

# **Online Backup Client User Manual**

For Microsoft Windows Software Version 4.3.4

Version 2.3

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# 2. Product Information

Product: Online Backup Client

Version: 4.3.4

# 2.1 System Requirements

Operating System	Windows XP
	<ul> <li>Windows Vista, Windows 7, Windows 8</li> </ul>
	<ul> <li>Windows Server 2003 / 2008 / 2008 R2 / 2012</li> </ul>
Hardware Resources	<ul> <li>PC with 1 Gigahertz (GHz) or higher processor clock speed recommended</li> </ul>
	1 GB memory
	25 MB of disk space
	<ul> <li>Internet connection (e.g. ADSL, SDSL)</li> </ul>
Required software	Microsoft .Net framework 4.0

Note: A separate manual is available for the Online Backup Client for Linux and Mac OS X.

**Note**: A separate version, 4.3.1 is available for Windows 2003, which runs on .Net 2.0.

There are two types of accounts: Workstation and Server. The difference between features and Operating Systems are:

Workstation (Home): A user can backup and restore file data and System State.

Server (Professional): A user can backup and restore file data, System State, MS Exchange and MS SQL Server, as well as creating a mapped network drive in the client.

Operating System	Workstation	Server
Windows XP, all editions, 32bit + 64 bit	Х	Х
Windows Vista, all editions, 32bit + 64 bit	Х	Х
Windows 7, all editions, 32bit + 64 bit	Х	Х
Windows 8, all editions, 32bit + 64 bit	Х	Х
Windows Server 2003, all editions, 32bit + 64 bit		Х
Windows Server 2008, all editions, 32bit + 64 bit		Х

Windows Server 2008 R2, all editions, 64 bit Windows Server 2012, all editions, 64 bit

Client 4.3.4 is officially compatible with Windows 7 and Windows 8.

# 3. Features

# 3.1 Application plug-ins

The Online Backup Client makes it very easy to backup Microsoft Outlook, Outlook Express, Favorites and Windows System State, containing e.g. Windows Registry, Active Directory, System and Boot Files.



Figure 1: Data selection options

# 3.2 Scheduled backup

You can make one or more scheduled backup tasks. You can schedule the tasks multiple times a day, weekly or monthly. After the tasks are created, they will run through their schedule automatically. After completion of a backup, a report is sent by e-mail. You are always up-to-date on the status of your backups.

# 3.3 Management Console

The Online Backup Service also includes a Management Console, which can be accessed through an internet browser (e.g. Internet Explorer or Firefox). It has several functions:

- Access your data to restore or remove a file
- Change user settings (e.g. password)
- Overview of your backups through logs and reports



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# 4. Setup

# 4.1 Setup Wizard

After executing the setup you can choose your preferred language for the Setup Wizard. Currently English (United States), English (United Kingdom), Dutch, French, Spanish, German, Italian, Polish, Danish, Norwegian, Hungarian, Portuguese, Romanian, Japanese, Vietnamese and Russian are supported.

Select Se	tup Language
1P	Select the language to use during the installation:
	English (United States)
	OK Cancel

## Figure 2: Choose language

The next steps are:

- Accepting the license agreement
- Choosing an installation directory
- Choosing a Start Menu folder name
- Selecting preferred shortcuts



Figure 3: Setup Online Backup Client

If the .Net framework (4.0) is not yet installed on your computer, you can retrieve this freely from the Microsoft download site.

When the completion screen shows, the Online Backup Client is successfully installed on your computer!

Setup - Online Backup Client	<b>X</b>
Installing Please wait while Setup installs Online Backup Client on your compute	er.
Extracting files	
C:\Program Files\Online Backup Client\Profiles.xml	
inglish (United States)	
Version 4.0.1.0	Cancel

Figure 4: Installing the client



# 4.2 Registration Wizard

When the Online Backup Client is started for the first time, it will start with the Registration Wizard. The Registration Wizard guides you to fill in the account information and encryption key. With the encryption key your data will be encrypted and decrypted.

egistration \		
Thank yo Client	I for using Online Backup	
<b>C</b> - <b>1</b> - <b>1</b>	rted right now with the Registration Wizard.	
Get st	red ngirt now with the Registration wizard.	
This w	zard will help you:	
	Setup your account information	
	Setup your encryption key	
01	click on 'Next' to continue or 'Cancel' to close the registration wizard.	
ricase	cite of the registration within a called to close the registration within a	
	Next Can	cal

Figure 5: Registration wizard

First, you need to fill in the username and password that you have created or obtained from your Online Backup Provider.

R	egistration Wizard	
	Account informat	ion
	Online Backup password.	Client provides an account with a user name and
	User name:	bas.paardekooper
	Password:	********* Forgot your password?
	Computer:	PA-PC1002
	👔 If you do	not have a user name and password, contact Online Backup Client.
		Back Next Cancel

Figure 6: User account

**Note:** This screen also displays the computer name which will be registered at the Backup Server to store all files.

**Note:** If you don't remember your password you can click on the link below the password text field. A reminder will then be sent to your registered e-mail address.

Note: If there is a problem with the username and password, several causes can apply to this:

- The username and/or password does not exist or is incorrect
- The time on your machine differs very much from the real time (more than 24 hours)
- Required port 443 (SSL) is blocked by an anti-virus program or firewall on the network



The next wizard page will ask you to set an encryption key. This key encrypts all backup data and decrypts data when restoring.

You can set the encryption key only once. After setting this key it cannot be changed. If you forget the encryption key, it is impossible to access your backup data. Please keep a copy of the encryption key in a safe place.

crypt

Figure 7: Encryption Key

**IMPORTANT**: This key is unique and can only be chosen once and cannot be changed afterwards. Treat this key with great care, since it is required to restore your files after a system crash.

**Note:** It is possible to store a reminder which can be sent to your personal e-mail address. In this wizard the field to enter the reminder will change into a link: 'Forgot your encryption key?'

The wizard is now finished. If the Online Backup Client is installed for the first time, the Registration Wizard will present the option to start the 'Backup Wizard' after finishing.

Registration Wizard	
Congratulations!	
You have finished the Registration Wizard!	
To change any steps click 'Back', otherwise click 'Finish'.	
Back	Finish Cancel

Figure 8: End of Registration Wizard

# 5. Wizards

# 5.1 Backup Wizard

The Backup Wizard provides a clear and friendly way to detect important data for backup and makes configuring a first backup task very easy.

Backup Wizard	
Get started now with the Online Backup Client Backup Wizard, which will guide you through the process of setting up a backup task.	
This wizard will help you:	
Select your data to backup	
Select a schedule of when to backup your data	

Figure 9: Start of Backup Wizard

The first view in the wizard allows you to name the task. It also provides a dropdown box with profiles of important data. Selecting an item in the drop down box will also show a description of what the profile contains.

00 00				
		-		
op				
cuments and settings				
e choose what to backup	1			
	e choose what to backup	choose what to backp	dissee what to backup	doose what to back-p

Figure 10: Set the task

The next view will allow you to schedule the backup task. You can set time and frequency. The frequency can be set as:

- Once
- Multiple times a day
- Daily
- Weekly
- Monthly

Perform this task:	Daily	-		
Hour:	15:44	Add		
Scheduled runs:	3:44 PM	Remove		
Set Retention				
Default Automatically re	move selected backup data	💌 olderthan 30 💠 d	iey(s)	

Figure 11: Set a schedule and retention

There is also an option to turn retention on or off. More information about retention can be found in paragraph 8.3.4.





Now the backup task is fully configured. When clicking on the 'Finish' button the task will appear in the Online Backup Client. You can also click the 'Advanced' button to specify more options.

Congratulations!				
To setup any areas you ski	pped, click 'Back', othe	rwise click 'Finish'.		

Figure 12: End of Backup Wizard

## 5.1.1 Advanced options

The advanced options consist of two extra steps in the wizard to configure filters and backup location.

## **Filter**

The first view allows you to filter the data in the task. You have to add a filter and determine if the filter ignores the files ('except files') or allows only the files in the filter and ignores all other files ('only files').

ackup Wizard		
Select your data filter		
Hidden files and folders		-
🛄 Include hidden files		
Filter (Does not apply to SQL, Exchange, MAPI and system state resources)		- 1
No file filtering		
Except specific files and folders		
	Add Folder	
	Add Pile Types	
	Add Path Pattern	
	Remove	
Exclude all but specific files		
	Add File Types	
	Remove	
		-
	Back Next	Cancel

Figure 13: Select a filter

## Local Backup

The next view of 'Advanced' will allow you to determine if the backup has to be performed online or locally (offline backup). If you choose to backup locally, you need to specify the destination location for the backup (a local folder on the pc or an external medium).

When you enable compression, the result will be put in a Figure 14: Select Offline Backup (local zip archive. This can take a while to complete. If you leave this option disabled, compression on the individual files will still be applied but they will not be placed in a zip archive.

Select the type	of backup
Backup type	
Online back	cup
Offline back	kup (local backup)
📃 Enable	compression
	C:\Users\bas.paardekooper\Deskto

backup)

#### A removable hard disk can be selected as a local backup location. Tip:



# 5.2 Restore Wizard

The Restore Wizard provides a clear and friendly way to restore your data. Click on Restore Wizard in the 'Home' view of the Online Backup Client.

Get started now with the Online Backup Client Restore Wizard, which will guide you through the restore process.	
This wizard will help you:	
Select your data to restore	
<ul> <li>Select your data to restore</li> <li>Select the rules as they apply to your restore preference</li> </ul>	
<ul> <li>Select the rules as they apply to your restore preservice</li> </ul>	

Figure 15: Start of Restore Wizard

In the next view you can see the data on the Backup Server. Here you can select the data that needs to be restored.

What do you want to restore?				
Folders	Nee Pote 1.1docx Mara 21.4docx Mara 31.4docx Mara 31.4docx Ma	521 KB 521 KB	Rotenton Personant Personant Personant Personant Personant Personant Personant	

Figure 16: Select your file or folder

Next, you can specify the location where the restored data must be placed and what to do with duplicate files.

Next to that you can choose to calculate the restore size. Enabling this option allows the Online Backup Client to give an estimation of the restore time remaining. Skipping this calculation saves time.

In the next view you can choose to filter out specific files or folders during the restore.

By clicking 'Start' in the last screen, the restoration of your files will begin.

elect the restore rules				
ocation:				
Default (C:\Online Backup Clie	nt/Restored/1111201	0)		
Original Location				
Selected Location				Browse
Duplicate Files				
Overwrite				
Rename				
Skip				
Ask me				
] Calculate restore size before dow	nioading (enables ti	me indication)		

Figure 17: Restore rules

ect your data filter		
Filter (Does not apply to SQL, Exchange, MAPI and system sta No file filtering Except specific files and folders	te resources)	
	Add Folder	
	Add File Types	
	Add Path Pattern	
	Remove	
Exclude all but specific files		
	Add File Types	
	Remove	
	Back Next	Cancel

Figure 18: Data filter



# 6. The client interface

The main interface of the Online Backup Client, shown in the figure on the right, consists of 3 components:

- 1. Navigation Panel
- 2. Account Information
- 3. Main Panel (e.g. Home)



Figure 19: Client interface

## **Navigation panel**

The Navigation Panel is the main navigation through the Online Backup Client. The options:

- Home: Monitor the status and use Wizards
- Backup: Create and manage backup tasks
- Restore: Restore your remote backup data
- Reports and Logs: View status information of executed backups
- Options: Configure program settings
- Support: View contact information for support
- About: Additional information about the Online Backup Client

## Account Information

Shows account details, such as:

- Account Name
- Amount of Remote Storage
- Program Status
- Usage of your Remote Storage

## **Main Panel**

The Main Panel is the working space of the Online Backup Client. This panel will change its view, while navigating through the Online Backup Client.



## **Overall status**

When starting the Online Backup Client, the program will show the Home view. This view can also be accessed through the Navigation Panel. On top of the Home view you can see the overall status of the backup service.



#### Figure 20: Overall Status

## Wizards

Right beneath the overall status, you can start Wizards to help you with registration, creation of backup tasks and restoration of data.

💊 Registration Wizard 🔮 Backup Wizard			
🄮 Backup Wizard	Registration	Wizard	
	🥶 Backup Wizar	rd	

#### Figure 21: Supportive Wizards

## **Task statuses**

At the bottom of the Home view the latest five backups are shown. Next to the task names you can see the status and the date/time they finished.

Below the table the next scheduled backup task is shown including the start date and time.

Last run backup	Date	Status	
Finance	20/01/2011 : 15:29:30	Successfully completed	
My Documents	20/01/2011 : 15:28:32	Successfully completed	
Sales	20/01/2011 : 15:28:21	Successfully completed	
My Videos	20/01/2011 : 15:24:34	Successfully completed	
🔘 Data	20/01/2011 : 15:23:45	Successfully completed	





# 8. Backup

# 8.1 Manage backup tasks

By clicking on 'Backup' in the Navigation Panel, you can manage your backup tasks. By selecting a task in the task list, you can examine its specifications. You can manually run, edit or delete the task. It is also possible to create new tasks.



Figure 23: Backup

# 8.2 Creating a backup task

To create a backup task, click on 'New task' below the task list in the Backup view. 'Task Properties' will pop up; it allows you to configure the task. If you cancel Task Properties, the task will not be saved.

Read more about how to configure a task with Task Properties in paragraph 8.3.

# 8.3 Task Properties

Task Properties appears when creating a new task, or editing an existing task. It allows you to configure the settings of the task. Task Properties contains 5 tabs:

- General: Task Name, Description and Backup Type
- Data: Select data resources for backup
- Schedule: Time and Frequency, Retention
- Filter: Exclude files and folders from backup
- Advanced: Volume Shadow Copy, Pre- and Post-Scripts

## 8.3.1 General tab

The 'General' tab allows you to set the general options of the backup task.

## Name and Description

It is advised to give the backup task a descriptive name to increase the recognition of the task when monitoring. Optionally you can enter a task description.



#### Checkboxes

#### Active

When checked, the task is activated and will be performed by schedule.

#### Shutdown Computer when completed

When checked, your system will shut down automatically after completion of the backup task. This option has been disabled on servers. Also, the client has to be running for this option to be effective. If the client is closed the computer will not shutdown, to prevent unexpected shutdowns. In case a shutdown is desired even if the client is not running, you can add the following post script in the backup task: *Shutdown -s -t 600* 

🥜 General 🛛 🛒 Data	Schedule	Tilter	🔅 Advanced	
Name:	Def	ault Task		
Description:				
		-		
	<b>V</b> /	Active		
	□ <sup>_</sup>	ihutdown cor	mputer when com	pleted
Backup type	٩	Online backu	p	
	0	Offline backu	ip (local backup)	



## Backup Type

By default, the Online Backup Client makes backups online (to an external Backup Server, over the Internet). It is also possible to make a local backup, e.g. to a removable hard disk. This results in a self-extractable ZIP file which can be shipped to your Online Backup Provider. The Online Backup Provider can include the data in your backup account.

By selecting the 'Offline backup (local backup)' radio button, a default local backup directory is displayed in the 'Location' textbox. It is possible to change this location by browsing to an additional directory. When you enable Compression, the result will be put in a zip archive. This can take a while to complete. If you leave this option disabled, compression on the individual files will still be applied. An offline backup will always be a full backup.

## 8.3.2 Data tab

The 'Data' tab allows you to select data to backup within the task. You can easily navigate through your system with the Windows Explorer-like tree at the left. Data can be selected by checking the boxes in front of the files and folders.

When a folder is selected for backup, underlying files and folders are automatically included in the selection, unless explicitly deselected.

G O 🗊 🗈	Number of files:	0	Size: 0 B	
	Name	Size	Туре	Created
Bas Paaroexcoper - B     Gomputer     Computer     Local Disk (C:)     D	E (Lincola (C)) ⇒ (DO Dne (D) ⇒ (DO Chone (D)) ⇒ (D)) ⇒ (D) (D) (D) (D) (D) (D) (D)) ⇒ (D)		Local Disk CD Drive CD Drive CD Drive Network Drive Network Drive	7/14/2000 46:075440 1/1/2001 12:06:00 AM 1/1/2001 12:06:00 AM 3/25:2000 22:054 FP 9/1/2010 9:21:55 AM
C III Format-1 AR-ain				

Figure 25: Select backup data



**Note**: If a folder is checked with a grey background only a subset of this folder is part of the backup set.

**Note**: A light grey square in front of a file or folder means that it is not possible adopt that item in the backup set

## Map network drives

You can map additional network drives, by clicking on 'Map Drive'. A drive letter will be added to the data tree, which can be selected for backup.

## 8.3.3 Schedule

You can set a schedule for the backup task in the 'Schedule' tab. A task can be scheduled by setting a start time and frequency.

By default, the schedule is set to a daily backup at the time the task originally is created.

in a state of the	
General 🔠 Data	Schedule 🍸 Filter 🥥 Advanced
Schedule backup task	
Perform this task:	Daily 👻
Hour:	16:12 (2) Add
Scheduled runs:	4:12PM
Set Retention Default Automatically r	more stricted backup data: $\bullet ]$ of der than $[0]$ . (c) $d\pi_{1}(s)$
	envez adected balles date at 0 der then

#### Figure 26: Set a schedule

The following frequencies can be set:

- Once: Task is performed once
- Daily: Task is performed daily
- *Weekly*: Task is performed one or multiple days a week
- *Monthly*: Task is performed once a month

## 8.3.4 Set Retention

Retention allows you to set the number of days your backup data will be kept before it is removed. Data will be removed after set number of days in the following situations:

• If an existing full backup is replaced by a new full backup Example: A full backup takes place when data is backed up for the first time, or when the difference in data is more than 66%. If a new full backup is made, the old full backup will be automatically removed after the set number of days.



- If the task is no longer active for that period of time Example: If you set retention to 7 days and stop the OnlineBackupService or shut down your computer for that period of time, the backup data will be automatically removed. The retention time will only become active the second time you run the backup task.
- If the data is no longer located at the original location *Example: If you made a backup of certain folder and you remove, rename or replace that folder on your computer, the backup of the folder will be deleted after set number of days.*

You can also choose to set the retention of the selected backup data to permanent (0 days), in which case all backups of the data will be kept.

If you want to change the retention value of the current files on the storage and the current value is higher than what you want to set it to, you need to change the retention via the 'alter retention' option in the restore view (see chapter 9.2.2). Remember that a retention value of zero days (permanent) counts as the highest value.

**Note**: The retention value is changed for all files in the task, no matter whether they still exist on the user's computer or not.

## 8.3.5 Filter

The 'Filter' tab offers the possibility to exclude files and folders from the backup set. You can also choose to include hidden files by checking the checkbox.

lidden files and folders		
Include hidden files		
liter (Does not apply to SQL, Exchange, MAPI and	system state resources)	
No file filtering     Except specific files and folders		
Exclude paths containing Trep	Add Folder	
Exclude paths containing Temp Exclude paths containing Temporary Internet Files Exclude paths containing Office Recent	Add File Types	
Exclude paths containing Macromedia/Flash Player Exclude paths containing Common Files/Java	Add Path Pattern	
Exclude files containing ".ost Exclude files containing lptgvpn."	- Remove	
Exclude all but specific files		
	Add File Types	
	Remove	



## Filter options:

- No file filtering (default)
- Filter out files on file name/extension ('Except specific files and folders')
- Filter out all files except with certain file name/extension ('Exclude all but specific files')
- Filter out folders by path pattern (e.g. Temp, Cookies, etc).

**Note:** To specify a filter, regular search expressions can be inserted:



# 8.3.6 Advanced tab

## **Enable Volume Shadow Copy**

When checked, the task will backup files that are in use (open files).

## **Pre-Script**

A Pre-Script is an advanced option to run certain operations before starting the backup task. You can simply browse a command or batch file (e.g. C:\scripts\command.bat) which will be executed prior to the start of the backup task.

## **Continue if Pre-Script fails**

the foreground	
Pre-Script:	Browse
Post-Script:	go consider a Pressings sans
	Enable Volume Shadow Copy
Exchange Adv	anced Options
7 Truncate th	e transaction logs after a full backup
Enforce Full Ex	change Store/SQL Backup
	Backup Client decide
Let Online	
Always	

When checked, the backup will be performed, even if the pre-script did not run properly.

Figure 28: Advanced options view

## **Post-Script**

A Post-Script is an advanced option to run certain operations after a backup task has run. You can simply browse a command or batch file (e.g. C:\scripts\command.bat) which will be executed after the backup task is completed.

Note: The options for Exchange are explained in paragraph 15.2



# 8.4 Monitor backup progress

The backup process can be monitored by clicking on 'Details' on the bottom of the application. The 'Details' bar is only shown during a backup process.

S. Newigation	Seckup	
😙 Home		
🔮 Backup	Summary of: Backap "Data"	
Nestore	New task Stort task Edit Task Delete task	8
Reports and Logs		
Coptions	Details	
C Support	Performing Backup Task: Backup "Data"	
About	Processing resource C:\Data	
About		
About	Processing resource C:\Data	
About	Processing resource C:\Data File progress 0 %	%De
About	Processing resource C(bits           File progress         0 %           Total progress         37 %           Price         0         4.00 wer           File         0         0         4.00 H	
	Processing resource Cl/Data           Reprepress         0 %           Tail progress         57 %           Infl         Path         Initial           Plan         Path         Initial           Plan         Path         Initial           Plan         0         4         0           Plan         0         2         0         2	
About     Account Information     bss.pardekoopr	Processing resource CL[bits           Tetal progress         0.%           Tetal progress         5.7%           Processing         5.7%           Processing         5.0%           Processing         0.0           Processing         0.0           Processing         0.0           Processing         0.0           Processing         0.0           Processing         0.0	
Account Information	Processing resource CL()bits         File         Processing resource CL()bits           File progress         5.7%         -	

Figure 29: Details during a backup

## 8.4.1 Details screen

## **Progress bars**

- *File progress*: The progress of the backup of the indicated file
- *Total progress*: The progress of the total backup task

#### Details table (shown on click 'Details>>')

0	Full:	Full backed up files
0	Patch:	Patched backed up files (incremental backup patch over last backup)
0	NoNeed:	Unchanged files (unchanged compared to last backup)
0	Skipped:	Skipped files (details in the logs)
0	Done:	The total amount of processed data
0	Total:	The total amount of selected data
0	%Done:	The percentage of processed data

## Other information

- Avg.upl.speed: The average upload speed
- *Remaining time*: The estimated remaining time
- Elapsed time: The elapsed time
- Compression: The average compression rate of the backed up data
- Size uploaded: The size of the uploaded data
- Total size: The total size of the selected data



# 9. Restore

# 9.1 View stored data

Your remotely stored data can be accessed by clicking 'Restore' in the Navigation Panel. The 'Restore' view allows you to restore this remote data to your computer.

The Windows Explorer-like view shows one or more computers, because the data is related to the source computer. When you open a computer node, you will notice that all data kept the same structure as it was on your computer.



Figure 30: Restore

# 9.2 Restore data

Data can be restored per file, folder or drive. Select files, folders or drives you want to restore in the Restore view. By clicking on the 'Restore' button, the 'Restore Options' screen will pop up and allows you to select a version and a restore location. Read paragraph 9.3 for more information.

## 9.2.1 Import local backup

Within the Restore view it is possible to import your local backups. This allows you to restore data from e.g. a local hard disk to your computer. This data can be created by yourself (local backup), or delivered by your Online Backup Provider, for fast restoring purposes.

Select 'Import local backup' in the Restore view, and choose for 'archive' if the data was compressed into a ZIP file or choose 'folder' if the data was uncompressed (besides the standard compression that takes place). Keep in mind that you need to select the root folder of the folder structure you want to restore. Once the local backup is loaded in the tree of the Restore view, you can restore the data in the same way as your remote data.



Figure 31: Select 'local backup file' for restore



# 9.2.2 Alter Retention

Within the Restore view it is also possible to alter the retention per file, per folder or per computer for data on the storage. Note that altering retention will count for all subfolders, files and versions within those folders.

# 9.3 Restore Options

## 9.3.1 Version

The client can store multiple versions of files. This gives you the opportunity to choose which of these versions you want to restore.

## Latest version

To restore the latest version, keep the version setting unchanged. This means that the 'Latest version' radio button is selected.

## **Restore at date**

It is possible to restore a file or folder at a selected date in history. Select the 'Older versions' radio button. Now you can select a date in history. The latest backed up versions of the selected files or folder before that date will be restored (if that backup version exists).

_	Restore	
<ul> <li>Nicrist</li> <li>Home</li> <li>Backup</li> <li>Restore</li> <li>Reports</li> <li>Option</li> </ul>	© Specific version 4 november 2010 → Manual ma di wo do vr za zo	Duplicate Files Overwrite Remane Skip Aak me
C Suppor		Bowse
Accour	Calculate restore size before downloading (enables time indication)     Apply scripts	OK Cancel

Figure 32: Easy date selection

## **Restore specific version**

A specific version of a stored file can be selected. To do so, select the 'Specific version' radio button.

The available versions of the file will be displayed in the dropdown box. Simply select the favored version.

This option only works for individual files and not for folders.



Figure 33: All file versions



## 9.3.2 Location

The location is where the files will be restored.

## **Default location**

The Default location is predefined. The default location can be changed in the Options view (see paragraph 11.7).

## **Original location**

When 'Original location' is selected, the files will be restored to their original location on your computer.

## Selected location

If you want to browse a location, choose this option.

## **Duplicate Files**

When duplicate files are detected on the chosen location, it will by default prompt to ask if you want to overwrite, rename or skip the file(s). You can also change the setting so it will automatically perform one of these options.

## 9.3.3 Calculate restore size

You can choose to calculate the restore size. Enabling this option allows the Online Backup Client to give an estimation of the restore time remaining. Skipping this calculation saves time.

## 9.3.4 Apply Scripts

When clicking 'Apply scripts', a popup will show that allows you to use Pre- and Post-scripts. For more information on these scripts, read the paragraphs 'Pre-script' and 'Post-script' in paragraph 8.3.5.

# 9.4 Deleting stored data

First select the data that needs to be deleted (you can select multiple files or folders). Click on 'Delete' in the lower main panel to delete the file(s) or folder(s). You can also choose for a specific version of a file to be deleted. Furthermore you can choose to keep the latest version of the selected data.

<ul> <li>All versions</li> </ul>		
O Delete all versions before:	dinsdag 21 december 2010	~
O Specific version	1 (Modified: 04/11/2010 15:32:49)	~
Keep latest version		

Figure 34: Confirm delete action



**Note**: When deleting a folder containing many files, the details windows will show the progress of the deletion. It can take some time to delete all files.

# 9.5 Monitor restore process

The restore process can be monitored by clicking on 'Details' on the bottom of the application during the process of a restore.

	Acstore							
Home	00 🛊 2 🖓 inp	ort local bac	kup - A	lter Retenti	on			
Backup	Folders	Nam			Size	Retention		
Restore	🖃 🍯 My Computers	: 🗐	Data irrelevan	t1.0.docx	521 KB	Permaner	nt	
Reports and Logs	e 11	> (						+
Options					Restore		Delete	
<b>A</b> 1								
	Details							
	Determining total restore s	ize						
	Determining total restore s Decompressing_	ize						
	Determining total restore s	áze 100 %						
	Determining total restore s Decompressing_							
	Determining total restore s Decompressing_ File progress	100 %	0	Tiles Skip	iped:			
Abovt	Determining total restore s Decompressing File progress Total progress Files Restored:	100 %			iped: ipped (MB):			
About	Determining total restore s Decompressing File progress Total progress Files Restored:	100 %	0	Bytes Sk				
About About Account Information bas.psardekcoper	Determining total restore s Decompressing File progress Total progress Files Restored: Bytes Restored (HB):	100 % 98 %	0	Bytes Sk	ipped (MB): mber of files			
About Account Information bas.paardekooper	Determining total restore s Decompressing File progress Total progress Files Restored: Bytes Restored (MB): Dytes Received (MD): Download Speed:	100 % 98 %	0 < 1 595,3 Kbps ,9KByte/s)	Bytes Sk Total nur	ipped (MB): mber of files sion:			515.59

Figure 35: Restoring Data

## **Progress information**

- File progress:
- Total progress:
- Files Restored:
- Files Skipped:
- Bytes Restored (MB):
- Bytes Skipped (MB):
- Bytes Received (MB):
- Download speed:
- Remaining time:
- Elapsed time:
- Compression:
- Size downloaded:
- Total size of restore:

- The progress of the restore of the indicated file
- The total progress of the restore
- The number of files that have been restored
- The number of files that have been skipped
- The amount of restored files in Megabytes
- The amount of skipped files in Megabytes
- The amount of received files in Megabytes
- The average download speed
  - The estimated time remaining
- The elapsed time
- The average compression rate of the backed up data
- The size of the downloaded data
- The total size of the selected data



# 10. Reports and Logs

# 10.1 Reports

The "Reports"-view shows a history of reports. You can view the status of past backups and restores.

Details of a report can be viewed by selecting the report and clicking on 'View' or by double-clicking the report. This report will also be sent to you by e-mail after a task is completed.

	Reports and L					
Sy Home	· Reports	Loos				
Sectup						
	Task	Туре	Date	Time	Status	- 2
Nestore	•	Restore report	11/11/2010	4:45 PM	Successfully completed	
Reports and Logs	<ul> <li>Backup "Data"</li> </ul>	Badiup report	11/11/2010	4:21 PM	Successfully completed	
· ····································	<ul> <li>Backup Data</li> </ul>		11/11/2010	3150 PM	Successfully completed	
Options	<ul> <li>Badup "Data"</li> </ul>	Badup report	11/10/2010	12:12 PM	Successfully completed	
	<ul> <li>Badup data</li> </ul>		11/10/2010	12:05 PM	Cancelled by user	- 8
C Support	<ul> <li>Backup "Data"</li> </ul>	Backup report	11/4/2010	1:36 PM	Successfully completed	
-	<ul> <li>Backup "Data"</li> </ul>	Backup report	11/4/2010	1:34 PM	Cancelled by user	
About	<ul> <li>Backup "Data"</li> </ul>	Sadsup report	11/4/2010	11:47 AM	Successfully completed	
	•	Restore report	11/4/2010	10:39 AM	Successfully completed	
	<ul> <li>Backup data</li> </ul>		11/4/2010	10:30 AM	Successfully completed	
	<ul> <li>Beckup data (2)</li> </ul>		11/4/2010	9:17 AM	Successfully completed	
	<ul> <li>Backup "Data"</li> </ul>	Backup report	11/1/2010	10:26 AM	Successfully completed	
	<ul> <li>Backup "Data"</li> </ul>	Backup report	11/1/2010	10:24 AM	Faled	
	<ul> <li>Backup "data"</li> </ul>	Backup report	11/1/2010	10:04 AM	Successfully completed	
Account Information	<ul> <li>Backup "data"</li> </ul>	Badiup report	11/1/2010	9:54 AM	Successfully completed	
	<ul> <li>Backup "data"</li> </ul>	Badiup report	11/1/2010	9:53 AM	Faled	
88 bas.paardekooper	<ul> <li>Backup "data"</li> </ul>	Backup report	11/1/2010	9148 AM	Faled	
2 10 65	@ Backup "data"	Badup report	11/1/2010	0:30 AM	Faled	
	<ul> <li>offine (ocal</li> </ul>		11/1/2010	9:38 AM	Failed	
Online	. 44 Affline Revial	Radium.recovet	11/1/2010	0-34 AM	Falad	2
Usage: 7.35 MB (0%)	View				Delete pe	lection.

Figure 36: Report view

# 10.2 Logs

The 'Logs' view shows a history of log files. Three types of events can occur:

- Information
   This is information on the progress of the backup or restore procedure
- Warning
   Non fatal errors occurred during the backup or restore process.
- Error

A fatal error has occurred in the Online Backup Client.



Figure 37: Log view

Details of a log message can be viewed by selecting the specific log message and clicking on 'View' or by doubleclicking on the log. This shows a dialog with detailed information of the message.

In some cases it is possible to get a more detailed view of the log file by clicking on 'Details >>'.



Figure 38: Log Event Details



# 10.3 Cleaning Reports and Logs

In a few steps it is possible to clean the reports or logs list. In the list of reports or logs, you can make a selection (using ctrl and shift). To clear the list, click on 'Delete Selection'.

You can also choose to send a notification report of this log to the provider. An e-mail will be send to the provider containing this log file.

. Nangation	Reports and Logs
S Home	W Reports Logs
Backup	V reports Logs
Restore	Type Date Time Message
	Error 11/11/2010 4:21 PM Cannot update retention value for files on server     Error 11/11/2010 4:20 PM Cannot update retention value for files on server
Reports and Logs	Children and Child
< Options	Online Backup Client
C Support	for files on server
About	Are you sure you want to delete the selected item(s)? for files on server
C About	for files on server
	off: 2000,0 w
	Yes No for files on server
	for files on server
	Gerror 11/1/2010 10:25 AM Cannot update retention value for files on server
Account Information	Information 11/1/2010 10:24 AM Encryption Key does not match the key that w
	A Warning 11/1/2010 10:24 AM Backup failed of task 'Backup 'Data'' Encrypte
bas.paardekooper	GError 11/1/2010 10:04 AM Cannot update retention value for files on server
20 10 68	Sector 11/1/2010 30:03 AM Cannot update retention value for files on server
Online	Gerror 11/1/2010 9:54 AM Cannot update retention value for Res on server Warming 11/1/2010 9:53 AM Barloss Failed of task * Obsert reference not a

Figure 39: Deleting Reports and logs



# 11. Options

You can change program and process settings in the Options view, which can be accessed through the 'Options' button in the Navigation Panel. The Options view contains the following tabs:

- General
- Backup and Restore
- Advanced
- Exchange Server
- SQL Server

# 11.1 General tab

In the General tab, you can set general options of the Online Backup Client. Self-explaining checkboxes can be used to configure the program settings. Next to that you can set the **language** of the Online Backup Client. You can also change your password of your backup account.

**Note**: It might not be possible to change your password in the Online Backup client, since your Online Backup Provider can disable this option.

# 11.2 Backup and Restore tab

In the Backup and Restore tab, you can set options that are specific for backing up and restoring with the Online Backup Client.



Figure 40: Default restore directory

Backup

## Start backup of missed task

When this setting is enabled, the missed tasks will automatically start the next time the service of the Online Backup Client is started.

## Request confirmation when starting a missed task



When this option is enabled you get a pop up box where you can choose to start the missed backup task(s).

## **Compression Settings**

You can add file extensions that should never be compressed during backup. You can add multiple extensions separated with commas.

Minimum file size (bytes): Smaller files will not be compressed

Maximum file size (bytes): Larger files will not be compressed. (0 = no maximum file size)

## **Data Retention**

The default setting is set to 'Automatically remove backup data' with a value of 30 days. You can change the value of days or you can set data retention to 'Never remove backup data'. The default setting will apply for every new task which is created henceforward.

## Restoring

The textbox contains the default restore location. This is the folder where data is restored by default when you don't choose a specified folder.

# 11.3 Advanced tab

#### Advanced

## **Backup- and restore-privileges**

This overrules access rights for administrators for backup purposes.

## Add Backup/Restore reports to windows logs

Used to track errors in the backup or restore processes.

## Enable the diagnostics

Diagnostics is a logging system for error tracking.



## Figure 41: The advanced tab

## Advanced Encryption type

Encryption of the data can be encrypted with AES 128 bits or 256 bits encryption. Where the AES 128 Bits encryption is faster, AES 256 bits encryption is more secure.



## **Temporary folder**

You can select the folder where temporary files are stored before they are transferred to the Backup Server.

**Note**: Make sure there is enough disk space available to store the largest file to upload.

**Note:** Make sure that this is an empty folder, because this folder is cleared after the backup.

## Connection

## Bandwidth usage

This allows you to adjust the upload speed in percentage (%) of the available bandwidth between the Online Backup Client and the Backup Server.



# 12. Support

Clicking on "Support" in the "Navigation" panel will give contact details of your Online Backup Provider.



Figure 42: Support contact information

# 13. About

Clicking on "About" in the "Navigation" panel will give details on the version of the software and the license of the software.

		(i) About	
9	Home		
9 1	Backup	Version:	4.0.1.3049 Professional Editori
•	Restore		
0	Reports and Logs	Automatic Backup:	On
8	Options	Status:	No new version available
e	Support	WADWING This same	outer program is protected by copyright law and international treaties. Unauthorized
0	About	duplication or distribution	use is yourn in program, or any protion of R, may result in severe divil or criminal sprosecuted to the maximum extent possible under the law.
28	Account Information	© 2003-2010 Backup#	Apent BV. All rights reserved.
-	bas.paardekooper	1	
0	10 GB		
۰ رې	Online		
~	Online Usage: 7.35 MB (0%)		

Figure 43: About Screen



# 14. Windows System State

# 14.1 System State backup

When creating or editing a backup task, you have the option to select and include System State as part of your backup data. Below the 'Data' tab, you will see a box for System State you can enable. After enabling System State, you will see an overview of the sections of System State that will be included in the backup.



Figure 44: System State backup

**Note**: Make sure to disable Volume Shadow Copy at the 'Advanced' tab when creating the backup task for System State.

# 14.2 System State restore

To restore System State, simply select it in the restore screen and click 'Restore'.

olders	Name	Size	Retention
● Hy Computers 	製AR 製COM+HECOB 製COM+HECOB 製COM+HECOB 製COM+HECOB 製Agatty 製Task5cheduler 製VSSMetadata Store 製Whit		30 days 30 days 30 days 30 days 30 days 30 days 30 days

Figure 45: System State backup

System state restore will be completed after restart. Do you want to restart?

When the restore of System State is finished, you will be asked to restart in order to complete the System State restore. If you choose 'No', the System State restore will be completed after the next time you restart your machine.



# 15. Microsoft Exchange 2003/2007/2010

# 15.1 Introduction

To support backup and restore of MS Exchange Server 2003, MS Exchange Server 2007 or MS Exchange Server 2010, the Online Backup Client has to be installed on the same machine as the server. The Online Backup Client supports Exchange backup in three ways:

- Through an ESE plug-in for Exchange 2003 mail store backup.
- Through an VSS plug-in for Exchange 2007 (and newer versions) mail store backup
- Through the **folder level backup** option (enables backup of separate mailboxes).

**Note**: ESE is the API of Exchange allowing backup applications to make a consistent and reliable backup.

**Note**: Folder Level backup is not available for Exchange 2010.

# 15.2 Backup on mail store level (ESE & VSS plug-in)

To enable backup of mail stores, this option must be activated first. This can be done by checking 'Activate Exchange backup' in the 'Exchange Server' tab in the 'Options' view. 
 Beneral
 Backup and Restore
 Advanced
 Exchange Server
 SQL Server

 Mailstore level
 Q
 Activate Exchange Backup
 Use Exchange restore Auto Completion

#### Figure 46: Activate ESE plug-in

Now the plug-in is activated, complete Servers, Storage Groups and single Stores can be selected for backup, in the Data tab in Task Properties.

Apart from the requirements listed below, performing a backup of an Exchange item is not different from doing backups of regular files and does not involve any further user actions.



## Figure 47: Exchange server in 'Data' tab

Note: 'Circular logging' on the Storage group must be disabled.



**Note**: A mail store that is requested to be backed up must be mounted in order to be accessed. Dismounted Stores may appear in the folder-pane but cannot be backed up.

For Exchange Store level backups, you can set advanced options in the 'Advanced' tab of the backup task. The following options can be set:

## Exchange Advanced Options

• **Truncate the transaction logs after a full backup**: This means that the log files will be truncated in the Exchange database when a full backup of the Exchange Store is enforced.

## Enforce Full Exchange store/SQL Backup

- **Let BackupAgent decide**: This means that if more than 66% of the dataset changed compared with the already backed up data, the client will enforce a full back up again.
- **Always**: This means the Online Backup Client will always enforces a full backup.
- **Never**: This means that there will never be a full back up again, other than the first backup.

## 15.2.1 Backup requirements

- MS Exchange Server must be installed and running on the local machine in order to perform backups.
- The user that performs a backup must be assigned backup and restore privileges.
- Circular logging must be disabled.

**Note**: The Online Backup Client performs full or incremental backups. However, since incremental backups require a continuous series of log files, it is not possible to use third party software when the Online Backup Client is used to schedule backups of Exchange. This also holds vice versa. Third party software can cause data loss, since some programs remove logs.

# 15.3 Restore on mail store level

Backups of mail stores are listed in the 'MS Exchange Server' folder in the 'Restore' view. This folder holds sub folders for every Exchange Server that has been backed up. The restore can be performed in the same way as a normal data restore. Read chapter 'Restore' for more details on restoring from the Restore view.

The complete restore procedure has been defined in a separate Whitepaper because this is a delegate task. You can download it from our support site:



http://support.backupagent.com/index.php?/Knowledgebase/Article/View/173/0/backupagentexchange-server-backup-and-restore-best-practice

# 15.4 Backup on folder level

The 'folder level backup' option is meant to backup separate mailboxes and its subfolders. This option offers an alternative to a full backup of MS Exchange 2003 and enables you to perform small restores of parts of the mail stores.

**Note**: Due to significant architectural difference between Exchange 2003 and Exchange 2007, there's no direct support for the Exchange 2007 folder level backup implemented in the Client in this release. However it is now possible to perform the Exchange 2007 folder level backup from a remote computer, if Exchange 2007 is installed onto a Windows 2003 Server 64 bit system. For more information, please follow this link:

http://support.backupagent.com/index.php?/Knowledgebase/Article/View/61/0/exchange-2007remote-folder-level-backup-requirements

To enable a folder level backup, the option 'Activate Exchange server backup on folder level' must be checked. This checkbox can be found on the 'Exchange Server' tab in the Options view.

General	Backup and Restore	Advanced	Exchange Server	SQL Server	
Mailstor	re level				
🗹 Act	ivate Exchange Backup				
	Use Exchange restore	Auto Complet	ion		
Folder le	evel				

Figure 48: Activate Exchange Server on Folder Level

When folder level backup is activated a new 'MS Exchange (folder level)' node is added to the selection tree of the Data tab in Task Properties. This node can be expanded and allows you to browse through and select all mail stores, mailboxes and subfolders. Selected items will be added to the backup task.

Folders	Name	Туре
🖃 🗌 🞯 Desktop	🗖 🗟 BackupAgent	Mailbox
H     H     H     H     S     H     H     S     H     S     H     H     S     H	🗖 🗟 Bugs Bunny	Mailbox
🗄 🗔 😼 My Computer	Elmer Fudd	Mailbox
My Network Places	🗖 🗟 Koen D'Hondt	Mailbox
🗄 🗖 👷 Favorites	D Broot	Mailbox
- 🔲 🌉 System State		
🖻 - 🗌 🎭 MS Exchange (folder level)		
🖻 - 🔲 📒 BACKUPAG-SBB8XO		
😐 🗌 🜈 Malbox Store (BACKUPAG-SBBBXC	5	
	11	

Figure 49: Overview of mailboxes in data selection dialog

**Note**: For ease of use and overview it is recommended to create a separate task for Exchange folder level backup. Do not mix this data with files to prevent confusion.



You are now ready to backup Exchange mailboxes. A backup of mailboxes works similar to the backup of files and folders. Next to that, Additional metadata concerning mailbox properties and settings are also uploaded.

**Note**: Please make sure that the temp-folder of the Online Backup Client is set to a path with enough available temporary disk space, since folder level backup can require a comprehensive amount.

# 15.4.1 Backup Requirements

## Additional requirements

- MS Exchange 2003 Service pack 2 must be installed
- Windows 2003 must be installed
- Hot fix KB908072 for Exchange 2003 must be installed:

<u>http://support.backupagent.com/index.php?/Knowledgebase/Article/View/82/0/error-hotfix-for-</u> <u>microsoft-exchange-server-2003-kb908072-is-not-properly-installed</u>

## Security settings

- The 'SystemMailbox'-user must not be hidden from the Exchange address list
- The local and/or domain administrator must have 'receive as' and 'send as' permission to the mail store(s).

How-to: Un-hide SystemMailbox-user

- 1. Start the Active Directory management application
- 2. On the parent node for all users, right-click and choose 'Find users...'
- In the 'Find Users'-dialog, type 'SystemMailbox' in the 'Name' field and click 'Find...':
- 4. Select the user and open its properties



Figure 50: Find SystemMailbox



- 5. On the properties, click on the 'Exchange Advanced' tab
- Make sure the 'Hide from Exchange address list' checkbox is unchecked
- 7. Click OK and close the application
- 8. (Re)start the Online Backup Client

5ystemMailbox{490E	9569-F231	-4789-AD	94A-52A78	7219B86} <mark>?</mark> 🗙
Member Of Dial-in	n Enviro	onment	Sessions	Remote control
Terminal Services F	Profile	COM+	Exc	hange General
General Address	Account	Profile	Telephone	es   Organization
E-mail Addresses	Exchang	; ge Features	Excl	nange Advanced
Simple display name:				
Hide from Exchan	ge address li	ists		
🔲 Downgrade high p	priority mail b	bund for $\underline{\times}$ .	400	
V Construction of the order of the second				1

Figure 51: Exchange Advanced tab

How-to: Change permissions of the administrator

- 1. Start the MS Exchange System Manager
- 2. Browse to the mail store node in the tree
- 3. Right-click on the node and choose properties
- 4. In the Properties dialog, click on the Security-tab
- 5. On the Security-tab, click on the Advanced-button



Figure 52: Select Exchange Mailbox Store

- 6. In the 'permission entries' list, select the local and/or domain administrator and click 'Edit...'
- 7. In the Permission Entry dialog browse through the list of permissions
- 8. Check the 'receive as' checkbox permission in the 'allow' column
- 9. Check the 'send as ' checkbox permission in the 'allow' column
- 10. Click Ok and close the application
- 11. (Re)start the Online Backup Client



Figure 53: Set Receive As and Send As options

**Note**: If the Exchange Server is a Domain Controller, then the Domain Administrators must also have permission for 'Send As' and 'Receive As'.



Once mailboxes are backed up on the Backup Server, restoring is possible on any Exchange server. You can browse for mailbox items in the 'Restore' view. To restore, simply select one or more items and then click on 'Restore'.

🛄 Calendar	48 KB	1	
🚣 Contacts	32 KB	1	
🗟 Deleted Items	112 KB	1	
Drafts	32 KB	1	
Inbox 🔤	64 KB	1	
🚚 Journal	32 KB	1	
🐻 Junk E-mail	32 KB	1	
	Contacts Co		A Contacts 32 KB 1     O Deleted Items 112 KB 1     Drafts 32 KB 1     Iminox 64 KB 1     Journal 32 KB 1

Folder

Figure 54: Version overview

Now, the Restore Options screen pops up. When you select 'Original Location' in the 'Restore to MS Exchange Server' options, you will overwrite the current data in the folder in Exchange.

When choosing 'Create copy of item', an additional folder with a 'Copy of'-prefix (i.e. 'Copy of Inbox') will be created in the user's mailbox.

Version:	1 (Modified: 8/17/2008 10:09:08 AM)
Restore to MS Exchang	ge server
No, only restore the	hies
O Original location (ov	/erwirte item)
C Create 'copy of' iten	1
Location:	
G D ( h ( D ) D ) )	100312000
O Default (F:\Restore	3\08212008j

Figure 55: Select Restore location

**Caution**: Overwriting the items may cause data loss. It is strongly recommended to use this option only in case the original mailbox is empty or contains old data.

**Caution**: If you restore in 'Copy of item' mode, be aware that this copy might be part of next backup if the complete mailbox is selected for backup.

**Note**: For ease of use and overview it is recommended to create a separate task for Exchange folder level backup. Do not mix this data with files to prevent confusion.





# 15.6 Backup of Exchange using VSS

Finally Online Backup Client supports VSS and this can force Exchange to write a consistent backup copy of the .edb-file and the stm file to the shadow volume. Therefore selecting these files is a reliable way of making a daily full backup, which will be patched as a file by Online Backup Client to upload only the changes.

O O B R	Number of Hes: 0	Size: 0.8 Size	Type
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De Dechangelerver, 61-WHPD     De enchwel     De enchwel     De States	L = trop.edb	1,032.48	LUS Hie

Figure 56: Backup Exchange using VSS



# 16. Microsoft SQL Server 2005/2008/2012

# 16.1 Introduction

The Online Backup Client supports backup and restore of SQL Server 2005, 2008 and 2012. This option can be activated by selecting 'Activate SQL Server Backup' in the 'SQL-Server' tab in the Options view.

If there is more than one instance of SQL Server installed onto the computer running the Online Backup Client, you can choose to back up the data from all of them. It is required to enter the user credentials per instance.

۵.	Navigation	×	Options			
3	Home					
9	Beckup		General Backup and Resto	e Advanced	Exchange Server	SQL Server
•	Restore		SQL Server			
6	Reports and Logs		Activate SQL Server Backu	,		
×	Options		SQL Server locations	INSTANCES	Connection Settings	
e,	Support		All INSTANCE1	Use log	iged on user	
0	About		INSTANCE2	Database	user:	50
				Database	password:	******
				Ver	fy connection	
21	Account Information					
88	truser3					
0	50 GB					
0	Online					
3	Usage: 11.63 GB (23%)				_	Apply. Cancel

Figure 57: 'SQL Server' tab

# 16.2 Backup

When a connection to the SQL Server is established, the 'MS SQL Server' icon will be visible in the Folder pane of the 'Data' tab in the Task Properties. The databases are child-nodes.

Select databases to add them to the backup task, so they will be backed without any further user intervention.

International and the second sec	Nacher of Respublic August Statement	0 320 35.640 5.640 5.640 5.640 5.640 5.640 1.4406 1.4406 1.4406 5.640 5.640 5.640 6.5400 6.54000 6.54000 6.54000 6.5400000000000000000000	Ser. 08	
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Figure 58: Select SQL database

## 16.2.1 Backup requirements

- A connection to the SQL Server is created using Integrated Security or by a user provided username/password combination. In any case the Online Backup Client must be provided with sufficient rights to perform the SQL backup procedures.
- In order to create a backup of a database, the user that connects to the SQL Server must be assigned the sysadmin Server Role and the db\_backupoperator and dbo\_owner DB roles.

## 16.2.2 Further notes on backup procedures

• The Online Backup Client connects to the local MS SQL Server so only backups of local databases can be performed.



- The tempdb database cannot be backed up or restored. Do not select this database for backup.
- The Online Backup Client can perform 'full' and 'differential' backups on MSSQL Server. The backup method that will be used is chosen automatically.

# 16.3 Restore

Databases that are available for restore can be found in the 'MS SQL Server' folder in the 'Restore' view. This folder contains the 'SQL Server' folder, which contains the backed up databases. These databases can be selected for restore.



Figure 59: Select SQL database for restore

When the restore procedure is started you are asked for a destination folder of the database files. Please note that this location will be the location where MS SQL Server will mount the restored database. The default location that is used by MS SQL Server to store database files is C:\Program Files\Microsoft SQL Server\MSSQL\Data.

The Online Backup Client will try and download the database that is to be restored and insert it into the local instance of MS SQL Server. If a database with the same name already exists on the computer, it will be overwritten. You can choose to create a copy or to overwrite the original database.

Restore to SQL server (SERVERO	3) :
S No, only restore the files	
C Use original database name	
O Use new database name:	BackupAgent_copy
Location:	

Figure 60: Select restore location

## **Caution**: NEVER overwrite a database that is in production

## 16.3.1 Restore requirements

The Online Backup Client must be provided with correct permissions to perform the restore operation. According to Microsoft the user that connects to the Server must have the sysadmin and dbcreator Server roles and db\_owner DB role assigned to it. More information:



## http://msdn.microsoft.com/en-us/library/ms187048.aspx

A restore of the master database can only be performed when the Server is in single user mode. SQL Server can be started in single user mode from the command line using the -m command line option:

"\Program Files\Microsoft SQL Server\MSSQL\Binn\sqlservr" -m.

**Note**: The Online Backup Client connects to the local MS SQL Server so only restores into the local computer can be performed.



# 17. Hyper-V

# 17.1 Introduction

Hyper-V is a native hypervisor that enables platform virtualization on x86-64 systems. Through a plugin in the client it is possible to backup and recover virtual machines. This plugin is enabled by default. To be able to backup and restore a Hyper-V virtual machines, make sure the client is installed on a machine that runs the Hyper-V environment.

# 17.2 Hyper-V Backup

To make a backup of a Hyper-V environment it is simply a matter of choosing the virtual machine(s) you want to backup through the Data view.

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	<			_

Figure 61: Select Hyper-V environment for backup

# 17.3 Hyper-V Restore

To restore the Hyper-V environment you choose the Hyper-V virtual machine or hard disk you want to restore in the restore screen. Select the latest or a specific version in order to restore it to the original location. During restore the current Hyper-V virtual machine will be unavailable until the restore has finished mounting the image.



Figure 62: Select Hyper-V environment for restore