BackupAssist[™]v9

File Protection

User guide

backupassist.com



Contents

1.	Introduction	2
	Documentation	2
	Licensing	2
	Modes of operation	2
	Single-instance store	3
	Advantages of File Protection	3
2.	Backup considerations	4
	Exchange VM support	4
	Restore vs. Recovery	4
3.	BackupAssist settings	5
	Backup user identity	5
	Email server settings	5
	Email address list	5
	Network paths	5
4.	Creating a File Protection backup	6
5.	Restoring from a File Protection backup	10
6.	File Protection backup management	14
	Manually running a backup job	
	Destination: Enabling single-instance store	14
	Scheduling	15
	Files and applications	15
7.	File Protection backup report	16

1. Introduction



BackupAssist File Protection is a feature for administrators who want a powerful, yet simple, file backup solution out-ofthe-box. File Protection can be configured in minutes to create scheduled backup jobs without the need for complex scripts or settings.

File Protection backups replicate data to backup media and can take advantage of technologies such as *data encryption, backup-with-history replication* and *single-instance store*. File Protection can be used with other BackupAssist technologies, such as System Protection and RecoverAssist, for a complete data protection and data recovery solution.

Documentation

This user guide provides a comprehensive guide to BackupAssist File Protection and can be used in conjunction with other BackupAssist guides.

- For information on backing up files over the internet see the File Protection with Rsync user guide
- For information on the BackupAssist Backup tab, see the Backup Tab user guide.
- For information on the BackupAssist Restore tab, see the Restore Tab user guide
- For information on the Settings Recover tab, see the Settings Tab user guide

Licensing

File Protection is a standard feature included with the BackupAssist license. To back up data across the internet with Rsync requires the *Offsite Backups Add-on* license, once the initial trial period has expired. Please contact your local BackupAssist reseller or distributor for pricing information, or visit www.BackupAssist.com.

For instructions on how to activate / deactivate license keys, visit our Licensing BackupAssist page.

Modes of operation

File Protection offers two modes of operation: mirror and backup-with-history. For backups to removable media, the mode can be selected at the *Set up Destination* step when a backup job is created. For other media types, the mode is defined by the *schedule* selected in the *schedule* step.

Mirror mode

The Mirror mode creates an exact replica of your files and folders (as the data appeared at the time of the backup). Only one backup will be stored at any one time, with no history available. This mode is useful for situations where a primary drive or a server needs to be replaced quickly.

Backup-with-history mode

The *Backup-with-history* mode creates a new set of backup data in a uniquely named folder each time a backup job runs. Backups created using this mode are useful for maintaining version history over a long period of time. For backup jobs to disk-based destinations, you can even configure backup storage options to make sure that disk space on the backup destination is properly utilized.

Single-instance store

BackupAssist's File Protection includes a powerful replication technology called single-instance store. With single-instance store enabled, only one unique copy of each file is stored on your backup device. Single-instance store backups are similar to incremental backups, because only new or modified files are actually copied to your backup device each time a backup runs. This saves time and disk space.

The single-instance store process is completely transparent. If no previous backup exists on the backup device, BackupAssist will perform a full backup of the selected data. For subsequent backups, only new or modified files will be backed up, but a new and complete backup set will appear on your backup device. This backup takes no more space than the new and modified files that were copied there.

If you view the backup destination, it will look as if a full backup was performed – refer to the backup report to confirm if a single-instance store is working correctly.

Important: File Protection backups cannot use single-instance store when the backup is saved on a ReFS formatted destination. This means all of the data will be backed up each time the backup job runs.

Advantages of File Protection

This section looks at the advantages of File Protection over traditional file replication methods.

No scripting required: Easily set up basic mirroring backups for important files, or comprehensive archival backups with hundreds of days of backup history to restore from.

Fully automated scheduling: Backup jobs are automated with BackupAssist's one-click scheduler. The scheduler provides a selection of pre-configured, customizable backup schemes to choose from.

Fully automated monitoring: You will receive an automated email report after each backup job to inform you of the backup's success or failure.

Multiple restore points: Create a series of mirror backups on your backup device, one for each day. To restore, simply copy the files back to the relevant folder or use the Integrated Restore Console.

Volume Shadow Copy Service support: BackupAssist is a VSS-aware application, so File Protection backups can detect VSS applications such as Exchange, SQL, Hyper-V and SharePoint.

Preserve certain NTFS attributes: A File Protection backup is able to preserve certain NTFS file attributes, set on the original source files. If you want to maintain NTFS file attributes we recommend you choose a backup destination formatted in NTFS. Preservation of NTFS attributes is enabled by default on destinations that support it.

File attributes at destination	Preserved?
Windows File Attributes	\checkmark
Creation time	\checkmark
Last modified time	✓
NTFS security (ACLs)	√*
NTFS alternate data streams (ADSs)	√*

* Excludes Linux destinations

2. Backup considerations



Before creating a backup job, it is important to understand what backup and restore options are available. This section provides guidance on some key considerations.

Exchange VM support

When backing up a Hyper-V guest with an Exchange Server, enter the authentication information for that guest into the **Exchange VM Detection** tab on the **Selection** screen when you create the job. With these credentials, BackupAssist can detect what guests have an Exchange Server, and list the EDB file available for each guest when you perform a restore using the Exchange Granular Restore console.

Backup	36U				Help	?
	🛛 Home 🌘	+ New 📄 🗏 Manag	je 🖾 Monitor	n Reports		
2		ection Wizard What do you want to	back up?			
Backup	Selections	Files and Applications	Exchange VM Detection			0
	Displication investor	Authentication account fo	r Hyper-V guests running Exd	hange		
	Schödum Set als destination.	information for the guest sho what guests have an Exchan	Hyper-V guest with an Exchange S old be entered below. With these o ge Server, and lat the EDB files ava schange Granular Restore concole.	redentials, BackupAssist can detect		
Perior	Mail server.	Usemaner				
		Password: This	password should never expire.			
	Prepare module	Domain:		1.er		
Recover	Narba yoʻn Kathlab (Test			

Figure 1: Selection screen - for an Exchange Server on a Hyper-V guest

The Exchange VM Detection tab appears when the Hyper-V role is installed and running on the server. If you back up multiple guests, each one should have the same username and password. The Hyper-V process is automated but the restore requires both the *Exchange Granular Add-on* and the *Hyper-V Advanced Add-on* licenses.

Restore vs. Recovery

A restore is the process of accessing a backup and restoring it to the original (or a new) location, if your data is lost, corrupted or if you want an earlier version of that data. However, if your computer cannot start itself, you may need to perform a recovery.

A recovery is the process by which a computer is recovered after hardware has been replaced or an operating system failure has occurred, and your computer can no longer start itself. To perform a recovery you need a bootable media to start your computer, and an image backup that the bootable media can use to recover your operating system, data and applications.

For more information on data recovery, see the System Recovery guide

4

3. BackupAssist settings



When creating a backup job, there are some global settings that should be configured in BackupAssist. If they are not configured, you will be prompted to complete them during the creation of your first backup. It is recommended that this is done in advance.

BackupAssist's settings can be entered and modified using the selections available in the **Settings tab**. Clicking on the *Settings tab* will display the selections as icons. Four of these are used when creating new a backup job and each one is described below:

Backup user identity

Backup jobs require an administrator account with read access to the data source, and full read-write access to the backup's destination. It is recommended that a dedicated backup account is created for this purpose. The account's details are entered here and your backup jobs will be launched using these credentials. The account's permissions will be validated both when the backup user identity is entered and when the job is executed. If no account is specified or the account has insufficient permissions, the backup job will fail and note the error in the backup report.

A video explaining the creation of a backup user identity can be found on our, Videos Webpage.

Email server settings

This menu item is used to enter the details of the SMTP server used by BackupAssist to send email notifications. The SMTP server must be configured if you want to have an email *Notifications* step enabled when you create a backup job.

Email address list

This menu item is used to define and store the email addresses of potential notification recipients. The list will be used to populate the recipient selection screen when configuring an email notification for a backup job. Any email addresses entered during the creation of a new notification are automatically added to the *Email address list*.

Network paths

This option allows you to enter access credentials for networks, domains and drives that the default account (specified in the *Backup user identity*) does not have access to. Enter or browse to the location and add it to the *Path list*. The *Edit* option will allow you to enter an authentication account, specifically for that path. When you create a backup job to a remote location, that location will be automatically added here.

Having multiple connections to a resource using the same logon credentials can generate a Windows error, such as the <u>BA260 NAS error</u>. It is therefore recommended that you avoid having mapped shares on the computer running BackupAssist that are the same as the paths configured in BackupAssist.

4. Creating a File Protection backup



The following instructions describe how to create a backup job using BackupAssist File Protection.

Launch BackupAssist and follow the steps outlined below:

- 1. Select the Backup tab, and click Create a new backup Job
- 2. Select File Protection

If this is the first time you have created a backup job, you will be asked to provide a *Backup user identity*. See the section above, <u>BackupAssist settings</u>, for guidance.

3. Selections

The selections screen is used to select the data and applications that you would like to back up. Any VSS applications detected will be displayed here as application directory containers.

An Exchange VM Detection tab will be available if you are backing up an Exchange VM guest.

Select the volumes, folders, files and applications that you want to back up, and click Next.

4. Destination media

The destination screen is used to select the type of media that you want to back your data up to. This step's name will change to the media type selected, when you click next.



Figure 2: File Protection backup – Destination media selection screen

- a. Select a device for your backup destination.
- b. Select an encryption type if you want to encrypt your backup.

BitLocker encryption is available on Windows Server with External disk or RDX drive destinations. BitLocker will encrypt the destination media. To learn more, see our <u>BitLocker resource page</u>.

c. Click Next.

To back up to an Rsync destination, refer to the File Protection using Rsync guide.

5. Schedule

This screen is used to select when and how you would like the backup job to run, and how long you would like the backup to be retained for. A selection of pre-configured schedules, called schemes, will be displayed.

- The schemes available will depend on the type of destination media selected in step 4.
- Clicking on a scheme will display information about the schedule used.

Select an appropriate scheme, and click Next.

For detailed information on scheduling options and customizations, see the Backup tab user guide.

6. Set up destination

This screen is used to configure the location of the media selected in step 4.

The options presented will change with the type of media selected.

If you are using a *Local media & Local network* destination, a *Check destination* button will be available to check your backup destination for possible problems. After the checks have been completed, the results can be viewed by selecting the *Report* link. If you are using *Removable media* destinations, these checks are performed when you select *Prepare* on the *Prepare Media* step.

Backup	ist?				Help ?
Backup Festors	Home Home Home File Protection Selections Network location Schedule Set up destination Nutrication Nutrication	on Wizard Network locatio Warn when back Server name: Path on server:	on settings	Reports of the destination. NIFS proferred	Help ?
Recover Recover Remote Settings		Network locat	Check destin	 < Back Next	> Qancel

Figure 3: BackupAssist File Protection – Set up destination screen

Configure your backup destination, and click Next.

7

- If your media is removable, you can set the media to eject after the backup job has finished.
- If your media is a removable drive, you can select either *Mirror* or *Backup-with-history* for the replication mode. For non-removable media, the mode is determined by the scheme in step 5.

Note: It is important that you keep a copy of your password in a safe place, as <u>we cannot retrieve</u> <u>passwords if they are</u> lost or forgotten.

7. Notifications

Once a backup job has completed, BackupAssist can send an email to inform selected recipients of the result. This email notification can be enabled during the creation of a backup job, if the mail server has been configured.

To send email notifications, you will need to configure an SMTP mail server for BackupAssist. See the BackupAssist settings section to learn more or the Backup tab user guide for instructions.

To enable email notifications:

- a. Select, Add an email report notification.
- b. Enter recipients into the Send reports to this email address field.
- c. Enter recipients into the **Also send reports to this email address** field. You can then select the condition under which the email should be sent, using the drop-down box.

After the backup job has been created, you can modify the notifications by adding and removing recipients, setting additional notification conditions and including print and file notification types.

To learn more about notification options, see the **Backup tab user guide**.

8. Prepare media

If you selected a portable media device as your backup destination, you will be given the option to prepare and label the media. The label allows BackupAssist to recognize the media and ensure that the correct media is being used on the correct day.

For example, if you put an RDX drive in on Tuesday but it was labelled Wednesday, BackupAssist will warn you that the incorrect media has been detected.

To enable media detection:

- a. Select, Let BackupAssist keep track of your media.
- b. Select what you would like BackupAssist to do, *if the wrong media is inserted*.
- c. Select what you would like BackupAssist to do, if new or unrecognized media is inserted.

BackupAssist will display all removable media that are currently attached, along with a text field and drive designation drop-down box, which can be used to provide a label for the media.

To prepare your media:

- a. Enter the name and drive designation to be used for each media device listed.
- b. Select Prepare for each media device listed.

Selecting *Prepare* labels the backup media and adds a link to a *Destination Check report*. The report will advise if any problems were detected with the backup media.

Backup						Help 🖓
Backup	Home File Pro Selections External disk	To ens	Manage Zard your backup media use that your media totatoo media. This allows Backup			care and latistyour
Restore Recover	Schedule Set up destination Notifications Prepare media Rome root bocket	Let Ba If Is Preparations Disert or New hard	edia can be prepared indivi BackupAssist will check the mo kupAssist will check the mo the wrong media is inserted ew or unrecognized media erted: on writes an identifying lab connect each media item in ware will be automatically media after preparation	yourmedia dia before each öadup a Back up enyma is Do not back up el to each media. Suded in your current sch	nd take the following act y and warn user	an: •
Remote Settings			tok 1 tok 2 ily 1 ily 2	G: Prepa G: Prepa G: Prepa G: Prepa G: Prepa	re	<u>Next > Cancel</u>

Figure 4: BackupAssist File Protection – Prepare media screen

If you are using BitLocker, refer to the <u>BitLocker resource page</u> for disk preparation guidance.

9. Name your backup

Provide a name for your backup job, and click Finish.

Your File Protection backup job has now been created.

Important: Once a **backup job** has been created, it should be reviewed and run using the *Manage* menu. This menu provides additional options to configure your backup. See the section, <u>File Protection</u> <u>backup management</u>, for more information.

Important: Once the *backup* has been created, it should be checked. You can check the backup by performing a manual test restore, or using the <u>Backup Verification feature</u>.

Please note that a manual restore is the only way to fully test a backup, and regular manual restores should be part of your backup solution.

5. Restoring from a File Protection backup



The Restore tab displays the restore options available. This section provides instructions on how to use the *Local and Network Files* restore option, which is used to restore files and folders and VSS applications that do not have their own specific restore option.

The other restore options are documented in technology specific guides, as follows:

- For Hyper-V Host File and Hyper-V Granular restore, see the Hyper-V Protection guide.
- For SQL Server and SQL Point-in-Time restores, see the SQL Protection guide
- For Exchange Server and Exchange Granular restores, see the Exchange Protection guide

To restore data from a File Protection backup, follow these steps:

1. Select the Restore tab

The *Restore tab* has a *Home page* and a *Tools page*. The *Home page* is the default page and the recommended starting point for performing a restore. The *Tools page* should only be used by experienced administrators or users being assisted by technical support.

2. Select Local and Network Files

This will display the volumes backed up by this installation of BackupAssist. It can also show backups from other machines added using the *Discover Backups* button, which is explained below.

Expand a volume to display all of the backups available for that volume. There are tabs above each volume's backup list to help locate the required backup.

- The Last 7 days and Last 30 days tabs can be used to display the backups within those ranges.
- The *Custom* tab allows you to select a specific date range and display backups for that period.

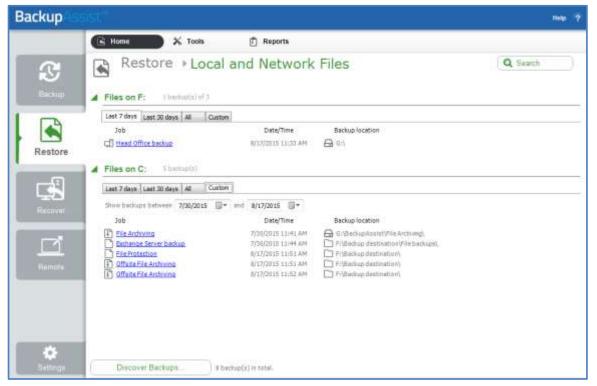


Figure 5: Restore tab – backup selection

The **Search** button allows you to locate files to restore across multiple backups. When you select Search, the Restore console will display the Search page.

								Help
	S Home 🛛 🗙	Tools	📋 Reports					
	\LambdaLocal a	nd Netwo	rk Files	▶ Search	1			
	Backups 202							
	Film by 2 John: Rafil Backup data: between		ver, Exchange barling and 2/ 1/2011	p, Fie Protection, F	le Archning, Offsite Backup, Offsite P	ile Arshiving, Meas	i Office heritage	
	Search Completed of	01.00. Beckups with	95.0bi) 20.					
	Search for: ".txt							
	[2] Crested: Deferm	7/ 7/2056						
	Madified Before							
	The second second second		2022					
	Signer Bigger than	5,000	bytes					
	Limit results per backup	10 🕀						
					Search			
	1. File Server @ 6/24/	2016 1:44 PM	First New 10,	Bradition 1(mm	e anostaletes			
	 File Server 食 6/24/ Nane 		Frank Press 10, Greated	Productor 1 (rem	Location			2
ľ			Greated	Modified		CRRS/Grafit		
ľ	Nane Nane Rome-tat	Size	Created 2013-12-31 30-13	Modified 2005-05-28 (4:55	Location			Î
ľ	Nane Nane Norse-tat Norse-tat	Size 50750	Created 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 20:13	Modified 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55	Location F: Backup Destination (C'Dell'Drivers') F: Backup Destination (C'Dell'Drivers') F: Backup Destination (C'Dell'Drivers')	CJDRB'/Graphi CJDRB'/Graphi		11 N
ľ	Name Romes.txt Romes.txt Romes.txt Romes.txt	502 50700 22644 48266 487990	Greated 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 20:13 2013-12-31 30:13	Modified 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:51	Location P: Boolog Destination (C'Dell'Orvers) F: Boolog Destination (C'Dell'Orvers) P: Boolog Destination (C'Dell'Orvers) P: Boolog Destination (C'Dell'Orvers)	CJDR8/Graph CJDR8/Graph CJDR8/Graph		н х
ľ	Nane Rense.txt Rense.txt Rense.txt Rense.txt Rense.txt	502 50700 22644 48286 48990 49906	Greated 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 30-13	Modified 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:54 2009-05-28 14:54	Location P: Bockup Destination (C/Dell'Orners) P: Bockup Destination (C/Dell'Orners) P: Bockup Destination (C/Dell'Orners) P: Bockup Destination (C/Dell'Orners)	CJDR8'(Graphi CJDR8'(Graphi CJDR8'(Graphi CJDR8'(Graphi		(m)
ľ	Name Revree.txt Revree.txt Revree.txt Revree.txt Revree.txt Revree.txt	5025 50750 22644 48256 48256 49306 333650	Greated 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 30-13 2013-12-31 10-13 2013-12-31 10-13	Modified 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:54 2009-05-28 14:54 2010-04-29 20:27	Location 1: Bookup Destination (CDell Drivers') 1: Bookup Destination (CDell Drivers')	CJDR81/Graphi CJDR81/Graphi CJDR81/Graphi CJDR81/Graphi CJDR81/Graphi		
ľ	Nane Renne tot Renne tot Renne tot Renne tot Renne tot Renne tot Renne tot Renne tot	Size 50750 22544 48236 49396 49396 33060 33060 30086	Created 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13	Hodfled 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2019-05-28 14:54 2019-05-28 14:54 2019-05-28 14:57	Location h: Bookup Destination (CDell'Drivers') F: (Sockup Destination (CDell Drivers') F: Sockup Destination (CDell Drivers') F: Sockup Destination (CDell'Drivers') F: Sockup Destination (CDell'Drivers') F: Sockup Destination (CDell'Drivers')	CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL		0 I W V
	Nane Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt	Size 50750 22544 48236 49396 49396 33060 33060 30086	Created 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13	Hodfled 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2019-05-28 14:54 2019-05-28 14:54 2019-05-28 14:57	Location 1: Bookup Destination (CDell Drivers') 1: Bookup Destination (CDell Drivers')	CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL CJDR8/GraphL		
	Nane Renne tot Renne tot Renne tot Renne tot Renne tot Renne tot Renne tot Renne tot	Size 50750 22544 48236 49396 49396 33060 33060 30086	Created 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13	Hodfled 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2019-05-28 14:54 2019-05-28 14:54 2019-05-28 14:57	Location h: Bookup Destination (CDell'Drivers') F: (Sockup Destination (CDell Drivers') F: Sockup Destination (CDell Drivers') F: Sockup Destination (CDell'Drivers') F: Sockup Destination (CDell'Drivers') F: Sockup Destination (CDell'Drivers')	CIDRB/Graph CIDRB/Graph CIDRB/Graph CIDRB/Graph CIDRB/Graph CIDRB/Graph	Restore	
	Nane Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt Renne.txt	Size 50750 22544 48236 49396 49396 33060 33060 30086	Created 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13 2013-12-31 30:13	Hodfled 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2009-05-28 14:55 2019-05-28 14:54 2019-05-28 14:54 2019-05-28 14:57	Location h: Bookup Destination (CDell'Drivers') F: (Sockup Destination (CDell Drivers') F: Sockup Destination (CDell Drivers') F: Sockup Destination (CDell'Drivers') F: Sockup Destination (CDell'Drivers') F: Sockup Destination (CDell'Drivers')	CIDRB/Graph CIDRB/Graph CIDRB/Graph CIDRB/Graph CIDRB/Graph CIDRB/Graph	Restore	

Figure 6: Restore Tab – Search page

- a) The *Backups* section allows you to use the *Jobs* Filter, to limit the search to specific backup jobs. You can also use the *Backup Date* filter search within a specified date range.
- b) The *Search* section is used to enter a search term associated with the name of the file you want to find. The *Search for* field will take the string provided and search for occurrences of that string within a file or directory name. The results of the search are displayed by backup.

To refine the search, use the Created, Modified and Size options. Ticking any of these options will activate a drop down list of variables to select from. For Created and Modified, you can select a date using the Calendar selection fields. For Size, you can select the file size in bytes.

The **Discover Backups** button allows you to browse for backup catalogs created by deleted jobs and other servers. Selecting those backups will add them to the list of available backups.

Discover Backups			Backup Assist [™]
The following backups will be m	ade available in the Restore and Re	cover tabs:	
📝 Show backups made by exist	ingjobs: 13		
Show backups made by delet	ted jobs: 1		
🔽 Show manually added backu	ps:0		+ 🗄 3
Job	Date/Time	Backup location	
			OK Cancel

Figure 7: Discover Backups

3. Select the backup that you want to restore from

Clicking on a backup's name will open the *Integrated Restore Console (IRC)*. The *Integrated Restore Console* is used to select the data to be restored, where to restore it to and the restore conditions.

4. Select the files, folders or applications that you want to restore

- Use the left pane to locate and select the data that you want to restore.
- The right pane will display the contents of the folder selected in the left pane.

Backup details					
Job: 🕒 File Protection Me	edia: 📄 Mirror				
Date: 8/18/2015 4:20 PM Bac	ckup location: F:\Backup [Destination			
1. What to restore					
E Local Disk (C:)		Name	Туре	Size	*
Graphics		Graphics Graphics Deckupassist_installation_userguide.pdf Deckup_tab_userguide.pdf Deckup_tab_userguide.pdf Centralized_monitoring_console_userguide.pdf Deckup_granular_restore_quickstart.pdf	Adobe Acrobat D Adobe Acrobat D Adobe Acrobat D Adobe Acrobat D		1
		<		•	
2. Where to restore					
To specific location 🔻	F:\Restore Destination\			Browse	
	Overwrite existing files	•			
	✓ Restore <u>N</u> TFS security	attributes			
	Take ownership of restored	ored files (as CORTEXIT\r)	Restore	Close	

Figure 8: Integrated Restore Console

5. Select Where to restore the data to

Follow these steps to select the restore destination and restore options:

- a) Under Where to restore select To original location or To Specific location.
- b) Use the *Browse* button to locate and select the restore destination.
- c) Use the drop down box to set the overwrite rules. The overwrite rules will apply if the files being restored encounter files with the same name in the restore destination.

You can select:

- Overwrite existing files The restored files will overwrite files in the restore destination.
- *Do not overwrite existing files* The restored files will not overwrite files in the restore destination. This means the files will not be restored.
- Only overwrite older files If a source file has changed since the backup was made it will not be overwritten.

d) Review the Restore NTFS security attributes option

If you select this option, the NTFS security attributes the file had when it was backed up will be retained when the file is restored. The NTFS security attributes can be viewed in the Security tab on the file's Properties

e) Review the Take ownership of restored files option

Selecting the *Take ownership of restored files* tick box will give the current user ownership of the restored files. The user is shown to the right of the text box description.

6. Select Restore

When you select the *Restore* button, the restore process will begin. The *Integrated Restore Console* will display information about the restore job and provide status updates as the job runs.

✓ Restore to F:\Restore Destination		Q Restoring - de	etails	
 Destination check 		Restoring from	F:\Backup Destination	\C\Test backup source\File Store
✓ Backup check		to	F:\Restore Destination	\File Store
Restoring	Q	Completed		processed 17 item(s)
		F:\Restore Desti	nation\File Store\backı	upassist_installation_userguide.pdf
			Restored:	
		Files and folders:	17	
		Size:	14.14 MB	
		Time elapsed: 0:0	00:00	
ist of all processed files and folders				Cancel Done

Figure 9: Integrated Restore console – restore monitor

Selecting *List all processed files and folders* ... will open notepad and display a list of the files restored, including their full path.

Encrypted backups

If your backup is encrypted, you'll be prompted for the encryption password when the restore job tries to access the backup. It is important that you keep a copy of your password in a safe place, as we cannot assist you with opening password encrypted files if your password is lost or forgotten.

If you encrypted the backup using BitLocker, you can use the password or encryption key to unlock the drive by connecting the flash drive. BackupAssist will use the key to unlock the drive that you are restoring from. You will not be prompted to do anything other than the normal restore steps.

7. Select Done

Once the restore has finished, selecting Done will return you to the main UI.

Your File Protection restore has now been completed

Helpful hint: If you do not have BackupAssist installed and need to restore a *File Protection* backup, you can browse to the location of your backup using Windows Explorer and copy the required files to any location, as long as the files are not encrypted.

6. File Protection backup management

Once you have created a backup job, you can modify the settings and access advanced configuration options using the *Manage* menu.

To access the backup management screen:

- 1. Select the BackupAssist, **Backup tab** and **Manage** from the top menu.
- 2. Select the backup job you want to modify, and select Edit.
- 3. Select the required configuration item on the left. Key configurations are described below.

Manually running a backup job

All new and modified backup jobs should be manually run to ensure they work as intended.

- 1. Select the backup job, and select Run.
- 2. You will be prompted to Rerun a past backup or to Run a future backup now.
- 3. When the backup job starts, the screen will change to the Monitor view.
- 4. Once the backup has been completed, select the *Report* button and review the results.

Destination: Enabling single-instance store

Removable media backups created with the *Backup-with-history* mode selected can be configured to use *single-instance store*, so that only one unique copy of each file is stored on the backup destination. Single-instance store is enabled by default. Backups cannot use single-instance store when the backup is saved on a ReFS formatted destination (e.g. Windows Server 2012).

To modify this setting:

- a. Select Destination from the left menu and expand Replication Mode Options.
- b. Check the option, Use the single-instance store.

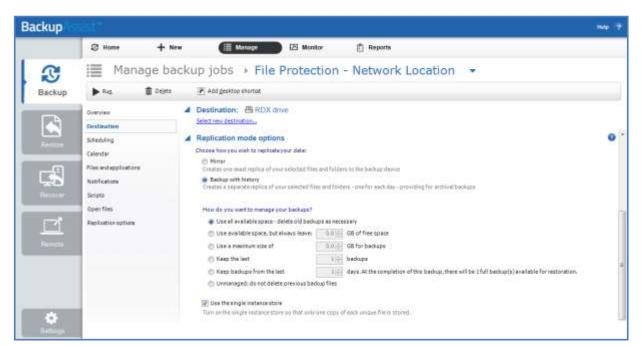


Figure 10: Manage backup – Removable media, destination screen

Scheduling

Selecting *Scheduling* will display the **Scheduling options.** You can use this screen to change the default time and days of your scheme's daily backups. If you selected a scheme with archive backups (e.g. weekly, monthly), you can specify when each archive backup will run. The current scheme is shown, along with two pop-up menus: *Select a new schedule* and *Customize schedule*.

Select a new Schedule: This will display the pre-configured backup schemes that you chose from during the creation of your backup job. The selections available will depend on the type of destination media you have selected. You can select a different scheme using this option.

Customize schedule: This selection can be used to modify each backup within your current schedule. The customizations available will depend on the type of backup media used. For File Protection backups, the *Method* field can only be set to *Automatic*. This is because single-instance store provides the benefit of incremental backups in a full backup format. This technology is managed by BackupAssist and does not require further modification.

For additional information on the Scheduling screen, please refer to the Backup tab user guide

Files and applications

If your backup job contains a Hyper-V guest with an Exchange Server, the authentication information for the guest should be entered into the **Exchange VM Detection** tab. Select the **File and applications** > **Exchange VM Detection** tab.

With these credentials, BackupAssist can detect what guests have an Exchange Server, and list the EDB file available for each guest when you perform a restore using the Exchange Granular Restore console

The Hyper-V process is automated but the restore requires both the *Exchange Granular Add-on* and the *Hyper-V Advanced Add-on* licenses.

	Ø Home + Ne	w Manag	B (8)	lonitor 📋 Reports				
3	Manage ba	ckup jobs 🔹	File Prote	ection - Networ	k Locat	ion 💌		
Backup	► RUL 🛱 Deleta	🗃 Erspara media	💽 Add gaski	ap shortad				
0	Overview	Files and applications	Exclusions	Exchange VM Detection				-
	Destination	Befresh CCheck sele	ctions 🛄 Add net	vork path 田Estimate size		Sire	Q.	Ke)
Realized Receiver Receiver Receiver Receiver Receiver	Scheduling Calender Files and applications Notifications Scripts Open files Replication options	Hildus Hi		Name	Туре			

Figure 11: Manage backup jobs screen - File and applications option

15

7. File Protection backup report

BackupAssist File Protection reports are very similar to those created from other backup engines. Some sections, however, are unique to File Protection and explained in greater detail below.

The **File Replication** section of the backup report, outlines how much data was backed up, how many files were backed up and includes details about single-instance store (if enabled).

The details outlined in the File Replication section include:

- Total file count: The total number of files that were selected for backup.
- **Files copied**: The actual number of files copied during the backup. If no files have been modified or no new files have been added since the last backup, BackupAssist will not copy them to your backup destination.
- **Files where no copy required**: If single-instance store is enabled, files that have not been changed since the last successful backup do not need to be copied to your backup destination.
- Total size: The total size of a full backup (i.e. all files selected for backup).
- **Size of files copied**: The amount of data that actually needed to be copied for this backup (i.e. new or modified data not already present at the backup destination).
- **Size of files where no copy required**: The total size of the files that did not need to be backed up due to single-instance store.

The Media Usage section of the backup report provides a list of File Protection backups stored at the backup's destination. This list can help you determine the number of backups stored on a device that you can restore from, and monitor the amount of free space available.

Total file count Files copied: 0	5: 35					
Files where no (copy requir	ed: 35				
Total size: 5.32 Size of files co		1-12				
Size of files wh			: 5.31 MB			
Media Usage						
Data usage for ⊥Dire	ctory - C:\Ba	ckups\File Pr	otection - Local D)irectory\		
Other Da	ata		Backup Data		Free Space	
37.33 G	5		5.33 MB		416.62 GB	
					Total Capacity 4	53.96 GBL
Data Used 37.34 GB (8	3.2%)					
	0%	20%	40%	60%	80%	100%
	0.0					

Figure 12: File Protection backup report