



# DS-Recovery Tools Installation Guide



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<b>DS-Recovery Tools Installation</b> .....	<b>4</b>
<b>Before you install DS-Recovery Tools</b> .....	<b>5</b>
Installation Platform Requirements .....	5
Supported Servers (for Backup / Restore) .....	7
MS Exchange Requirements .....	8
MS Outlook Requirements .....	11
Lotus Domino / Lotus Notes Server Requirements .....	12
GroupWise Requirements .....	12
MS SharePoint Requirements .....	13
<b>Install DS-Recovery Tools</b> .....	<b>14</b>
Step 1. Run the Installation Program .....	14
Step 2. Select Installation Location .....	14
Step 3. Select the types of backup items .....	14
Step 4. DS-Recovery Tools Startup / Service Logon Account .....	14
Step 5. E-Mail Server Settings .....	15
Step 6. Start Copying Files .....	15
<b>DS-Recovery Tools Upgrade</b> .....	<b>16</b>
Manual Upgrade .....	16
Auto Upgrade .....	16

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# DS-Recovery Tools Installation

DS-Recovery Tools offer solutions to perform on-line backup / restore of:

- E-Mail messages at the individual message level (Message Level Restore).
- MS SharePoint servers at individual item-level.

The following services are installed, depending on your installation selections:

### **DS-MLR Service**

- DS-MLR Service is for E-Mail messages.
- DS-MLR searches for new E-Mails based on a user defined filter.
- DS-MLR transforms the E-Mail into a data stream and passes this stream to DS-Client for processing in order to back it up to DS-System.
- E-Mails are saved as individual objects on DS-System.

### **DS-Recovery Tools Service**

- DS-Recovery Tools Service is for MS SharePoint.

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Note: “DS-Recovery Tools” consists of DS-MLR Service and/or DS-Recovery Tools Service.

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The DS-Recovery Tools must be installed and running on the computer where the E-Mails are stored or where MS SharePoint is running.

- Like other DS-Client tools, your Service Provider must enable DS-Recovery Tools from the DS-System.
- Once enabled, your DS-Client can connect to any running DS-MLR service or DS-Recovery Tools service.

## Before you install DS-Recovery Tools

Make sure the target installation computer meets the following requirements:

Note: If the target installation platform is 32-bit, you must install the 32-bit version of DS-Recovery Tools. Similarly, if the target installation platform is 64-bit, you must install the 64-bit version of DS-Recovery Tools. Do not install the 32-bit version on a 64-bit platform, since it will be missing required components.

### Installation Platform Requirements

For the official list of this product's supported Operating Systems and versions, refer to the **Installation and Support Matrix**. This can be found on the Installation DVD in the following path:

- \Documentation\Release\_Information

Service	Platform	Version
<b>DS-MLR Service for E-Mail Message Server type:</b> <ul style="list-style-type: none"> <li>• Microsoft Exchange</li> </ul> <p>The tool can be installed on all these platforms. However, the backup target (i.e. the specific Exchange server version) may not be supported on all these platforms.</p>	Windows® 2008 x64 (64-bit)	<ul style="list-style-type: none"> <li>• Standard SP2 / R2 SP1</li> <li>• Enterprise SP2 / R2 SP1</li> <li>• SBS SP2</li> <li>• Data Center SP2 / R2 SP1</li> </ul>
	Windows® SBS 2011 (64-bit)	<ul style="list-style-type: none"> <li>• Standard</li> </ul>
	Windows® 2012 (64-bit)	<ul style="list-style-type: none"> <li>• Essentials / R2</li> <li>• Standard / R2</li> <li>• Data Center / R2</li> </ul>
<b>DS-MLR Service for E-Mail Message Server type:</b> <ul style="list-style-type: none"> <li>• Microsoft Outlook</li> </ul> <p>The tool can be installed on all these platforms. However, the backup target (i.e. the specific Outlook server version) may not be supported on all these platforms.</p>	Windows® VISTA x86 (32-bit) or x64 (64-bit)	<ul style="list-style-type: none"> <li>• Ultimate SP2</li> <li>• Enterprise SP2</li> <li>• Home Basic SP2</li> <li>• Business SP2</li> <li>• Home Premium SP2</li> </ul>
	Windows® 2008 x86 (32-bit)	<ul style="list-style-type: none"> <li>• Standard SP2</li> <li>• Enterprise SP2</li> </ul>
	Windows® 2008 x64 (64-bit)	<ul style="list-style-type: none"> <li>• Standard SP2 / R2 SP1</li> <li>• Enterprise SP2 / R2 SP1</li> <li>• Data Center SP2 / R2 SP1</li> </ul>
	Windows® 7 x86 (32-bit) or x64 (64-bit)	<ul style="list-style-type: none"> <li>• Ultimate SP1</li> <li>• Professional SP1</li> <li>• Enterprise SP1</li> </ul>
	Windows® 2012 (64-bit)	<ul style="list-style-type: none"> <li>• Essentials / R2</li> <li>• Standard / R2</li> <li>• Data Center / R2</li> </ul>
	Windows® 8 (32-bit or 64-bit)	<ul style="list-style-type: none"> <li>• Windows 8</li> <li>• Pro</li> <li>• Enterprise</li> </ul>
	Windows® 8.1 x86 (32-bit) or x64 (64-bit)	<ul style="list-style-type: none"> <li>• Windows 8.1</li> <li>• Pro</li> <li>• Enterprise</li> </ul>
	Windows® 10 x86 (32-bit) or x64 (64-bit)	<ul style="list-style-type: none"> <li>• Professional</li> <li>• Enterprise</li> </ul>

<p><b>DS-MLR Service for E-Mail Message Server type:</b></p> <ul style="list-style-type: none"> <li>Lotus (IBM Domino &amp; IBM Notes)</li> </ul> <p>The tool can be installed on all these platforms. However, the backup target (i.e. the specific Lotus server version) may not be supported by the vendor on all these platforms.</p>	Windows® VISTA x86 (32-bit) or x64 (64-bit)	<ul style="list-style-type: none"> <li>Enterprise SP2</li> <li>Business SP2</li> </ul>
	Windows® 7 x86 (32-bit) or x64 (64-bit)	<ul style="list-style-type: none"> <li>Professional SP1</li> <li>Enterprise SP1</li> </ul>
	Windows® 2008 x86 (32-bit)	<ul style="list-style-type: none"> <li>Standard SP2</li> <li>Enterprise SP2</li> </ul>
	Windows® 2008 x64 (64-bit)	<ul style="list-style-type: none"> <li>Standard SP2 / R2 SP1</li> <li>Enterprise SP2 / R2 SP1</li> </ul>
	Windows® 8 / 8.1 x64 (64-bit)	<ul style="list-style-type: none"> <li>Standard</li> <li>Pro</li> <li>Enterprise</li> </ul>
<p><b>DS-MLR Service for E-Mail Message Server type:</b></p> <ul style="list-style-type: none"> <li>GroupWise</li> </ul> <p>The tool can be installed on all these platforms. However, the backup target (i.e. the specific GroupWise server version) may not be supported by the vendor on all these platforms.</p>	Windows® VISTA x86 (32-bit)	<ul style="list-style-type: none"> <li>Ultimate SP2</li> <li>Enterprise SP2</li> <li>Business SP2</li> </ul>
	Windows® 2008 x86 (32-bit)	<ul style="list-style-type: none"> <li>Standard SP2</li> <li>Enterprise SP2</li> </ul>
	Windows® 7 x86 (32-bit)	<ul style="list-style-type: none"> <li>Ultimate SP1</li> <li>Professional SP1</li> <li>Enterprise SP1</li> </ul>
	Windows® 2012 (64-bit)	<ul style="list-style-type: none"> <li>Essentials / R2</li> <li>Standard / R2</li> <li>Data Center / R2</li> </ul>
<p><b>DS-Recovery Tools Service for:</b></p> <ul style="list-style-type: none"> <li>Microsoft SharePoint Servers</li> </ul> <p>The tool can be installed on all these platforms. However, the backup target (i.e. the specific SharePoint server version) may not be supported by the vendor on all these platforms.</p>	Windows® 2008 x86 (32-bit)	<ul style="list-style-type: none"> <li>Standard SP2</li> <li>Enterprise SP2</li> <li>SBS SP2</li> </ul>
	Windows® 2008 x64 (64-bit)	<ul style="list-style-type: none"> <li>Standard SP2 / R2 SP1</li> <li>Enterprise SP2 / R2 SP1</li> <li>SBS SP2</li> <li>Data Center R2 SP1</li> </ul>
	Windows® 2012 x64 (64-bit)	<ul style="list-style-type: none"> <li>Server / R2</li> </ul>

## Supported Servers (for Backup / Restore)

E-Mail Message Server	Version	Special Requirements
MS Exchange (Clustered and non-Clustered)	<ul style="list-style-type: none"> <li>• 2003 (x86)</li> <li>• 2007 (x64)</li> </ul>	See “MS Exchange Requirements” on page 8.
MS Exchange (DAG and Stand-Alone)	<ul style="list-style-type: none"> <li>• 2010 (x64) **</li> <li>• 2013 (x64) **</li> </ul>	** In addition to E-Mail level backup and restore, supports Item-Level restores using DS-Recovery Tools from full MS Exchange 2010 or 2013 backups (made with the VSS-aware backup set type).
MS Outlook	<ul style="list-style-type: none"> <li>• 2003</li> <li>• 2007</li> <li>• 2010</li> </ul>	See “MS Outlook Requirements” on page 11.
Lotus Domino / Lotus Notes (IBM Domino & IBM Notes)	<ul style="list-style-type: none"> <li>• 8</li> <li>• 8.5</li> <li>• 8.5.2</li> <li>• 8.5.3</li> </ul>	See “Lotus Domino / Lotus Notes Server Requirements” on page 12.
GroupWise	<ul style="list-style-type: none"> <li>• 7.0</li> <li>• 8.0</li> <li>• 2012</li> </ul>	See “GroupWise Requirements” on page 12.
Microsoft SharePoint Server	Version	Special Requirements
MS SharePoint	<ul style="list-style-type: none"> <li>• 2007</li> <li>• 2010</li> <li>• 2010 SP1 *</li> <li>• 2013 *</li> </ul>	See “MS SharePoint Requirements” on page 13.  * Supports Item-Level restores using DS-Recovery Tools from full SharePoint 2010 SP1 or 2013 backups (made with the VSS-aware backup set type).

## MS Exchange Requirements

Requirements on the MS Exchange Server:

- Install DS-Recovery Tools (DS-MLR Service) on the MS Exchange Server.
- For MS Exchange 2010, you must install the DS-MLR Service on the server where the CAS (Client Access Server) Role is installed.
- The MAPI client is still required by DS-MLR and must be downloaded and installed separately from Microsoft (free download). For Exchange 2007 / 2010, you must download it separately from Microsoft and install it on the DS-MLR machine / Exchange server.

Requirements when creating the E-Mail backup set:

- To backup E-Mails of clustered MS Exchange 2003 Servers, you must select the virtual computer of the Exchange Cluster and the DS-MLR must be installed on all Exchange cluster nodes.
- To backup E-Mails of clustered MS Exchange Servers v.2007 and newer, you must install the MAPI Client and DS-MLR on one of the computers holding the Exchange Client Access Server role and select this CAS server with DS-MLR installed when creating the E-Mail Messages backup set.

For backup of MS Exchange Server E-Mails, the DS-MLR Service Account has additional requirements:

- The DS-MLR Service Account determines the rights to backup the MS Exchange Server's E-Mails. Even if the service is run by a user from the local Administrators group, that user may not have enough rights to backup all the MS Exchange Server's E-Mails.
- Users that are members of the Domain Admins Group, or who are delegated as "Exchange Full Administrator" should be able to backup all E-Mails from the MS Exchange Server. However, sometimes those users are not explicitly granted the necessary privileges. Therefore, the DS-MLR tries to grant itself those rights and use them on behalf of privileged users.
- The following table shows the User Scenarios for backup / restore, depending on the permissions of the DS-MLR Service Account:

Service Account is a member of:	User Scenarios
Domain Admins	<ul style="list-style-type: none"> <li>• DS-MLR service account must be a member of Domain Admins and local/Builtin Administrators groups.</li> <li>• This scenario is simple, but some network security policies may not allow use of the Domain Admins group.</li> </ul>
Domain User	<ul style="list-style-type: none"> <li>• DS-MLR service account must be a member of local Administrators group.</li> <li>• DS-MLR service account must be a member of Domain Builtin Backup Operator or Administrators group.</li> <li>• DS-MLR service account must be delegated as Exchange Full Administrator.</li> <li>• This scenario is a little complicated, but does not require use of the Domain Admins group.</li> </ul>
Local Administrator	<ul style="list-style-type: none"> <li>• This option is more flexible from a network security standpoint.</li> <li>• However, when starting up, DS-MLR may fail to grant the "Receive As" right for some or all mailboxes to the service account.</li> <li>• Therefore, you must manually add the "Receive As" privilege to the Windows User account for the backup set (Backup Set Properties &gt; Connection Tab).</li> </ul>



- The installation verifies if the service account is Domain Admins or Exchange Full Administrator:

Service Account Verification (MS Exchange Servers)
<p>1. If it is a member of Domain Admins, installation continues.</p> <p>2. If it is an Exchange Full Administrator, a warning message will popup: "The service account is not a domain administrator. DS-MLR will grant "Receive As" right for this account. Click OK to continue. Click Cancel to select another account."</p> <p>3. If it is neither, a warning message will popup: "The service account is not a domain administrator or Exchange Full Administrator. Only users with "Receive As" right will be able to backup E-Mails from other mailboxes. Click OK to continue. Click Cancel to select another account."</p> <p>4. If the user that runs the installation does not have rights to Active Directory, and / or the service account is not a member of the Domain Admins group, the Installation is not able to check if the account is an Exchange Full Administrator. The Installation will popup a warning message: "Installation can not verify if the Service account is an Exchange Full Administrator. If it is not, only users with "Receive As" right will be able to backup E-Mails from other mailboxes. Click OK to continue. Click Cancel to select another account."</p> <p>5. For each backup or restore request, DS-MLR checks if the user is a member of the Domain Admins group or is an Exchange Full Administrator, and if the service account has the "Receive As" privilege:</p> <ul style="list-style-type: none"><li>• If yes, DS-MLR will proceed using the service account and the user will be able to see all mail boxes.</li><li>• If no, DS-MLR will proceed using the user's credentials.</li></ul>

- **Microsoft Exchange Contacts and Distribution Lists:**

Contacts and Distribution Lists may need to be handled with different APIs in order to successfully backup Microsoft Exchange Servers.

Backup using MAPI API	Backup using Exchange CDO API • (up to Microsoft Exchange 2007)
<p>Because the Distribution Lists and Contacts are Outlook-based attributes, the DS-MLR can use MAPI to perform backups. MAPI has the following limitations based on the DS-MLR service account:</p> <ul style="list-style-type: none"> <li>• In order to logon to another user's mailbox through MAPI, the service account needs the "receive as" right, and the right to create a temporary profile.</li> <li>• DS-MLR can grant the "receive as" right if the DS-MLR service account is either a Domain Admin or an Exchange Full Admin.</li> </ul>	<p>If DS-MLR uses Exchange CDO to backup all items, some Outlook attributes (like the members list of the Distribution List) cannot be read. With CDO, DS-MLR has the following limitations:</p> <ul style="list-style-type: none"> <li>• The restored Distribution Lists are empty.</li> <li>• The restored Contacts cannot be seen in Outlook Address Book.</li> </ul>

1. Both CDO and MAPI APIs are kept in DS-MLR. The default is to try using MAPI API.
2. If DS-MLR fails to grant "receive as" right to its DS-MLR service account, then DS-MLR will use the CDO API.
3. If DS-MLR fails to use MAPI, then DS-MLR will use the CDO API.
4. When using the CDO API, DS-MLR will not backup the Distribution List.

Important notes about MAPI and CDO for newer Microsoft Exchange Server releases:

- From Microsoft Exchange 2007, the MAPI (Messaging Application Programming Interface) client was removed from the installation.
- From Microsoft Exchange 2010, the CDO client is no longer supported. Only the MAPI client will work, even though it is not included with the default Exchange 2010 installation.
- The MAPI client is still required by DS-MLR and must be downloaded and installed separately from Microsoft (free download). For Exchange 2007 / 2010, you must download it separately from Microsoft and install it on the DS-MLR machine / Exchange server.

## DS-MLR with Microsoft Exchange Server 2013 - Additional Configurations Required

Before creating E-Mail Message backup sets of Microsoft Exchange 2013 servers, you must perform the following configurations.

1. Make sure that the DS-MLR service account has granted proper permission to other user mailboxes; the power shell commands that grant permissions to the DSMLR account are the following:

```
Add-AdPermission -Identity "Exchange Administrative Group
(FYDIBOHF23SPDLT)" -User "<Domain>\<UserYouCreated>" -AccessRights
GenericAll -ExtendedRights Receive-As,Send-As
```

and

```
Get-Mailbox | Add-MailboxPermission -User "<Domain>\<UserYouCreated>"
-AccessRights FullAccess
```

2. A registry key must be created and configured on the Exchange server where the DS-MLR is installed (the one that runs the Client Access Server role).
  - Add a new REG\_SZ value under the DSMLR service account's registry hive, under HKCU\Software\Microsoft\Windows NT\CurrentVersion\Windows Messaging Subsystem

- This registry value's name should begin with RPCHTTPProxyMap. It is recommended that each application appends an additional identifier to prevent overwriting existing mappings, like the following:  
`RPCHTTPProxyMap_DSMLR`
- Populate this registry value with the DNS domain name, then an equal sign followed by the fully qualified domain name (FQDN) of the RPC Proxy server, followed by a comma, then the proxy server settings in the "RpcHttpAuthenticationMethod,RpcAuthenticationMethod," format, and then indicate what the subsystem should do when an invalid certificate is encountered. A value of "true" indicates that invalid certificates should be ignored.
- An example of such a registry value is the following:  
`mydomain.local=https://myexchange.mydomain.local,ntlm,ntlm,false`
- For Microsoft Exchange 2013, depending on the setup of the domains, you may need to add more than one Registry Key. For example:
  - The full DNS name of the Exchange 2013 CAS Server (where DS-MLR is intended to be deployed) is 'ex01.mainsubdom.domain.local' (so the main domain is 'mainsubdom.domain.local').
  - The users' mailboxes are configured with a different primary domain, for example 'primdom.domain.local' (meaning all users have their primary SMTP address configured as <username>@primdom.domain.local).
  - To configure the domain mapping, log on into Windows on the DS-MLR computer with the DS-MLR service account, add (in registry under HKCU\Software\Microsoft\WindowsNT\CurrentVersion\Windows Messaging Subsystem) two different REG\_SZ values, one for each domain, like:  
`RPCHTTPProxyMap_DSMLR`, with its value set to:  
`mainsubdom.domain.local=https://ex01.mainsubdom.domain.local,ntlm,ntlm,false`  
and `RPCHTTPProxyMap_DSMLR1`, with its value set to:  
`primdom.domain.local=https://ex01.mainsubdom.domain.local,ntlm,ntlm,false`
  - Alternatively, you can combine the two into one REG\_SZ value if there is a common root to the domains (in this example '\*.domain.local'):  
`RPCHTTPProxyMap_DSMLR`, with its value set to:  
`*.domain.local=https://ex01.mainsubdom.domain.local,ntlm,ntlm,false`

## MS Outlook Requirements

- Install DS-Recovery Tools (DS-MLR Service) on the computer with MS Outlook.
- The DS-MLR Service Account must be a local administrator.

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## Lotus Domino / Lotus Notes Server Requirements

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Note: Lotus Domino is now branded IBM Domino, and Lotus Notes is now branded IBM Notes.

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- Install DS-Recovery Tools (DS-MLR Service) on the Lotus Notes Client or Lotus Domino Server.
- The DS-MLR Service Account must be a local administrator.

### **Lotus Notes Client Requirements**

- The Lotus Notes Client software must not be configured with the "Connect to Domino Server" option. (Otherwise, the E-Mail database will be on the Domino Server side, which is not supported. As an alternative, you can choose either "POP" or "SMTP" to connect to the Domino Server.)

### **Lotus Domino Server Requirements**

- The Lotus Domino Server must have the files **notes.ini** and **user.id** available locally. They can be copied from a computer that has Lotus Notes Client installed, or you can install Lotus Notes Client/Administrator on the Lotus Domino Server. If they are copied, you must manually edit "KeyFilename" in the notes.ini file to point to the local user.id file.
- In the same folder that contains the notes.ini and user.ini files, copy the following files from the DS-Client computer's installation directory (by default C:\Program Files\CloudBackup\DS-Client):  
`dslotus_x64.dll, dslotus.dll, lcppn70.dll, lcppn801.dll`
- You must copy the following files from the DS-Client computer's installation directory to the Lotus Domino Server's installation directory (by default this is C:\Program Files\IBM\Lotus\Domino):  
`nextpwd_x64.dll, nextpwd.dll`

## GroupWise Requirements

- Install DS-Recovery Tools (DS-MLR Service) on the computer with GroupWise client.
- The DS-MLR Service Account must be a local administrator.
- The target DS-MLR computer must be running Novell Client (v 4.9.0 SP2 or higher) and GroupWise client (v 7 or higher).
- Copy both **Regtapp.exe** and **GWTApp.dll** from the DS-Recovery Tools Installation directory to the target DS-MLR Service computer.
- From the Command Prompt, run "Regtapp.exe \\Groupwise\_Domain\_server\PathToGroupwise\_Domain\_Folder". This will return a "Trusted application key": a number that you must input during DS-MLR Installation (see "[GroupWise Settings](#)" on page 15 ). (Save this key and use it for all other DS-MLR Service Installations that will backup this GroupWise server.)
- In order to backup a GroupWise server with multiple DS-MLR services, you must configure all DS-MLR services with the same "Trusted application key".
- For GroupWise 2012, on the GroupWise server, you must create the DS-MLR "Trusted application key" in Novell ConsoleOne > GroupWise System Operations > Trusted Applications > Create.

- For GroupWise 2012, on the DS-MLR machine, you must follow the instructions in the following Novell knowledge base articles, otherwise you may get errors getting the user list during backups:
  - Novell TID 7000312: for Novell Client 4.91
  - Novell TID 7008266: for Novell Client 2

## **MS SharePoint Requirements**

- Install DS-Recovery Tools (DS-Recovery Tools service) on the computer with MS SharePoint.
- The DS-Recovery Tools Service Account must be a local administrator.

# Install DS-Recovery Tools

## Step 1. Run the Installation Program

1. [Option A] Run the installation program from the download directory or from the corresponding folder on the installation DVD:  
32-Bit Version: \Software\DS-Recovery-Tools\Windows\_32\_bit\setup.exe  
64-Bit Version: \Software\DS-Recovery-Tools\Windows\_64\_bit\setup.exe  
[Option B] Run the Installation Center for Windows Products (**setup.exe**) located in the root directory of the installation DVD.
  - The Installation Center is a common launcher for all Windows-platform installations. It allows you to choose the specific installation package you want, without the need to browse the installation DVD.
2. Choose the Setup Language:
  - English
  - German
3. A pre-requisite check is performed on the installation machine. This scans the hardware and Operating System for compatibility (see ["Installation Platform Requirements" on page 5](#)).
  - Click "Install". The license agreement screen appears. You must accept the license agreement to continue.
4. Click Next.

## Step 2. Select Installation Location

1. The Choose Destination Location Page appears.
2. You must choose the location where DS-Recovery Tools will be installed, or accept the default one.
3. Click Next.

## Step 3. Select the types of backup items

1. You must select the items that will be backed up with this DS-Recovery Tools installation:
  - MS Exchange / Outlook
  - Lotus (Setup will display the [Lotus Notes / Domino Server Settings](#) screen.)
  - GroupWise (Setup will display the [GroupWise Settings](#) screen.)
  - MS SharePoint
2. Click Next.

## Step 4. DS-Recovery Tools Startup / Service Logon Account

1. The DS-Recovery Tools Service Logon Account screen appears.
2. You are prompted to enter the account to use. This same account will be used for DS-MLR Service and DS-Recovery Tools Service.
  - **Local System Account:** This option will use the Windows "Local System account" instead of a specific user account.
  - **This account:** Enter the Windows User Account and Password in the appropriate fields. This must be a valid Windows user account that has already been created.
    - For MS Exchange, see ["MS Exchange Requirements" on page 8](#)

- For MS Outlook, see ["MS Outlook Requirements" on page 11](#)
  - For Lotus, see ["Lotus Domino / Lotus Notes Server Requirements" on page 12](#)
  - For GroupWise, see ["GroupWise Requirements" on page 12](#)
  - For MS SharePoint, see ["MS SharePoint Requirements" on page 13](#)
3. By default, the Auto Start box is checked. This means the service(s) start automatically each time the target computer boots (recommended).
    - Uncheck this box if you do not want the DS-MLR / DS-Recovery Tools Services to start on reboot. (This means you must manually start the Services before you can use them.)
  4. Click Next.

## Step 5. E-Mail Server Settings

This step depends on the selection in ["Step 3. Select the types of backup items" on page 14](#):

- **MS Exchange / Outlook:** Skip to ["Step 6. Start Copying Files" on page 15](#)
- **Lotus:** Setup will display the ["Lotus Notes / Domino Server Settings" on page 15](#) screen.
- **GroupWise:** Setup will display the ["GroupWise Settings" on page 15](#) screen.

### Lotus Notes / Domino Server Settings

1. The Lotus Notes and Domino Server setting page appears.
2. You must select the path to the Notes.ini file that contains the User ID file.
3. If you are installing to a:

Lotus Notes Client machine	<ul style="list-style-type: none"> <li>• You do not need to provide a password. (This is because in this mode, DS-MLR backs up E-Mails locally from this Lotus Notes machine.) Go to the next step.</li> </ul>
Lotus Domino server	<ul style="list-style-type: none"> <li>• Enter the password for the User ID file (contained in the Notes.ini file). (This User ID file must be for a user who is a full rights Lotus Administrator.) The default path of this file is "C:\Program Files\lotus\notes". DO NOT select the notes.ini file generated by the Domino Server (usually located in "C:\Lotus\Domino").</li> </ul>

4. Click Next.

### GroupWise Settings

1. The GroupWise setting page appears.
2. Enter the GroupWise server IP address.
3. Enter the GroupWise server port.
4. Enter the "Trusted application key" ([See "GroupWise Requirements" on page 12.](#)).
5. Enter the Novell Account and Password. This account is used to connect to the GroupWise Domain path.
6. Click Next.

## Step 6. Start Copying Files

1. When all specific E-Mail type settings are completed, the Start Copying Files screen appears.
2. The installation will indicate when it is finished.
3. Click Finish.

You can start/stop the service(s) from Start > All Programs > Asigra DS-Recovery Tools:

- DS-MLR Service Manager
- DS-Recovery Tools Service Manager

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# DS-Recovery Tools Upgrade

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Before upgrading, read the new version's Release Notes for any special steps you need to perform.

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Normally, the DS-Recovery Tools Service / DS-MLR Service should be the same version / Service Pack as the DS-Clients.

## Manual Upgrade

To manually upgrade DS-Recovery Tools Service / DS-MLR Service from one version / Service Pack to the next, do the following:

1. Make sure the DS-Recovery Tools Service / DS-MLR Service is not running backup/restore activities that are of critical importance for your customers.
2. Stop the DS-Recovery Tools Service / DS-MLR Service.
3. Run the DS-Recovery Tools Release / Service Pack installation on the machine where the DS-Recovery Tools Service / DS-MLR Service software is installed.
4. Finish the installation.
5. Start the DS-Recovery Tools Service / DS-MLR Service.
6. Verify that the DS-Clients can successfully connect to the DS-Recovery Tools Service / DS-MLR Service by triggering a test backup / restore.

## Auto Upgrade

If the DS-System is configured for "Auto Upgrade", the DS-Client will verify what DS-Recovery Tools / DS-MLR Auto Upgrade Packages are available.

When required, DS-Client will download the DS-Recovery Tools / DS-MLR autoupgrade package and save it to a location on the DS-Client computer (the DS-Client Installation directory). The DS-Client will send this package to the DS-Recovery Tools / DS-MLR computer to run the autoupgrade.