manager for Active Directory together with Change Auditor can restore the deleted object(s) and continuously restores the last change (if any) that was made to the object attributes after creating the backup, using the data from the Change Auditor database.

## Forest Recovery Agent requirements

### Memory

1 GB (2 GB recommended)

### Hard disk space

2 GB or more

### Operating system

One of the following operating systems:

- Microsoft Windows Server® 2025, 2022, 2019, and 2016 (including Server Core installation)

# Secure Storage Server requirements

## Processor

**Minimum:** 2.0 GHz

**Recommended:** 2.0 GHz or faster

## CPU Cores

**Minimum:** 2 CPU Cores

**Recommended:** 4 CPU Cores

## Memory

**Minimum:** 4 GB

**Recommended:** 8 GB

- Operating system: Microsoft Windows® 2016 or higher (including Server Core installation).
- A stand-alone server to be used as your Secure Storage server. This server should be a workgroup server and not joined to an Active Directory domain.
- An account that will be used to deploy the Storage Agent on the Secure Storage server. This account must also be a local Administrator on the Secure Storage server.
- Physical access to the Secure Storage server. Once the server is hardened access with regular methods will be disabled.
- Sufficient storage space on the Secure Storage server for all backup files. For one backup file, the space required is at least the size of the backed-up Active Directory® database file (Ntds.dit) and the SYSVOL folder plus 40 MB for the transaction log files.

## Password and SIDHistory Recoverability Tool

You can only use the Password and SIDHistory Recoverability Tool if Microsoft's Active Directory Recycle Bin is not enabled in your environment.

# Product Licensing

The Recovery Manager for Active Directory(RMAD) license specifies the licensed number of user accounts in the Active Directory domains protected with the product. If the actual number of user accounts exceeds the licensed number, RMAD does not stop functioning but displays a warning message each time you back up data. In this case, you need to purchase and install a new license key file allowing you to back up a greater number of user accounts or revoke licenses from the domains whose backups you no longer need.

To view information about and manage the installed license key file, you can use the License tab in the **About** dialog box: in the Recovery Manager Console, right-click the Recovery Manager console tree root, and then click **About**.

# Installing license key file

You need to supply a valid license key file when installing Recovery Manager for Active Directory.

## *To install a license key file*

1. In the Setup Wizard, on the **User Information** page, click **Browse license** to display the **Select License File** dialog box.
2. Locate the Quest license file (\*.dlv) and click **Open**.

# Updating license key file

If you have purchased a new license key file, use the Recovery Manager Console to update the license key file.

## *To update the license key file*

1. In the Recovery Manager Console, right-click the **Recovery Manager for Active Directory** console tree root, and then click **About**.
2. In the **About** dialog box, click the **License** tab, and then click **Install License File**.
3. In the **Update License** dialog box, enter the path and name of the license key file, and then click **OK**.

# Revoking licenses

When the actual number of user accounts exceeds the licensed number, Recovery Manager for Active Directory returns a warning message each time you back up data. In this case, you can revoke licenses from the domains whose backups you no longer need. The revoked licenses are returned to the pool of available licenses and you can allocate them to a different domain.

**CAUTION** When you revoke licenses from a domain, all backups created by Recovery Manager for Active Directory for that domain get deleted. You should only revoke licenses from a domain if you no longer need backups created for that domain.

## *To revoke licenses from a domain*

1. In the console tree, right-click the root node, and then click **About**.
2. In the About dialog box, click the **License** tab.
3. On the **License** tab, select the domain from the **License Usage** list, and then click **Revoke**.
4. In the confirmation message box, click **Yes**.

# Getting Started

## Upgrade and installation instructions

**NOTE** | **For Recovery Manager for Active Directory 10.1 or higher:** Make sure that you use the Backup Agent version supplied with this release of Recovery Manager for Active Directory.

Recovery Manager for Active Directory (RMAD) supports a direct upgrade from version 10.1 and higher. If you have an earlier version of RMAD, the best practice is to upgrade the product to any of the supported versions, and then upgrade it to the latest version.

Alternatively, you can install the latest version of RMAD on a new clean machine and perform a full replication. The Full replication feature allows you to create a full copy of the primary Recovery Manager console settings on the new console instance. This option is supported starting from Recovery Manager for Active Directory version 9.0.1. For details, see the *Full Replication* section in User Guide.

For Recovery Manager for Active Directory Disaster Recovery Edition, after upgrade of Recovery Manager for Active Directory, upgrade the Secure Storage agent on the Secure Storage server to the same version. With a hardened Secure Storage server, Recovery Manager for Active Directory does not automatically upgrade the agent and this must be completed with console (physical) access to the server.

**NOTE** | You can review a complete list of sub-processors and our privacy policy at <https://support.quest.com/subprocessor>.

## Additional resources

Additional information is available from the following:

- Online product documentation [Support Portal](#)
- Recovery Manager Community <https://www.quest.com/community/products/recovery-manager/ff/forum>

## Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

# Third-Party Contributions

This product contains the third-party components listed below. For third-party license information, go to <https://www.quest.com/legal/third-party-licenses.aspx>. Source code for components marked with an asterisk (\*) is available at <http://opensource.quest.com>.

## List of third-party contributions

Component	License or acknowledgment
AeroWizard 2.2.3	MIT 1.0 Copyright (c) 2013 David Hall
AWSSDK.Core 4.0.0.11	Apache 2.0
AWSSDK.S3 4.0.1.7	Apache 2.0
Awssdk.securitytoken 4.0.0.9	Apache 2.0
Azure.Core 1.41.0	MIT Template 2020
Azure.Core.Amqp 1.3.1	MIT Template 2020
Azure.Identity 1.12.1	MIT Template 2020
Azure.Messaging.ServiceBus 7.18.1	MIT Template 2020
Azure.ResourceManager 1.12.0	MIT Template 2020
Azure.ResourceManager.Authorization 1.1.3	MIT Template 2020
Azure.ResourceManager.Compute 1.5.0	MIT Template 2020
Azure.ResourceManager.Network 1.8.0	MIT Template 2020
Azure.ResourceManager.Storage 1.3.0	MIT Template 2020
Azure.Storage.Blobs 12.21.0	MIT Template 2020
Azure.Storage.Common 12.20.0	MIT Template 2020
EntityFramework 6.4.4	Apache 2.0
Fody 4.2.1	MIT N/A
FontAwesome.WPF 4.7.0.9	MIT N/A
Group Controls 1.8	Apache 2.0
Microsoft .Net Framework 4.8	Microsoft .Net Framework 4.8
Microsoft.AspNet.Razor 3.3.0	Microsoft .NET Library 1.0
Microsoft.Azure.Amqp 2.6.9	MIT Template 2020
Microsoft.Bcl.AsyncInterfaces 9.0.2	MIT Template 2020
Microsoft.Dism 2.0.20	MIT N/A

Component	License or acknowledgment
Microsoft.Extensions.DependencyInjection.Abstractions 9.0.2	MIT Template 2020
Microsoft.Extensions.Logging.Abstractions 9.0.2	MIT Template 2020
Microsoft.Graph 4.54.0	MIT N/A
Microsoft.Graph.Core 2.0.15	MIT Template 2020
Microsoft.identity.client 4.65.0	MIT Template 2020
Microsoft.identitymodel.abstractions 6.35.0	MIT Template 2020
Microsoft.PowerShell.3.ReferenceAssemblies 1.0.0	MIT N/A
Microsoft.PowerShell.5.ReferenceAssemblies 1.1.0	MIT N/A
Microsoft.Xaml.Behaviors.Wpf 1.1.19	MIT N/A
MinHook 1.3.3	BSD - MinHook 1.0 Copyright 2009 Tsuda Kageyu All rights reserved.
Newtonsoft.Json 13.0.3	MIT Template 2020
PDFsharp-MigraDoc-wpf 6.2.2	MIT Template 2020
PropertyChanged.Fody 2.6.1	MIT N/A
SharpZipLib 1.4.2.13	MIT Template 2020
SQLiteCodeFirst 1.7.0.34	Apache 2.0
SSH.Net 2024.0.0 2024.0.0	MIT N/A
System Buffers 4.6.0	MIT N/A
System.ClientModel 1.3.0	MIT Template 2020
System.Data.SQLite 1.0.116.0	System.Data.SQLite N/A
System.data.sqlite.core 1.0.116.0	Microsoft Public License (Ms-PL) 1.0 - October 12, 2006
System.Data.SQLite.EF6 1.0.116.0	System.Data.SQLite N/A
System.Data.SQLite.Linq 1.0.116.0	System.Data.SQLite N/A
System.Diagnostics.DiagnosticSource 9.0.2	MIT Template 2020
System.IO.Hashing 6.0.0	MIT Template 2020
System.IO.Pipelines 9.0.2	MIT Template 2020
System.Management.Automation 6.2.3	MIT Template 2020
System.Memory 4.5.5	MIT 1.0

<b>Component</b>	<b>License or acknowledgment</b>
System.Memory.Data 9.0.2	MIT 1.0
System.Numerics.Vectors 4.6.0	MIT 1.0
System.Runtime.CompilerServices.Unsafe 6.1.0	MIT Template 2020
System.Text.Encodings.Web 9.0.2	MIT Template 2020
System.Text.Json 9.0.2	MIT Template 2020
System.Threading.Channels 9.0.2	MIT Template 2020
System.Threading.Tasks.Extensions 4.6.0	MIT 1.0
System.ValueTuple 4.5.0	MIT 1.0
TaskScheduler 2.8.18	MIT
Task Scheduler Managed Wrapper 2.8.18	MIT N/A
TimeSpan2 2.2.0	New BSD N/A
Windows Installer XML Toolset (aka WiX) 6.0.0	Microsoft Reciprocal License (MS-RL) N/A

Quest Software creates technology and solutions that build the foundation for enterprise AI. Focused on data management and governance, cybersecurity and platform modernization, Quest helps organizations address their most pressing challenges and make the promise of AI a reality. Around the globe, more than 45,000 companies including over 90% of the Fortune 500 count on Quest Software. For more information, visit [www.quest.com](http://www.quest.com) or follow Quest Software on X (formerly Twitter) and LinkedIn.

## Technical support resources

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

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

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