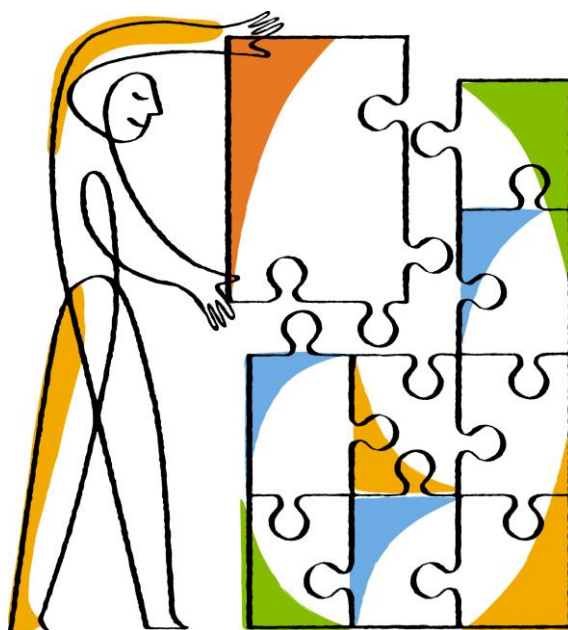




Single Mailbox Recovery 7.2.1

Release Notes



NetApp® Single Mailbox Recovery 7.2.1

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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 calendar, notes, and tasks directly to your production Microsoft Exchange Server or any 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.

New and Modified Features

Single Mailbox Recovery 7.2.1 supports Microsoft Exchange Server 2016 Cumulative Update 5.

Single Mailbox Recovery Licensing

All Single Mailbox Recovery editions require a license file. Single Mailbox Recovery Administrative Server software is licensed based on the enabled agents and mailbox count.

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

1. 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 Agents

Single Mailbox Recovery is distributed with the following agents:

- PST Source Agent
- Advanced Searching Agent
- Public Folders Agent
- Archive Mailboxes Agent
- Single Mailbox Recovery ExtractWizard Agents

PST Source Agent

By default, Single Mailbox Recovery enables you to open an EDB file as the source of the Microsoft Exchange Server mail items to be restored to your production Microsoft Exchange Server or to a new or existing PST file. If you enable the optional PST source agent (priced separately), you can also open a PST file as the source of the Microsoft Exchange Server mail items.

Advanced Searching Agent

By default, Single Mailbox Recovery enables you to search attachment text for user-defined keywords or phrases. If you enable the optional advanced searching agent (priced separately), you can also search any combination of attachment text, message subject, message body, and attachment file names.

Public Folders Agent

By default, Single Mailbox Recovery enables you to open a Public Folder EDB or an EDB containing Public Folder mailboxes as the source of Microsoft Exchange Server public folders content to be restored to your production Microsoft Exchange Server or to a new or existing PST file.

Archive Mailboxes Agent

By default, Single Mailbox Recovery enables you to open an EDB containing Archive Mailboxes as the source of Microsoft Exchange Server mail items to be restored to your production Microsoft Exchange Server or to a new or existing PST file.

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.

For more information, see the Single Mailbox Recovery 7.2.1 Extract Wizard Release Notes.

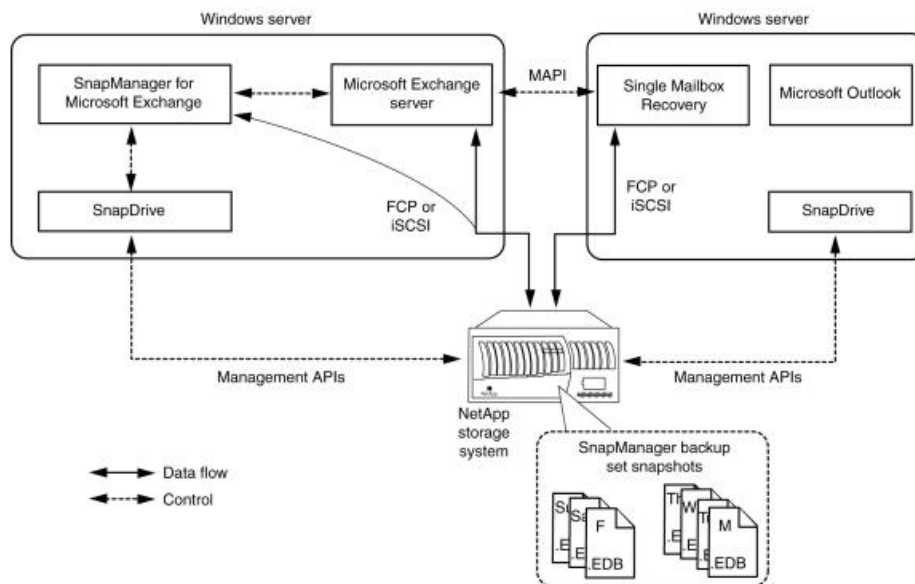
Installing or Upgrading Single Mailbox Recovery

To install or upgrade to Single Mailbox Recovery 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 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 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 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 server.

Supported Environments

Component	Requirement
Browser	Microsoft Internet Explorer 8.0 or later
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 can only be run by users with administrative privileges and in administrative mode.
Source Microsoft Exchange Database (offline)	The following versions of Microsoft Exchange Server are supported as offline source databases: - Microsoft Exchange Server 5.5 - Microsoft Exchange Server 2000 - Microsoft Exchange Server 2003 - Microsoft Exchange Server 2007 through SP3 - Microsoft Exchange Server 2010 through SP3 - Microsoft Exchange Server 2013 through SP1 - Microsoft Exchange Server 2016
Target (live) Microsoft Exchange Server	The following versions of Microsoft Exchange Server are supported as live targets: - Microsoft Exchange Server 2007 through SP3 - Microsoft Exchange Server 2010 through SP3 - Microsoft Exchange Server 2013 through SP1 - Microsoft Exchange Server 2016
Microsoft Office (Microsoft Outlook)	Microsoft Office Outlook 2007 and later (32-bit versions only).
Additional Software	Microsoft .NET Framework : 3.5 SP1

Component	Requirement
	▪ 4.0 <i>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.</i>

Other Requirements

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

Mailbox Creation Wizard

To use Mailbox Creation Wizard on your computer, you must have the Microsoft Exchange Server management tools for the version of Microsoft Exchange Server that you will be creating mailboxes on. Ensure the Microsoft Exchange Server management tools and Microsoft Exchange Server version, service pack, and roll up level are matched.

For supported operating system and prerequisite requirements for the Microsoft Exchange Management Tools, please refer to the Microsoft Exchange Management Tools documentation for your specific version.

Requirements for LUNs That Have Been Transitioned with the 7-Mode Transition Tool

Accessing Dedicated and Shared LUNs After Transition

After transitioning LUNs from 7-Mode to clustered Data ONTAP using the 7-Mode Transition Tool, you must perform certain actions before you can access dedicated and shared LUNs for mailbox restore operations.

Before you begin

You should review the 7-Mode Transition Tool capabilities and limitations to understand the impact of these limitations on your transitioned LUNs. See the 7-Mode Transition Tool documentation set.

About this task

Steps

1. Add the clustered Data ONTAP IP address and credentials in the transport settings in SnapDrive.
2. Create iSCSI sessions from SnapDrive to the iSCSI LIFs to identify the LUNs in the clustered Data ONTAP cluster.
3. Continue with the normal restore operations.

Related information

7-Mode Transition Tool 2.0 Data and Configuration Transition Guide

Mailboxes cannot be restored using Snapshot copies transitioned from 7-mode to clustered Data ONTAP using the 7-Mode Transition Tool

You cannot restore mailboxes using Snapshot copies that reside on LUNs that have been transitioned from 7-mode to clustered Data ONTAP using the 7-Mode Transition Tool. However, you can restore mailboxes from the new Snapshot copies you create.

The following limitation is associated with this issue:

- Mounting Snapshot copies that have been transitioned from Data ONTAP operating in 7-Mode using the 7-Mode Transition Tool is not supported.

Task II: Install or Upgrade Single Mailbox Recovery

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

Updating Single Mailbox Recovery

Single Mailbox Recovery 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 page, locate the listing for the latest version and click **View and Download**.
5. Read the Single Mailbox Recovery Description page and click **Continue**.
6. Read the License page and click **Accept**.
7. Read and follow the instructions on the Single Mailbox Recovery Download page.

Task III: Enable Any Optional Agents

Single Mailbox Recovery includes all of the agents described in "**Single Mailbox Recovery Agents**" on page 5. The Single Mailbox Recovery agent for Microsoft NT Backup and the Single Mailbox Recovery 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 agents.

About the license file

Single Mailbox Recovery requires a license file. The license file is a NetApp-supplied, read only text file that specifies license settings. Before Single Mailbox Recovery 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 directory.

Upgrading Single Mailbox Recovery

If Single Mailbox Recovery 7.1 or later is installed, is active, and you are upgrading to Single Mailbox Recovery 7.2.1, you can reuse the existing Single Mailbox Recovery license file with Single Mailbox Recovery 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 version of Microsoft Exchange Server that contained the source EDB file
- 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

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