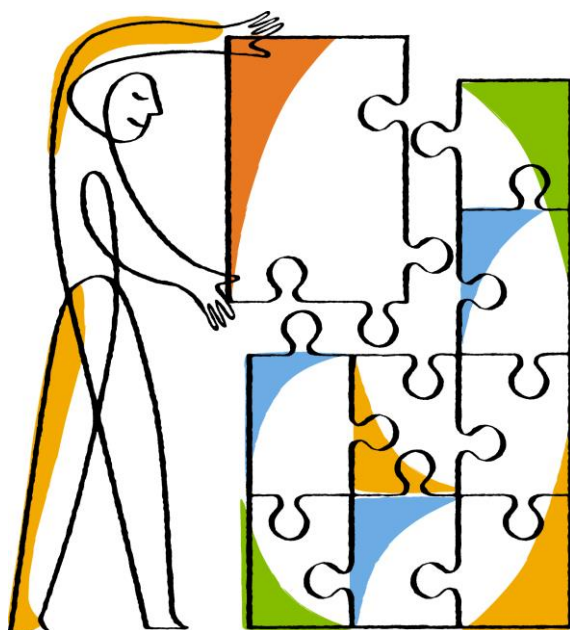




Single Mailbox Recovery 7.2.1

ExtractWizard Release Notes



NetApp® Single Mailbox Recovery 7.2.1 ExtractWizard

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Product Overview

Single Mailbox Recovery works with your existing Microsoft Exchange Server backup architecture and procedures, and allows you to recover individual mailboxes, folders, messages, attachments, and even calendars, notes, and tasks directly to your production Microsoft Exchange Server or any Outlook PST file. This eliminates time-consuming and expensive single mailbox (brick-level) backups. This powerful software also lets you search and create a copy of all archived email that matches a given keyword or criteria.

Because Single Mailbox Recovery can work in conjunction with your existing NetApp SnapManager for Microsoft® Exchange environment, you can continue to use SnapManager to perform full, online backups of Exchange databases using NetApp Snapshot technology. This technology enables you to retain many Exchange backups on a NetApp storage system with minimal storage requirements for each incremental backup. Later, whenever you need to restore previously deleted, individual Microsoft Exchange Server mail items, use Single Mailbox Recovery to rapidly locate and then restore the items—at any level of granularity—directly to an existing mailbox on your production Microsoft Exchange Server or to a new or existing offline Outlook PST file.

- To restore mail items from an Exchange database (EDB) file in a SnapManager backup set Snapshot copy, connect to the LUN in the Snapshot copy on the storage system and then use Single Mailbox Recovery to restore the mail items directly from the SnapManager-created Snapshot copy.
- To restore mail items from an EDB file in a tape or disk backup created using an Exchange-aware backup application, first use the appropriate application-specific Single Mailbox Recovery ExtractWizard agent to read the Exchange Server backup directly from the backup media and restore the Exchange database to any alternate location where you can perform Single Mailbox Recovery processes. You can then use Single Mailbox Recovery to restore the mail items from the database. The use of a Single Mailbox Recovery ExtractWizard agent also enables you to use Single Mailbox Recovery to restore Exchange mail items from an archived copy of a SnapManager-based full backup set created by a supported, Exchange-aware backup application run in copy mode.
- To restore mail items from an Outlook PST file located on any alternate location where you can perform Single Mailbox Recovery processes, use the Single Mailbox Recovery PST agent.

Single Mailbox Recovery locates and restores Microsoft Exchange Server mail items without the assistance of the Microsoft Exchange Server, thereby eliminating the need for a recovery server. In contrast, most backup programs let you restore Microsoft Exchange Server data only to the same or duplicate server from which it was backed up.

Single Mailbox Recovery ExtractWizard Licensing

All Single Mailbox Recovery ExtractWizard editions require a license file. Single Mailbox Recovery ExtractWizard software is licensed based on the enabled agents.

To view the currently applied license

- On the **Help** menu, click **About** and then click **License Info**.

To obtain a new or updated license

1. Log on to <http://support.netapp.com/>.
2. On the Support page, click **Downloads > Software**.
3. In the Software Download section, go to **Single Mailbox Recovery**, select **Microsoft Exchange** from the list and click **Go!**.
4. Select the particular Single Mailbox Recovery release and click **View and Download**.
5. On the Description page, click **Continue**.
6. On the End User License Agreement page, click **Accept**.
7. On the Download page under the Licensing additional agents section, download the required licenses.

To apply a new or updated license

- Do one of the following:
 - On the **Help** menu, click **About** and then click **License Info**. On the License File dialog box, enter the **License File Name** or click **Browse** and navigate to the license you want to apply.
 - Replace the existing .ini file with the new .ini file. The default location for this file is in the Single Mailbox Recovery directory.

Validating Licensing Between Single Mailbox Recovery ExtractWizard and the NetApp Storage System

In order to validate the licensing with Single Mailbox Recovery ExtractWizard or later, HTTP communication using the IP address or FQDN of the NetApp storage system is required. The NetApp storage system must have Management Communications enabled using HTTP using default ports. If administration access is not enabled on the NetApp storage system, Single Mailbox Recovery ExtractWizard cannot validate your license and prompts you to enter a valid storage system.

Note: *HTTPS communication between Single Mailbox Recovery and the NetApp storage system can be optionally and additionally enabled.*

To validate licensing between Single Mailbox Recovery and the NetApp storage system

1. Using Single Mailbox Recovery, do the following:
 - On the **Help menu**, click **About** and then click **License Info**. On the License Information dialog box, enter the IP address or the fully qualified domain name (FQDN) of the NetApp storage system you want to apply in the **Storage appliance name or IP address** or click **Browse** and navigate to the storage system.
2. Using the NetApp storage system, do the following:

- *Required:* Activate `httpd.admin.enable`. With this option enabled, communication from Single Mailbox Recovery ExtractWizard to the NetApp storage system occurs over HTTP (port 80).
- *If communication over HTTPS is also required:* Activate `httpd.admin.ssl.enable`. With this option enabled, communication from Single Mailbox Recovery ExtractWizard to the NetApp storage system occurs over secure protocol HTTPS (port 443).

Single Mailbox Recovery ExtractWizard Agents

Typically, Single Mailbox Recovery is used to restore individual mail items from Microsoft Exchange Server database files that you backed up to a storage system using SnapManager for Microsoft Exchange. However, for integration with your legacy tape backup environment, Single Mailbox Recovery also enables you to restore mail items from Exchange Information Store data that you backed up to disks or tapes using a Microsoft Exchange Server-aware, tape-based backup application other than SnapManager. Application-specific Single Mailbox Recovery ExtractWizard agents enable you to read Exchange Information Store data from the media and copy the data to any location where you can perform Single Mailbox Recovery processes. Single Mailbox Recovery ExtractWizard agents are provided for the most widely used disk and tape backup software, as summarized in the following table.

Each edition of Single Mailbox Recovery ExtractWizard is distributed with the following Single Mailbox Recovery ExtractWizard Agents.

Single Mailbox Recovery ExtractWizard Agent	Versions Supported	Disk Backup	Tape Backup
<i>Agents available by default.</i>			
Agent for Windows NT Backup	All Versions	.BKF Files	Microsoft Tape Format (MTF)
Agent for Symantec Backup Exec*	▪ 8.x ▪ 9.x ▪ 10.1 ▪ 11d ▪ 12.0 ▪ 12.5 ▪ 12.5.3 SP4 ▪ 2010 through 2010 R3SP1 (Direct Method only): 2012	.BKF Files	Microsoft Tape Format (MTF)
<i>Optional agents (priced separately)</i>			
Agent for EMC NetWorker	6.x through 8.1 SP1 ¹	.0 Files	NetWorker Tape Format
Agent for CA ARCserve Backup	▪ 9.x ▪ 11.5² ▪ 11.5 SP3^{2,3} ▪ 12.0 SP1^{2,4} ▪ 12.5 SP1^{2,4} ▪ 15²	.CTF (ARCserve) Files	ARCserve Tape Format

Single Mailbox Recovery ExtractWizard Agent	Versions Supported	Disk Backup	Tape Backup
	15 SP1² 16² 16 SP1²		
Agent for Symantec NetBackup	4.5 5.x 6.0 6.5⁵ 6.5.3.1⁵ 6.5.6⁵ 7.0⁵ 7.1 through 7.1.0.4^{5,6} 7.5^{5,6} (Advanced Method only): 7.6^{5,6}	_C1_F (NetBackup) Files	NetBackup Tape Format
Agent for IBM Tivoli Storage Manager	5.1 5.2 5.3⁷ 5.4⁷ 5.5⁷ 6.2⁷ 6.2.3⁷ 6.3⁷	.BFS and .OST Files	Tivoli Tape Format
Agent for HP Data Protector	4.2 5.x 6.0 6.20	User-Defined File Extension	HP Data Protector Tape Format
Agent for CommVault Simpana	5.0 5.9 6.1 7.0 8.0 9.0 through 9.0 SP7	Backup Path	CommVault Simpana Tape Format
Agent for UltraBac	7.1 8.0	Magnetic Library	UltraBac Software Tape Format

*Symantec Backup Exec:

- *If you are using Single Mailbox Recovery ExtractWizard to restore a Symantec Backup Exec 2010 Snapshot copy backup, Windows Server 2008 or later versions must be used.*
- *64-bit (x64) editions of Windows are not supported for running Single Mailbox Recovery ExtractWizard for Advanced Method restores of non-Snapshot copy Symantec Backup Exec 2010 backups.*

¹ **EMC NetWorker:** For backups created using Advanced File Backups, the Advanced Method or NetWorker flat file recovery is recommended. For NMM 3.0 or higher, the Direct Method or NetWorker flat file recovery is recommended. NME 5.1.3 Advanced File restores can be performed on 32-bit and 64-bit clients using NetWorker 7.6.

² **CA ARCserve 11.5, 11.5 SP3, 12 SP1, 12.5 SP1, 15, 15 SP1, 16, and 16 SP1:** For multiplexed backup tapes, the Advanced Method for extraction is recommended.

³ **CA ARCserve 11.5 SP3:** For backups of Microsoft Exchange Server 2007, the Direct Method for extraction must be used.

⁴ **CA ARCserve 12.0 SP1 and 12.5 SP1:** For backups of Microsoft Exchange Server, the Direct Method for extraction must be used.

⁵ **Symantec NetBackup 6.x and 7.x:** For backups created using Bare Metal Restore™ or Off-Host Backup, the Advanced Method for extraction must be used.

- Symantec NetBackup 6.5.4 to 7.5 must be run on a 32-bit (x86) edition of Windows. NetBackup 6.5.4 to 7.0 running on a 64-bit (x64) operating system are not supported for Advanced Method.

⁶ **Symantec NetBackup 7.1, 7.1.x, and 7.5 and 7.6:** For Advanced Method restores of VSS backups, restoring a single database at a time is recommended.

- Symantec NetBackup 7.1 running on Microsoft Windows Vista x64 or later is supported for Advanced Method for Exchange 2007. Microsoft Windows Server 2008 x64 or 2008 R2 is required for Advanced Method for Exchange 2010. For Exchange 2000 and 2003, a 32-bit (x86) operating system must be used.

⁷ **IBM Tivoli Storage Manager 5.3, 5.4, 5.5, 6.2, 6.2.3, and 6.3:** For backups created using Export mini format, the Advanced Method for extraction is recommended.

- *Tivoli VSS restores require Single Mailbox Recovery ExtractWizard running on Windows Vista or later.*
- *Single Mailbox Recovery ExtractWizard supports Microsoft Exchange Server 2007 and 2010 VSS backups from IBM Tivoli Server Manager 6.2 or 6.3 with IBM TSM Data Protection for Mail 6.1.2 or 6.1.3.*
- *If installing Tivoli 6.3 or later on a 64-bit machine, you will need to manually download and install the Microsoft Visual C++ 2010 Redistributable Package (x86) (<http://www.microsoft.com/download/en/details.aspx?id=5555>).*

How Single Mailbox Recovery ExtractWizard Can Be Used with SnapManager

Even if you are using SnapManager for Exchange as your primary Exchange backup application, Single Mailbox Recovery ExtractWizard is useful in the following situations:

- To enable recovery of mailbox items from a legacy backup. If you have Exchange Information Store data stored in legacy backups created using a supported backup application, you can use the associated Single Mailbox Recovery ExtractWizard agent to restore the Microsoft Exchange Server data to any location where you can perform Single Mailbox Recovery ExtractWizard processes.
- To enable recovery of mailbox items from a SnapManager archive. If you used a Microsoft Exchange aware backup application to archive a SnapManager for Exchange full backup set in read only mode, use the associated Single Mailbox Recovery ExtractWizard agent to restore the Exchange Information Store data from the archive to any location where you can perform Single Mailbox Recovery ExtractWizard processes.

After the Microsoft Exchange Server data has been restored, you can use Single Mailbox Recovery ExtractWizard to restore individual mailbox items to your production Exchange server or to a PST file.

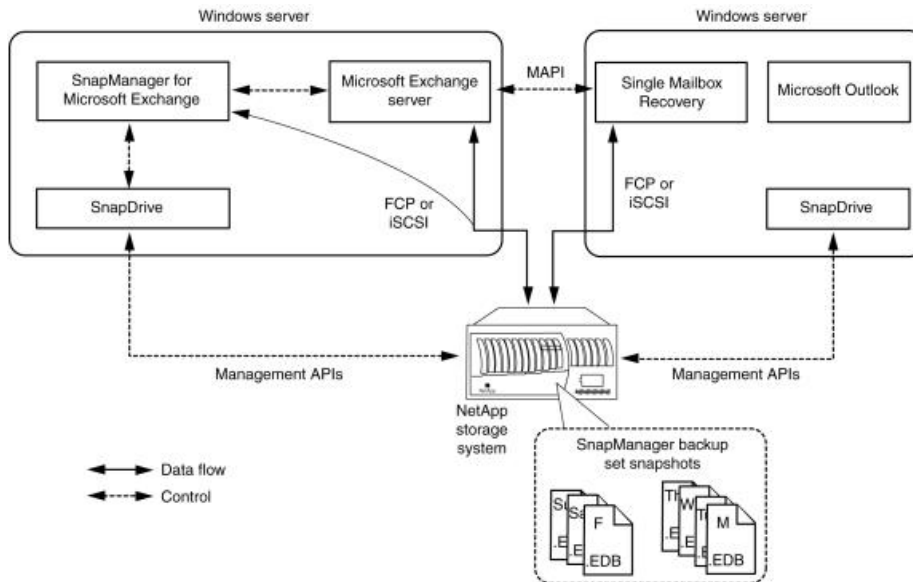
Installing or Upgrading Single Mailbox Recovery ExtractWizard

To install or upgrade to Single Mailbox Recovery ExtractWizard 7.2.1, step through each of the following tasks:

- Task I: Prepare Your Installation Environment
- Task II: Install or Upgrade Single Mailbox Recovery
- Task III: Enable Any Optional Agents

Task I: Prepare Your Installation Environment

Single Mailbox Recovery ExtractWizard runs on the Windows server on which Microsoft Outlook is running, and it uses native Microsoft Messaging Application Program Interface (MAPI) protocol to communicate with the Microsoft Exchange Server that is running on a separate machine. The following illustration shows an example of a Single Mailbox Recovery ExtractWizard environment in which you can restore mail items from a Microsoft Exchange Server database (EDB) file in a SnapManager backup set Snapshot copy.



Example of a typical Single Mailbox Recovery environment

Before you install or upgrade to Single Mailbox Recovery ExtractWizard 7.2.1, you must prepare your installation environment by verifying system requirements on both of the Microsoft Windows servers and configure Microsoft Outlook so that MAPI is installed on the Single Mailbox Recovery ExtractWizard server.

Supported Environments

Component	Requirement
Operating Systems	The following operating systems are supported: ▪ Windows Server 2008 R2 ▪ Windows Server 2012 ▪ Windows Server 2012 R2 ▪ Windows Server 2016 ▪ Windows 7 ▪ Windows 8
	Note: 32-bit and 64-bit versions of the listed operating systems are supported. Single Mailbox Recovery ExtractWizard can only be run by users with administrative privileges and in administrative mode. If SnapDrive will be used to connect and disconnect LUNs on the Single Mailbox Recovery server, then the operating system requirements must match the system requirements specified in the SnapDrive Installation and Administration Guide for the version of SnapDrive that you are using.
Additional Software	Microsoft .NET Framework : ▪ 3.5 SP1 ▪ 4.0

Other Requirements

- To use Auto Support (ASUP), a NetApp storage appliance must be available on the network and an ONTAP user must be created with permissions to log AutoSupport messages.

Additional Notes

For connecting and disconnecting LUNs:

- Optional but recommended. SnapDrive

The SnapDrive version must be compatible with the version of Data ONTAP that is running on your NetApp storage system.

- FCP or iSCSI connectivity to the NetApp storage system

One or more NetApp storage systems must exist in the same network environment as the machine on which you run Single Mailbox Recovery.

Prerequisites for Single Mailbox Recovery ExtractWizard

- Single Mailbox Recovery ExtractWizard requires that the tape drive be configured and active in the Device Manager.
- Single Mailbox Recovery ExtractWizard works best with Windows drivers supplied directly from the manufacturer of the tape drive hardware.
- If Single Mailbox Recovery ExtractWizard is installed on your backup server, make sure the services for the backup software are disabled.

Task II: Install or Upgrade Single Mailbox Recovery ExtractWizard

If you are upgrading from a trial version of Single Mailbox Recovery ExtractWizard, first uninstall the trial version and then install the fully enabled release of Single Mailbox Recovery ExtractWizard.

Updating Single Mailbox Recovery ExtractWizard

Single Mailbox Recovery ExtractWizard is periodically improved with added features, changes based on customer requests, and fixed problems. When an update becomes available, follow these steps to download and install the update from the NetApp Support Site:

1. Using your web browser, navigate to <http://support.netapp.com/eservice/SupportHome.jsp>.
2. Hover over **Downloads** and select **Software Downloads**.
3. When the Download Software page appears, do the following:
 - Locate the listing for Single Mailbox Recovery.
 - Select the **Microsoft Exchange** platform.
 - Click **Go**.
4. On the Single Mailbox Recovery ExtractWizard page, locate the listing for the latest version and click **View and Download**.
5. Read the Single Mailbox Recovery ExtractWizard Description page and click **Continue**.
6. Read the License page and click **Accept**.
7. Read and follow the instructions on the Single Mailbox Recovery ExtractWizard Download page.

Task III: Enable Any Optional Agents

Single Mailbox Recovery ExtractWizard includes all of the agents described in "**Single Mailbox Recovery ExtractWizard Agents**" on page 5. The Single Mailbox Recovery ExtractWizard agent for Microsoft NT Backup and the Single Mailbox Recovery ExtractWizard agent for Symantec Backup Exec are enabled by default at no extra cost. All other agents are disabled by default. The following paragraphs describe the license file and how to enable optional Single Mailbox Recovery ExtractWizard agents.

About the license file

Single Mailbox Recovery ExtractWizard requires a license file. The license file is a NetApp-supplied, read only text file that specifies license settings. Before Single Mailbox Recovery ExtractWizard enables itself, it checks the license file for the following:

- **Software version.** The license file must be valid for **Single Mailbox Recovery 7.2.1**.
- **Licensed agents.** Only the agents specified in the license file will be enabled.

Viewing and enabling agents

You can view which agents are currently enabled and also have other agents enabled through your sales representative.

To view the currently enabled agents

- On the **Help** menu, click **About** and then click **License Info**.

To enable an agent

1. Contact a sales representative and specify which agent you wish to purchase. A license file containing the newly enabled agent will be sent to you.
2. Replace the existing .ini file with the new license file. The default location for this file is in the Single Mailbox Recovery ExtractWizard directory.

Upgrading Single Mailbox Recovery ExtractWizard

If Single Mailbox Recovery ExtractWizard 7.1 or later is installed, is active, and you are upgrading to Single Mailbox Recovery ExtractWizard 7.2.1, you can reuse the existing Single Mailbox Recovery ExtractWizard license file with Single Mailbox Recovery ExtractWizard 7.2.1.

Technical Support

If you have issues not addressed in the user guide or the online Help, contact our Technical Support group. When reporting an issue, please include any information that might help us diagnose the problem and have the following:

- The version of you are using (on the Help menu, click About)
- The versions of Windows operating systems that you are running
- The circumstances and sequence of steps that led to the problem
- The text of the error messages (if any appeared)
- A list of other Windows-based programs that you were running when the error occurred

Contact Information

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