

Pinpoint Labs Harvester Server is a software application that enables users to collect data on remote systems from one shared location.

Users are able to create individual projects for different collection needs, launch and manage jobs from a remote location.

Users are also able to create, edit and manage jobs that can be used for any project.

Harvester Server can be tailored to suit remote collection needs.

Activating Harvester Server

ONLINE ACTIVATION

Harvester Server can be licensed and run from a shared network location or host computer.

Reference Video: Harvester Server 5.1 Download and Activate

To install and activate, follow these steps:

- Download the Harvester ZIP file specified in your registration email.
- Unzip the entire Harvester ZIP file contents to a shared folder or drive.
- Double click the Harvester Server application File *Harvester Server.exe* via its UNC path.
- When the new window displays asking "Do you want to register Harvester now?" click Yes



• Enter Account ID and click *Register* to activate the product using online activation.



OFFLINE REGISTRATION

Should a firewall block the connection to the licensing server, offline activation can be accomplished by doing the following:

	RVESTER	5 Runs Remaining
т с		Online Registration
888-304-1096	ctivation key, call Pinpoint Labs at with your Account ID and the serial below or email this information to pintlabs.com.	Purchase
Account ID:	HS-Fugazi-10	Register
Serial Number:	b8cc39b9469b	
A. C. C. K.	xxxx.xxxx4xxxx.xxxx	Cancel

- Enter your account ID and click **Offline Registration.**
- A serial number will be generated; call 1-888-304-1096 or email <u>support@pinpointlabs.com</u> with your Account ID and the serial number.
- Pinpoint Labs will generate an Activation key for you; enter this in the space provided and click **Register**.

TRANSFER LICENSE

Another advantage of Harvester Server is the ability to move it from location to location. Once activated on a server, you can perform your collection, deactivate and move the license to another network or server. The **Tools** menu has an option to **Deactivate License**, restoring the license to be used again elsewhere. Deactivating the license requires internet access.



Once you have placed the .zip file contents onto another device or computer, you can activate the license using your same Account ID.

ACCESSING PRODUCT AND LICENSING DETAILS

The items listed below can be accessed in the Harvester Server **About** screen from the **Registration** icon located under the Tools Tab as shown below:

1	X
	POINTLABS
Version: Copyright: License: Serial ID: Account ID:	4.1.126 2015 Pivotal Guidance, Inc Registered Copy b8cc39b9469b HS-Fugazi-10
Total Concur Total in use:	rencies: 10 0
Deactivate	ОК

- Version
- Serial ID
- Account ID
- Total Concurrences
- Deactivate (License)

NOTE: If using Harvester Hybrid licenses, **Manage Licenses** will also appear in the About screen

Deactivating the server license will disable all concurrences. Once the server license is successfully deactivated, Harvester can be registered on a different location.

ADDITIONAL FILE REQUIREMENTS

To be able to launch jobs remotely via PsExec or Relay Auto Deploy, you will need to download and add additional files to the Harvester Server Folder. To download and add these files, follow these steps:

• Open the internet browser of your choice and search for PsTools.

• Download the <u>*PsTools Suite*</u> from Microsoft.com



NOTE: This is a free download

• Once the PsTools suite is downloaded, extract the files and select the **PsExec** and **pskill** application files. Drag and drop them into the Harvester Server folder.

0	DevExpress.XtraTreeList.v13.2.dll
اب	Harvester Server
ڊ ا ڊ	HSDispatch
0	Microsoft.Experimental.IO.dll
	PsExec
] pskill

Creating a Project

Reference Video: Harvester Server Advanced Part 1- Project Queue and Dispatch Submission Options

Projects simplify organization and distinguish between different Harvester Server collection tasks. Upon starting Harvester Sever for the first time, the project list will be empty.

Open New Edit Create Run New Edit Brown	Resume Return for View Browse Brown G 3	
🗐 🗃 Projects	Overview Profile Settings	
- a ACME Accounting Audit		
ACME IT Audit	Name: ACME Server	
ACME Server		
ACME Legal Hold	Description:	
ACME Backup		
🖃 🥔 Job Profile		
ACME Accounting		
ACME Audit Review		
- ACME IT Department	Currently Selected Profiles Available Profiles	
ACME Safe	Job Profile(s): ACME Servier Baidsup ACME Accounting	
ACME Server Backup	ACME Safe ACME Audit Review	
🚽 🍻 Previous Unmanaged Jobs	ACME IT Department	
14Jul 14-101315 - ACME Audit Review	<u></u>	
- 🙀 143ul14-101233 - ACME Safe		
- 🙀 143ul14-101203 - ACME Audit Review		
14Jul14-101130 - ACME Server Backup		
414Jul14-101106 - ACME Server Backup		
🙀 14Jul 14-101038 - ACME Safe		
14Jul14-101014 - ACME Accounting		
14Jul 14-100953 - ACME Audit Review		

Create your first project with Harvester Server.

- Select **New** in the project section of Harvester Server; this will open a clean template for creating a project.
- Fill in a name that can be used to separate this project from other projects that may be in the project tree. This name will be the permanent project title.
- Select any jobs to be *selected by default* in the Job Queue Manager. The profiles can be edited in the Job Queue Manager before launching.

NOTE: All profiles will be available in the Job Queue Manager; however, profiles selected here will be selected by default.

PROFILE SETTINGS TAB

QUEUE AND DISPATCH OPTIONS

Cueue and Dispatch	Options
Hold status:	Released
Priority:	5
This license provide	s for 15 jobs.
Maximum license to	use: 15 🔶
☑ Do not run mult	ole job profiles simultaneously on the same computer.

Hold Status: The hold status will set the default of each job submitted within Harvester Server to Held or Released. This will determine whether the administrator will have to manually

release each job or whether they will be released automatically.

Priority: The priority set by the user will determine if the project will launch submitted collection jobs compared to other projects that have submitted collection jobs. Higher priority projects will launch jobs before lower priority projects.

Maximum licenses to use: This option allows the user to select how many of the available licenses they want the project to use. For example, if the user has Harvester Server with three licenses available and only selects one, then two other licenses will be available at all times for other projects to use.

Do not run multiple job profiles simultaneously on the same computer: When checked, this will prevent Harvester Server from running multiple, simultaneous collections on the same computer. If unchecked, multiple collection jobs will be run on the same computer if they are queued in that manner.

SUBMISSION OPTIONS

Users can select between using Harvester Server's **Relay** or **PsExec** to launch collection jobs in a specific project. If **PsExec** is selected, the user will see the option to enter credentials for the target system(s).

NOTE: Credentials for target systems can be added later on, but they will have to be entered for each computer individually.

PSEXEC is a command line based administration tool that enables the remote execution of processes on other systems. PsExec comes in the *PsTools* suite commonly used by IT professionals and administrators. Collection jobs submitted in a project can be launched using PsExec, provided the user has credentials for each of the individual target systems.

Jser Credentials		
User name:	User Name	
Password:	******	Clear
Repeat password:	*****	Passwords

HRELAY is a program that can be used in place of PsExec to launch collection jobs that are submitted in a project remotely. HRelay has to be installed on computers that are being collected from.

NOTE: Using HRelay requires access to target computers from the shared setting that Harvester Server is located. HRelay can be initiated via Group Policy, or used in conjunction with Relay Auto Deploy.

RELAY AUTO DEPLOY option is selected when users want to remotely launch jobs on target computers using Harvester Relay and it isn't already installed and running. Users will be prompted for credentials after *RelayAutoDeploy* is selected from the project options dropdown.

User Credentials			
User name:	User	Vame	
Password:	******		Clear
Repeat password:	****	****	Passwords
ease read the user's	guide fo	r information about th	e requirements for

When *RelayAutoDeploy* is set as the default job **Submit Options** the following steps will be taken for the target computer:

- Harvester Server pings the target computer to check if it is online.
- Harvester Server executes a PsExec command to copy the HRelay file to the target computer \Windows\System32 folder.
- Harvester Sever executes a PsExec command to start HRelay.
- If the above are successful, Harvester Server will send a request to Relay on the target computer to launch the selected Harvester profile.

RelayAutoDeploy can be selected for individual target computers as the Access Method in the Computer List grid from the dropdown if another option was set by default.

Access Method	
ck here to add a computer	
Relay	-
Relay	
PsExec	-
RelayAutoDeploy	

Select **Save** in the project changes portion of Harvester Server and you will have successfully created a project.

Create a Profile

Upon starting Harvester Server, you will first see the main interface screen. From here, you will be able to create and manage both projects and job profiles.

Main Tools Help		
Main Tools Help		
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Project 12 Job Profile 12	Job History 🕞 Job Dispatcher 😨	
Projects		
크 @ Job Profile		
ACME_Arthur_and_Milton_NO_VSS		
- ACME_Arthur_and_Milton_with_VSS		
DateTimeFilter	-1-	
DragFilter		
- @ ExtListFile	HARVESTER	
PieCollTestRen		
LDrive Variable		
Previous Unmanaged Jobs		
	Jobs	
	Jobs	
	To create a new job profile select, <i>Job</i> in the list to the left and then <i>New</i> in the <i>Job</i> group of the ribbon bar above.	
	To select an existing job profile, expand the list to the left by selecting the arrow in front of Job and click the name of the job.	
The job dispatcher is running on OWNER-PC. I rows were deleted. Then	re is no active job list.	License use: 0 of 10

Opening Harvester Server for the first time, the job profile list will be empty. Click the **New**

button and wait for the job creation screen to appear. Enter the name you would like to assign to the job.

Once a job is defined, you can choose to immediately run the job, or save it for an automated collection or future collection project.

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dol						
Save Save						
As						
File	-	1				
Dverview General Sources Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting	
 General settings 						
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Job file:	ACME File Coll	lection AB001.o	сс			
	ACME File Coll	lection AB001.o	cc			
Job file: Instructions:	ACME File Coll	lection AB001.o	cc			
	ACME File Coll	lection AB001.o	cc			
Instructions: In case of error:		lection AB001.o	cc			
Instructions: In case of error: Threads to use:	Automatic	lection AB001.o	cc			
Instructions: In case of error: Threads to use: Data assessment mode:	Automatic No	lection AB001.o	cc			
Instructions: In case of error: Threads to use: Data assessment mode: Dry run:	Automatic No No	lection AB001.o	cc			
Instructions: In case of error: Threads to use: Data assessment mode:	Automatic No	lection AB001.o	cc			
Instructions: In case of error: Threads to use: Data assessment mode: Dry run:	Automatic No No	lection AB001.o	cc			
Instructions: In case of error: Threads to use: Data assessment mode: Dry run: Silent mode:	Automatic No No	lection AB001.o	cc			
Instructions: In case of error: Threads to use: Data assessment mode: Dry run: Silent mode: Command to run on start:	Automatic No No Yes	lection AB001.o	cc			

The **Overview** tab provides easy access to all the job profile settings for a saved job. This eliminates the need to click each tab as all the settings are summarized in the Overview tab.

Previously created Job Profiles (both from Harvester Server and Harvester Portable) can be imported to the job profile list in Harvester Server, or they can be dragged and dropped from Windows Explorer into the Job Profile tree area.

Job profiles (.occ) are stored in the _occ directory in the HARVESTER sub-folder of the Harvester Server directory. Once job profiles are copied and pasted into this folder, users will need to refresh the *Job Profile Tree* by right clicking and selecting *Refresh Tree*, to be able to access them directly from Harvester Server.

Users can remove old or unwanted job profiles by right clicking and selecting **Delete**.

	Main	Tools				
-	8		a star			8
Open	New Ed	it Create Batch Fil	Run	New	Edit	Browse
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1 (P)	lob Profile					
-4	ACME Acco	ounting				
	ACME Aud	tReview	Refrest	Tree		
- 4	ACME IT D	epartment	Delete	THEE		
-4	ACME Safe		Delete		_	
	ACME Serv	er Backup				

When a job profile is removed, it is not permanently deleted. To recover a removed job profile, follow these steps:

- Browse to the _occ folder located within the Harvester folder of Harvester Server.
- Change the file extension of the removed job or jobs that you would like to recover from *.ocd* to *.occ* .

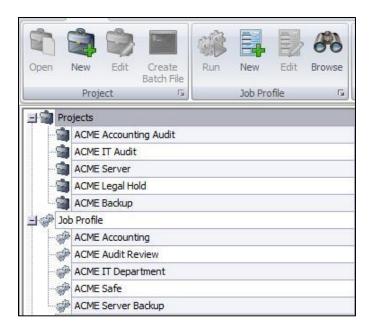
Name	Date modified	Туре
ACME Audit Review.ocd	7/1/2014 10:11 AM	OCD File
ACME File Collection.occ	7/1/2014 10:11 AM	OCC File
ACME Legal Hold - Accounting.ocd	7/1/2014 10:12 AM	OCD File
ACME PST Filter.occ	7/1/2014 10:12 AM	OCC File
LHTY Server Backup.occ	7/1/2014 10:11 AM	OCC File

• Right click and select *Refresh Tree* to refresh the job profile tree and use the recovered jobs profiles.

EDITING A JOB

After a job profile is created or imported, it can be edited at any time. To edit a job profile, follow these steps:

- Select the job profile form the job profiles list and click the *Job Edit* button on the toolbar.
- Once the job editing screen appears, make changes to the job profile as needed.
- When finished, click *Save* or *Save as* to save any changes made to the job profile.
- Exit from the job editing screen, Harvester Server will reappear and any changes made will be effective immediately.



Running a Harvester Server Profile

Reference video: Running Harvester Server 5.1 Locally

To run a Harvester Server job, click on the profile from the job profiles list and click **Run**. A prompt will appear requiring you to select a project to associate the job with or to skip and let the job run independently.

Press "Skip" to run job without any project association. Press "Cancel" to not run the job. Job monitoring and control is only available for jobs that are associated with a project.	Press "OK" to	make this job part of a pro	niect
bb monitoring and control is only available for jobs that are ssociated with a project.			
ssociated with a project.	ess "Cance	I" to not run the job.	
		and control is only available	ble for jobs that are

To run a job independent of any projects, select *Skip*. A window will appear that requires the user to select **OK** to continue. Once the job begins, the Harvester progress console will appear and provide important feedback as well as real-time statistics.

If you would like to associate the job with a project, you must select which project from the dropdown menu of the prompt, and then select **OK**. A window will appear that will require you to click **OK** to confirm that you want to run that job. Once the job begins, a Harvester Server progress console will appear and provide important feedback as well as valuable statistics. You can also open the project that the running job is associated with and receive real-time statistics from within the project manager.

Main Tools Help Close New Edit Create Project r5 Dod Que:	n Refresh Stop Auto Pr Now Refresh	int Sta	art Stop		Project Ca Submit Jo sk Submit St.	bs	ime Rerun for Restart Stop Det Errors Job Actions	ete View Results		
Project: Legal Hold ().										
Drag a column header here to group by that no V Job ID / Descript V I WinNT;/		eywords	Emails	Encryp	oted Error:	8		- 8	× ime (local)	Last Update Time (UTC
	Run on CPU: PGI-TES Run by user: administra	eyword_Sea f10 ator ed without (End Elap errors Sear Extr Ove	time: sed tii rch sp	29 me: 00 eed: 00 speed: 00	Apr 2015 (13:23:55) Apr 2015 (13:24:19) 00:00:33 18/hr 18/hr 18/hr			· •	
		Searched	Found E	kclude	d Copied I	ncomplete	Errors			
	Loose files	0 O Bytes	0 O Bytes	0 0	0 O Bytes	0 O Bytes	0 O Bytes			
	Email messages	0 O Bytes	0 O Bytes	0 0	0 O Bytes	0 O Bytes	0 O Bytes			
	Email stores	0 O Bytes	0 O Bytes	0 0	0 O Bytes	0 O Bytes	0 O Bytes			
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NOTE: If run independent of a project, job results can be viewed by selecting the job from the *Unmanaged jobs* list, then selecting *View Results* from the toolbar.

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Open	New	Edit	Create Batch File	Run	New	Edit	Browse	Resume	Rerun for Errors	View	Browse
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-11 P	rojects										
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	ACME Le	egal Ho	ld								
	ACME B	ackup									
+ 💮 J	ob Profile										
- 🙀 P	revious Un	manag	ed Jobs								
Se	14Jul 14	-10131	5 - ACME Au	dit Revie	w						
	14Jul14	-10123	3 - ACME Sa	fe							
1	\$ 14Jul14	-10120	3 - ACME Au	dit Revie	W						
	k 141114	-10113	0 - ACME Se	rver Back	un						

The Previous Unmanaged Jobs tree does not refresh automatically when a job is completed. To view the latest job that has been run, right click in the tree area and select refresh.

To view history statistics for Jobs that have been run outside of Harvester Server or in a previous version, you can browse out to _jobfile.scj files by using the browse button in the **Job History** section of the toolbar. _jobfile.scj files can also be dragged and dropped into the Previous Unmanaged Jobs area and viewed. Job .scj files can be found in the logs folder of each job.

Pro	jects	
	ACME Server Backup	
-	ACME Legal Hold - Accounting	
-	ACME Legal Hold - Customer Service	
-	ACME Audit Review	
Dob	Profile	
Î	ACME Audit Review	
-	ACME File Collection	
-	ACME Legal Hold - Accounting	
	ACME PST Filter	
-	LHTY Server Backup	
& Pre	vious Unmanaged Jobs	
-	1Jul 14-113349 - LHTY Server Backup	
-	1Jul 14-113337 - ACME Legal Hold - Ac	counting
-	1Jul 14-113320 - ACME PST Filter	
-	1Jul 14-113305 - ACME File Collection	
-	1Jul 14-113246 - ACME Audit Review	
-	1Jul 14-113233 - ACME PST Filter	
103	1Jul14-113220 - LHTY Server Backup	
	1Jul 14-113156 - ACME PST Filter	
-	1Jul 14-113134 - ACME Legal Hold - Ac	counting
		Refresh Tree
		-

Project Manager - Creating Jobs

Selecting a project in the project list and clicking *Open* while having will bring you to the Project Manager screen. This screen contains real time statistics of running and/or previously run jobs.

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	Target Computer	Online Status	Job Name	Job Stage	Dispatch Status	Process ID	User Name	Start Time (UTC)	Start Time (local)	Last Upo
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nNT://PGI2.NET/PGI-TEST10	PGI-TEST10	Unknown	Beta1_My_Template02_DAM	Run complete		-1	administrator	04/22/2015 16:10:04	04/22/2015 11:10:04	04/22/20
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Reference Video: <u>Harvester Server 5 Advanced Part 2 - Create and Submit Collection Tasks</u>

When first opening a project, the Project Manager screen will be empty until collection jobs are submitted to it. To start launching jobs on remote systems, click the *Job Queue Manager*



button:

JOB QUEUE MANAGER

The Job Queue Manager is where the user can view all the computers and jobs available to work with and also set up, review and submit any collection jobs.

Frede Collection Jobs Delete Selected Import Export Traget Computer Scheded Computer Scheded Computer Scheded Computer Scheded Collection Scheded Scheded Collection Scheded Scheded						Job Queu	e Manager		- = x
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Name Job Profile User Name Password Access Method Queue Mode 9 Click here to add a computer Click here to add a computer PGI-TESTI0 KaywordSearchingOC PGI-TEST1 WinNT://PG Online Relay Relased PGI-TEST12 WinNT://PG Online Relay Relased PGI-TEST12 WinNT://PG Online Relay Relased PGI-TEST14 WinNT://PG Online Relay Relased PGI-TEST4 WinNT://PG Online Relay Relased PGI-TEST5 WinNT://PG Online Relay Relased PGI-TEST5 WinNT://PG Online Relay Relased PGI-TEST5 WinNT://PG Online Rel	Create Collectio	on Jobs Delete Selected mputers Computers Co	Import Exp amputer List Compu	oort Impor	t Create List of Domain Computer	Delete Submit Jobs Collection Job			
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PGI-T-IIIIXC WinNT://PG Online Active Jath Relay Relased PGI-T-IIIXC WinNT://PG Online Active Jath PGI-TESTI0 Keyword/Searching/DC PGI-TESTI1 WinNT://PG Online Active Jath PGI-TESTI0 ACtive Jath PGI-TESTI0 PGI-TESTI2 WinNT://PG Online Relay Relased PGI-TESTI0 ACtive Jath ACtive Jath PGI-TESTI0 ACtive Jath PGI-TESTI0 ACtive Jath ACtive Jath <td>*</td> <td>Description Deards</td> <td></td> <td></td> <td>Trassitional Process</td> <td>Thering Quede Thede</td> <td>▶ PGI-8-32</td> <td>ACME_Arthur_and_Milton_with_VS</td> <td>S 5</td>	*	Description Deards			Trassitional Process	Thering Quede Thede	▶ PGI-8-32	ACME_Arthur_and_Milton_with_VS	S 5
PG1-PG1 WnN117/PG2 Online AcME_Layword_Search PG1-PG1 PG1-PG1 WnN117/PG2 Online Relay Relased PG1-PG1 ACME_Layword_Search PG1-PG1 PG1-PG1 WnN117/PG2 Online Relay Relased PG1-PG1 ACME_Layword_Search PG1-PG1 PG1-PG1 WnN117/PG2 Online AcWE_Layword_Search PG1-PG1 ACME_Layword_Search PG1-PG1 PG1-PG1 WnN117/PG2 Online ACME_Layword_Search ACME_Layword_Search PG1-PG1 PG1-PG1 WnN117/PG2 Online A	Incle TURN	Junear Ung Loster	calcientere co	add a compacer	l Instau	Deleased	PGI-TEST10	KeywordSearchingDC	9
PGI-TEST1 WinNT://PG Online KeywordGo Relay Relased SGIETEST0 WinNT://PG Online KeywordGo Relay Relased SGIETEST2 WinNT://PG Online Relay Relased PGI-TEST6 ACME_Arthur_and_Milton_NO_VSS PGI-TEST2 WinNT://PG Online Relay Relased Relased PGI-TEST5 WinNT://PG Online Relay Relased Relased PGI-TEST6 WinNT://PG Online Relased Relased Relased PGI-TEST6 WinNT://PG Online Relased Relased Relased			INCOME AND				PGI-TEST12	ACME_Keyword_Search	
PSICTESTIO WinNTr//PG Online KewwordSe Relay Released PSICTESTI2 WinNTr//PG Online Addle_Key Released PSICTESTI2 WinNTr//PG Online Relay Released PSICTESTI3 WinNTr//PG Online Relay Released			ALLINE_ARCH	ų.			PGI-TEST5	ACME_Arthur_and_Milton_NO_VSS	
PG1:TEST12 WinNT://PG Online ACME_Key Relay Relased PG1:TEST4 WinNT://PG Online Relay Relased PG1:TEST4 WinNT://PG Online Relay Relased PG1:TEST5 WinNT://PG Online ACME_Arth Relased PG1:TEST5 WinNT://PG Online ACME_Arth Relased PG1:TEST5 WinNT://PG Online ACME_Arth Relased PG1:TEST5 WinNT://PG Online Relay Relased PG1:TEST5 WinNT://PG Online Relay Relased			(Margaret Margaret Farmer)				PGI-TEST8	ACME_Arthur_and_Milton_NO_VSS	
PGI-TEST2 WinNT://PG Online Relay Relased PGI-TEST4 WinNT://PG Online Relay Relased PGI-TEST5 WinNT://PG Online Relay Relased PGI-TEST5 WinNT://PG Online Relay Relased PGI-TEST6 WinNT://PG Online Relay Relased PGI-TEST6 WinNT://PG Online Relay Relased PGI-TEST6 WinNT://PG Online Relay Relased	States of States and States	Construction of the second second second second				Transaction and a			
PGI-TEST4 WinNT://PG Online Active_Antropy Relay Released PGI-TEST5 WinNT://PG Online Active_Antropy Relays Released PGI-TEST5 WinNT://PG Online Relay Released PGI-TEST6 WinNT://PG Online Relay Released PGI-TEST6 WinNT://PG Online Relay Released PGI-TEST6 WinNT://PG Online Relay Released	A REAL PROPERTY AND A REAL		AND ME_NEY						
PGT:TESTS WinNT://PG Online ACME_Alth Relay Released PGT:TESTS WinNT://PG Online Relay Released PGT:TEST5 WinNT://PG Online Relay Released PGT:TEST7 WinNT://PG Online Relay Released	and the second se								
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	- Prat-Innio	and any second second	ACHE_MILL.		NHE)	Meleopeu			
	-								
	1					<u>•</u>	I		
	i tasks added.		_	_					

To get started launching jobs on remote systems, you first need to add the target systems to your Computer List Grid. Below are different options for adding target systems to your Computer List Grid.

- By selecting *Click here to add computer* above the Computer List Grid, users can manually add computers to their computer list. Users will have to have computer name and credential information for computers that are added manually. *NOTE:* Harvester Server will not be able to detect whether the information entered is a legitimate system or not, so make sure the system information is correct.
- Importing a computer list is easy with Harvester Server. Simply click *Import computer list* and browse out to your computer list file and click *Open*. The computers in this list will be added to your Computer List Grid.
 NOTE: Computer list files need to be formatted in comma separated value (.csv) files to be successfully imported.
- 3. Creating a computer list with Active Directory is a good option for those who do not have a previous computer list. Clicking *Create computer list from domain* will create a working computer list file of all the computers on the domain and then export that list



to the export folder. From there, users can select

4. *Import computer list*, browse out to the exported computer list located in the export folder of Harvester Server, and import it into the Computer List Grid.



Creating a computer list- There are two ways to create a computer list without using Active Directory search, using a text document or using Microsoft Excel. To make a computer list using a text document, open a new text document, then type the name and description of the target system separated by a comma as shown below.

PGI	-TEST1,WinNT://PGI	2.NET/PGI-TEST1
	-TEST2, WinNT://PGI	
PGI	-TEST3,WinNT://PGI	2.NET/PGI-TEST3
PGI	-TEST4, WinNT://PGI	2.NET/PGI-TEST4
PGI	-TEST5,WinNT://PGI	2.NET/PGI-TEST5
PGI	-TEST6, WinNT://PGI	2.NET/PGI-TEST6
PGI	-TEST7, WinNT://PGI	2.NET/PGI-TEST7
	-TEST8, WinNT://PGI	
PGI	-TEST99, WinNT://PG	<pre>I2.NET/PGI-TEST99</pre>
	4-THINK, WinNT://PG	
WTN	-J045IQG5DPP, WinNT	://PGI2.NET/WIN-J045IQG5DP

- To enter more than one computer, hit the **Enter** key and repeat the process. When finished adding all the target systems, save to a location accessible by Harvester Server.
- To create a computer list using Excel, open a new Excel spreadsheet. Next, type the computer name in the first column and the computer description in the second column. To add more than one computer, hit the **Enter** key and repeat the process. When finished, save the spreadsheet as a .csv file to a location that Harvester Server can access.

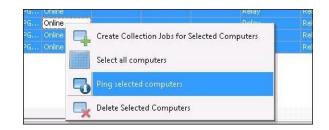
CREATING COLLECTION JOBS

A collection task is a job that an assigned target system is to complete. There are many different scenarios where custom collection jobs need to be created.

Reference Video: Harvester Server 5 Advanced Part 2 - Create and Submit Collection Tasks

A common scenario is submitting collection jobs to the target systems that are currently online, and waiting to submit for the offline systems. To create collection jobs for the scenario follow these instructions.

- Select all computers in the Computer List Grid.
- Right click and select **Ping Selected Computers** to check whether the target systems are online.



- Click and drag **Online status** to the gray area above the grid to sort target systems by online status.
- Select online target systems that need to be collected from and either click create a collection task in the tool bar, or right click and click *Create collection task* from the dropdown menu.
- After reviewing the collection task list, if it is correct, click *Submit collection jobs*.

Another common collection scenario is having different jobs for the target systems within the same project. To create specific collection jobs in the scenario, follow these instructions

Make sure each target system has the correct box checked.

- Drag the **Job Profiles** field into the gray area above the grid to sort the computer list by the job profiles selected for the target systems.
- Select the group of jobs you would like to run at this time to expand the computer list that fits the specifications.

Na	me /	Status	Description	User Name	Password	Access Method	Queue Mode	Priorit
			Click	k here to add a c	omputer			
-	Job Profiles:	ACME Ema	ail-Hold, ACME Email Colle	ction, ACME File	Collection			
	PGI-TES	Online	Denise Brown			Relay	Released	
=	Job Profiles:	ACME Ema	ail-Hold, ACME Email Colle	ction, ACME File	Collection, A	CME Keyword & Da	te Range Filter	
	PGI-TES	Offline	Bobby Escalante			PsExec	Released	
+	Job Profiles:	ACME Ema	il Collection, ACME File Co	ollection				
-	Job Profiles:	ACME Ema	il Collection, ACME File Co	ollection, ACME K	eyword & Da	te Range Filter		
	PGI-TEST4	Online	Larry Gray	8		Relay	Released	1

- 1. Select all computers within the sub category and click **Create collection jobs** in the tool bar or right click and select **Create collection jobs** from the drop down menu.
- 2. After reviewing the collection jobs list to make sure it is correct, click **Submit collection jobs** from the tool bar.

After submitting collection jobs, the next step is monitoring and managing them in the Project Manager.

Project Manager - Managing Jobs

Once jobs are submitted to Harvester Server, they can be tracked and managed from the Project Manager.

escription	1				
Г	Job ID	/ Online Status	Target Computer	Job Name	Job Stage
_ Descript	ion: Christo	pher Neal			
		3 Unknown	PGI-TEST6	ACME File Collection	Processed 878 of 2488 items (325 of 731 MB)
- Descript	ion: Daniel H	Harvard			
		5 Online	PGI-TEST8	ACME File Collection	Completed
		8 Online	PGI-TEST8	ACME File Collection	Processed 42 of 1135 items (46 of 376 MB)
- Descript	ion: David H	larris			
		2 Unknown	PGI-TEST5	ACME File Collection	Processed 264 of 4091 items (144 of 1399 MB)
_ Descript	ion: Kathryr	n Hawes			
		1 Online	PGI-TEST4	ACME File Collection	Completed
		6 Online	PGI-TEST4	ACME File Collection	Processed 267 of 589 items (193 of 394 MB)
_ Descript	ion: Ronald	Garcia			
Г		4 Online	PGI-TEST7	ACME File Collection	Completed
		7 Online	PGI-TEST7	ACME File Collection	Starting job

Reference Video: <u>Harvester Server 5 Advanced Part 3 - Job Manager Features</u>

When tracking a job in the Project Manager, there are different stages it will go through that provide important information on how the job is progressing. Below are the titles and brief descriptions of the job stages that will appear when a collection task is running or completed without any errors.

- **Pending Start**: This stage occurs directly after the job is submitted or resumed. During this stage, the collection task is being sent out to the target system and tells Harvester Server where to begin collecting.
- **Pending Stop**: This stage occurs when a stop command is issued to a collection task.
- **Start Issued:** This stage occurs when a start command has been received by Harvester Server but the job is still initializing. Process ID from the target system should be available at this time.
- **Enumerating:** This stage occurs when Harvester Server is running through its first stage on the target system. During enumeration, Harvester Server goes through the target sources and marks each file that fits the collection task criteria for processing. In this stage, there will be real-time statistics on the number of files found and excluded for processing.
- **Processing:** This stage occurs when Harvester Server is going through its second and final stage on the target system. During processing, all files that were marked for

copying during enumeration are copied to the target location. This stage will provide real-time statistics on the number of files that have been processed.

 Completed: This stage occurs when Harvester Server has completed the collection task without any errors. To view more in depth information about the completed job, select the job and click View results from the tool bar or right click on the job and select View results from the dropdown menu.

Collection jobs will not always run through without any problems. These Harvester Server job stages are meant to help locate the problem and get the user back on track faster. Below are the titles and brief descriptions of the job stages that occur when a problem exists.

- Initialization failed: This stage occurs when collection task information was communicated to Harvester Server, but Harvester Server failed to start enumerating and processing the data.
- **Start failed:** This stage occurs when a stopped or paused job is issued a resume command, but Harvester could not resume the job. This stage can also occur when a job is first started and the collection task is not communicated to Harvester Server.
- **Stop failed:** This stage occurs when a stop command was issued but the collection jobs could not be stopped.
- **Timed out:** This stage occurs when the collection task in progress has not received update information from Harvester Server for ten minutes. This is usually caused by a problem with the target system such as being disconnected from the server, powering down or restarting. Once timed out, the collection task will move to a stalled job status.
- **Stalled:** This stage will occur directly after time out and triggers the Harvester Server *AutoResume mode,* which will attempt to resume the job periodically without any user input. Harvester Server Dispatcher will continue to check every 15 seconds (ping) and see if computers associated with a stalled job are available. If the computer comes back online and the conditions correct a job restart will be issued.
- **Completed with errors:** This stage will occur when a collection task has finished, but there were errors. To re-run the collection task just on the files that encountered errors, select the job and click **Re-run for errors** from the tool bar, or right click the job and select it from the dropdown menu.

PROJECT MANAGER – TOOLS

Below is a list of each action in the Project Manager and a brief description of what it does.



- **Close:** Clicking this will close the current project and return you to the main Harvester Server interface. Jobs will continue to run\launch as long as the project allows it and job dispatcher is running.
- **Open Job Queue Manager:** Clicking this will open the Job Queue Manager. From here, users can create collection jobs and submit them to Harvester Server.
- **Refresh Now:** Clicking this will force an immediate update of information within the Project Manager grid.
- **Stop/Start Auto Refresh:** Clicking this will toggle turning Auto Refresh on and off. When Auto Refresh is on, the information within the Project Manager grid updates every 5 seconds on its own. When Auto Refresh is off, the Project Manager grid will not refresh unless it is turned back on or **Refresh Now** is clicked.
- Job Dispatcher Start and Stop: Job dispatcher is a program that runs in your system task tray that allows Harvester Server to submit jobs when it is both open and closed. Selecting Stop will close Job Dispatcher and will prevent jobs from being launched completely. Selecting Start will open job dispatcher and allow jobs to be run.
 NOTE: Switching this setting will affect every project within Harvester Server. Once job dispatcher is started, all projects will be able to run jobs.
- Jobs Submit Status: Clicking this will allow the user to toggle between allowing the project to submit jobs and not allowing the project to submit jobs. This is useful when stopping job dispatcher is not an option because other projects need to continue to run jobs.
- **Release Job:** Clicking **Release Job** will allow the selected jobs that are being held to run. This will not affect any jobs that are already released.
- **Resume Job:** Clicking this will resume the selected jobs from where they last stopped. This can be used to resume jobs that stopped due to being in data assessment mode. Jobs that have finished successfully cannot be resumed.
- *Rerun for Errors:* Clicking this will restart selected jobs from the beginning, retrying all of the errors that occurred during the job.
- **Restart Job:** Clicking this will cause the selected jobs to restart from the beginning and they will lose any work that has already been done.
- **Stop Job:** Clicking this will stop selected jobs that are running. These jobs are able to be resumed.
- Delete: Clicking this will delete selected jobs from the Project Manager screen. Collection jobs currently in progress cannot be deleted.
 NOTE: Once deleted, collection task information can only be found in the logs area of

the specified collection task. Users will not be able to view the information from the Project Manager again.

• *View Results:* Clicking this will bring up the history information for the selected job.

Harvester Server uses Job Dispatcher to submit and run collection jobs even when the main application is closed.



Job Dispatcher is unique, as it only runs on the system that first opens the instance of Harvester Server. Harvester Server can still be opened and collection jobs launched on other systems. These would be submitted to a job queue and launched from the first system's Dispatcher.

Job Dispatcher start and stop options will also be unavailable to users who start Harvester Server after Job Dispatcher is currently running on another system.

If Job Dispatcher is shutdown on the first system, each system with Harvester Server currently open will receive a warning that Job Dispatcher is not running. Those users will also have the option to start Job Dispatcher on that system.



When Job Dispatcher is started on another system, other Harvester Server applications will lose the ability to start and stop Job Dispatcher again and notification windows will no longer appear.

PROJECT MANAGER GRID

The Project Manager grid shows all the information about collection jobs that are within a project.

The fields within the Project Manager grid can easily be customized to view the most important information available with these methods.

- The entire grid can be reorganized in ascending or descending order by information from within a column by left clicking the title of the column.
- The columns of information can be put into the desired order you want by left clicking, dragging individual columns to the right or left, and then dropping them where you would like them.
- Columns can be reorganized into greater detail by left clicking, dragging the column into the gray space directly above the Project Manager grid and dropping it there.
- By default, some columns will not be able to show all text within the field. To view all the text within a column, simply left click the edge of the column and drag to expand it, or you can double left click the right edge of the column to automatically expand it to fit the largest line of text currently in the column.
- Information from within the grid can be broken down in greater detail by selecting the

in the right corner of an information column and selecting *Custom*.

Users can also customize the colors that the represent stages and status of jobs by going to the tools section of the Project Manager and selecting the *Grid colors* option. From here, the user can either edit each pair of colors individually or complete groups of colors by editing the first in each group and then selecting *Edit group*.

INFORMATION COLUMNS

Each column of the Project Manager screen displays different information about the submitted collection jobs. Below is a table containing the name and a brief description of each column within the Project Manager grid.

Column Name	Description
Job ID	Job ID is a number assigned to each job as it is submitted.
Description	Custodian name and other important identifiers.
Target Computer	Computer that is the target of the collection task.
Online Status	Displays whether the target system is online or not.
Job Name-profile	Name of the job that is being monitored.
Job Stage	Completion status of the job being run.
Dispatch Status	Current status of the job dispatcher.
Process ID	Gives the process ID that the target computer assigns to the running job.
Process	Stage of the job being run.
Custodian	This is a legacy field from Net Harvester that is currently not in use
Location	This is a legacy field from Net Harvester that is currently not in use
Username	Username of the target computer.
Computer name	Target Computer
Start time	Time that the job was started.

Last time that progress for the job was updated.
Total time the job has been running.
Path to the Target folder of the job.
Path to the Logs folder of the job.
Number of loose files found.
Number of loose files copied.
Number of loose files skipped.
Number of errors found with loose files.
Number of identified email stores.
Number of email stores copied.
Number of skipped email stores.
Number of errors found in email stores.
Total number of identified messages.
Total number of skipped messages.
Total number of errors found with messages.
Priority of the job.
Whether the job is held or released.

JOB QUEUE MANAGER TOOLS

Create Collection Jobs: Clicking this button will create collection jobs for any selected computers and the jobs that are checked for them. Once clicked, the collection jobs will be moved over to the collection jobs grid where they can be reviewed before submission.

	name	job_profiles	priority	
	PGI-TEST 10	ACME Email-Hold		
1	PGI-TEST 10	ACME Email Collection		
	GI-TEST 10	ACME File Collection		5
1	PGI-TEST33	ACME Email-Hold		1
1	PGI-TEST33	ACME Email Collection		1
1	PGI-TEST33	ACME File Collection		ļ
1	PGI-TEST33	ACME Keyword & Date Range Filter		1
	PGI-TEST6	ACME File Collection		1
	PGI-TEST6	ACME Email Collection		5

Delete selected computers: Clicking this will delete the selected computers from the computer grid.

Import Computer List: Clicking this will allow you to select a computer list that will be added to the computer grid.

Export Computer List: Clicking this will export your current computer grid list to a file that can be imported into another project.

Import Options: Clicking this will give you the option of ether appending or replacing the current computer grid list with the imported computer list. If *Append computer list* is selected, then the imported computer list will be added onto the bottom of the current computer list. If *Replace computer list* is selected, then the imported computer list will replace the current computer grid list.

Create Computer List from Domain: Clicking this will make Harvester Server automatically create a computer list of all of the computers in the domain. This computer list can be imported after it is created.

Delete Selected Jobs: Clicking this will delete any selected collection jobs in the collection task grid.

Submit Collection Jobs: Clicking this will submit all collection jobs to be run by Harvester Server. The progress of these jobs can be viewed and managed with live updates from the Project Manager screen.

VIEW RESULTS SCREEN

The view results screen provides more in depth information about a job that has run than the project manager screen provides.

Run time sum	inal y						
Job Name: ACI	ME File Collection	Start	time:	29 May 2	014 (15:23:28)		
Run on CPU: PG	-TEST10	End ti	me:	29 May 2	014 (15:25:41)		
Run by user: adr			ed time:	00:00:02:			
	npleted without er		and the second s	11.69 GB			
Enumerated: Yes				d: 4.62 GB/			
Extracted: Yes	Ê.	Overa	ll speed:	3.68 GB/	hr		
Item processi	ng summa	r v					
reen processi	gounna						
	Searched	Found	Excluded	Copied	Incomplete	Errors	
Loose files	299	299	0	299	0	0	
	105.75 MB	105.75 MB	0 Bytes	105.75 MB	0 Bytes	0 Bytes	
Email messag	jes 758	758	0	758	0	0	
	21.63 MB	21.63 MB	0 Bytes	21.63 MB	0 Bytes	0 Bytes	
Email stores	4	4	0	4	O	0	
	43.9 MB	21.63 MB	22.28 MB	21.63 MB	0 Bytes	0 Bytes	

TAB NAME	DESCRIPTION
Summary	Contains run time statistics and totals for email and loose files categories.
Settings	A snapshot of the job profile settings. This can be very useful if users would
	like to know if, for example, they chose a setting or included all keywords.
Files	Tally for file types that includes total count and size.
Keywords	Lists total hits for each keyword entry and allows users to launch keyword hits
	preview.
Emails	Review which mail stores had matching items and the folder location.
Encrypted	Shows list of identified encrypted files organized by type.
Errors	Shows list of identified errors organized by category.

Below is a list and brief description of each of the tabs within the View Results screen.

General Tab, Sources Tab and Targets Tab

This table identifies the job profile tabs and how Harvester profile settings are organized:

TAB NAME	DESCRIPTION	
General	Enter new job profile name and instructions.	
Sources	Select sources like local hard drive, file shares, and individual	
	folders.	
Targets	Specify where data and logs will be stored.	
Key Word Filters	Enter keyword criteria for documents or email.	
File Filters	Specify file types and if de-duplication will be used.	
Email Filters	Search Microsoft Outlook (PST), Lotus Notes (NSF), and MS	
	Exchange mailboxes.	
Encryption	Choose to identify password protected files and how they will be	
	handled.	
Reporting	Select from available job logs.	

The next sections will identify the individual settings for each tab and a description of their functions.

Reference video: <u>Harvester 5.1 - Creating a Profile OCC</u>

GENERAL TAB

Harvester 5.1 Advanced Options - Part 1

	ave IS								
verview	General	Sources	Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting	
Job	Details	:							
J	ob Name:	ACME I	File Collection	n AB001					
Job File:		\\W/IN- File Col	J045IQG5DI lection AB00	PP\PinPoint_Raid\T 11.occ	ests\OCCH\Ne	wHarvServ_05\	HarvServer400	46_2323\Harvester	_occ\ACME
Ir	structions:								^
									~
Ir	n case of error	:							^
									~
I	hreads to use	Auto de	etect						•
B	un time optior			t Mode (Pause for re de (Errors will be logg)		
	ipting:								

Job Name: This is a required field and determines the value used in the [JobName] variable in the file target and job file path. The job name is normally used for the name of a custodian, copy project, or profile (used for multiple systems).

Job File: Current job profile file location. Job profiles are stored in the _occ folder by default; however, users can browse to other job locations by clicking *Open*.

Instructions: This is an optional description or user instructions that will be displayed in the job list, in a popup window when a job starts, and any time the "i" button is clicked during the run

In case of error: This is an optional field that is displayed when the job starts and again after a job completes if there were errors. It provides contact information for the project manager.

Number of Threads to Use: This option allows you to set a specific number of threads to use for simultaneous copies. If set to **Auto**, the number of threads used will match the number of processors on the machine running the job up to the *MAX_THREADS* value set in the *occ_shell.ini* file in the application directory.

NOTE: You will see diminishing returns when the thread count is set higher than the limits imposed by the system's input and output channels. However, Harvester is designed to limit the impact of these conflicts and to allow for high throughput even on overloaded I/O channels.

Data Assessment Mode:

Checking this box will stop the job after enumeration so that inventory reports can be generated without the data actually being copied, but leave it in a state where it can be resumed and the files can be copied at a later time.

Run in Silent Mode: Errors that can occur during a project will be logged and this option can often prevent the job from stalling while waiting for a user response (i.e. click the **Ok** button).

Scripting: On occasion, Harvester users would like to launch a job from another application or choose to start a process when a job starts or is finished. This can be accomplished using the scripting options and is covered in detail in this help file.

SOURCES TAB

Data Sources

Sources:	Keyword Filters File Filters Encryption	Reporting
*		T I
Use shace Apply filte		Add a folder Add a folder Add a file Add all logical drives Add documents folder for logged in user Add documents folders for all local users Add an IMAP email account Add a Goegle Drive Account Add a One Drive Business Account Add a One Drive Account Add a DropRox account Add a Box account Add a Box account

The data sources window can contain references for drives, directories, individual files or file lists. There are several selection methods available. Click **Add a Source** to access the following options:

- 1. Add a folder allows users to browse to individual folders.
- 2. *Add a file* is a special file picking window that allows users to select individual files without altering the file time stamps.
- Add a file list allows users to select a file list that contains path and filenames or a list of directories. Additional formatting details are listed in the Selecting Data Sources – File List section below.
- 4. *Add email list* allows users to select a file containing entry IDs and the paths to their respective email stores in order to extract individual emails already identified by other software or by a previous run of Harvester.
- 5. *Add all logical drives* inserts the [LDrive] variable that will result in Harvester searching all local logical drives (i.e. C:, D:,E:,)
- 6. *Add all mapped network drives* inserts [MDrive] variable that will result in Harvester searching all locally mapped network locations.
- 7. *Add account folder for logged in user* inserts the [UserAccount] variable that will result in Harvester locating and searching the user account folder for the logged in user.
- 8. *Add documents folder for logged in user* inserts [UserFolder] variable that will result in Harvester locating and searching the documents folder for the logged in user.
- 9. *Add documents folders for all local users* inserts [UserFolders] variable that will result in Harvester locating and searching the *documents folders of all user accounts on the system.*
- Add IMAP Account Inserts [IMAP=] variable and prompts user to enter criteria for an individual IMAP account. User will need to provide 1) IMAP Server Name 2) Email Account 3) Password 4) Port and 5) Encrypted connection setting.
- 11. Add Microsoft Exchange Account Inserts [EXCH=] variable and prompts user to enter criteria for the web 1) URL 2) User Name, and 3) Password. This option will directly connect to an individual Microsoft Exchange account. It differs from 'Search connected Exchange mailbox' in Email Filter options which uses Microsoft Outlook via MAPI connection
- 12. *Users can drag and drop* files, folders, or drive letters into the Sources field from Windows Explorer. Drive letters and individual emails can also be dragged and dropped to the Sources field from Outlook.
- 13. Selecting the checkbox *Prompt user for additional data sources* will result in Harvester displaying the *ESI "Easy" Vault* window. This is commonly used when distributing self-collection kits or jobs from a legal hold notice so custodians can select sources.
- 14. *Add Google Drive Account* inserts GOOGLEDRIVE into the Sources box. This option will connect to an individual Google Drive account. Account login prompts will appear once the job has been started.

- 15. *Add One Drive Business Account* inserts ONEDRIVEBUSINESS into the Sources box. This option will connect to an individual One Drive Business account. Account login prompts will appear once the job has been started.
- 16. *Add One Drive Account* inserts ONEDRIVE into the Sources box. This option will connect to an individual One Drive account. Account login prompts will appear once the job has been started.
- 17. *Add Dropbox Account* inserts DROPBOX into the Sources box. This option will connect to an individual Dropbox account. Account login prompts will appear once the job has been started.
- 18. *Add Box Account* inserts BOX into the Sources box. This option will connect to an individual Box account. Account login prompts will appear once the job has been started.

NOTE: Only a single Cloud source (#14-18 document repositories listed above) may be added per job. *Multiple additions of Cloud sources will be ignored*.

Files and folders below NTFS reparse points such as junction points, symbolic links, and mount points are not accessed or collected by Harvester. If Harvester encounters a folder with the reparse attribute, it will place an entry in a log in the logs folder

(*mountpointss.log*, *symlinkss.log*). Reparse points can point to a non-existent source because the operating system does not check to see if the source exists. Harvester does not treat symbolic links as folders or files due to these possibilities.

- A mounted drive can contain a symbolic link to a path that also exists on the examiner's machine, leading to the copying of irrelevant data
- A symbolic link can contain a reference to a folder higher in its own folder hierarchy, causing an infinite loop.

NOTE: Files and folders below NTFS reparse points may be accessed and collected by Harvester by changing settings in the **occ_shell.ini**. Located in the **bin** folder, the Harvester **occ_shell.ini** can be accessed with a text editor (such as Notepad), and changed. Changing the **FOLLOW_SYM_LINKS** field from **0** to **1** and saving the document will allow Harvester to follow symbolic links, mount points, and junction points.

Selecting Data Sources - File List

File lists generated from full text search engines, litigation support databases and computer forensic software can easily be imported using the Add a file List option. When relevant files or directories are identified, the file list option provides an alternative to manually selecting or dragging and dropping directories into the data sources field.

By selecting the *Add a file list* option, you will be able to browse to the location and select the list to be used. A file list can be any text file (.txt, .csv, .log), so long as the full file path or folder path is the first field in a tab-delimited text file. The list file can contain one file path or directory per line.

Individual files

c:\Documents and Settings\Jon\Desktop\PGP Source\HD\Docs\Articles - Forensic\DCFL Request Letter Format (12 Jun 00).pdf

c:\Documents and Settings\Jon\Desktop\PGP Source\HD\Docs\Articles - Forensic\Digital Evidence Standards (Public).pdf

c:\Documents and Settings\Jon\Desktop\PGP Source\HD\Docs\Articles - Forensic\Digital forensics of the physical memory.doc

Individual directories

c:\Documents and Settings\Jon\Desktop\PGP_Source\HD\Docs\Articles\

c:\Documents and Settings\Jon\Desktop\PGP_Source\HD\Docs\Articles\

\\HSGT-01\shares\sales

\\HSGT-01\shares\marketing

Using _errors log as file list

If errors are encountered, they are written to a file called **_errors.log**. This log can be used as a file list, which will allow you to reprocess files that resulted in errors during a run. This option is especially useful when files are in use and can't be copied. A common use would be to use the error log to copy open files once they are closed. To process an error log, select the Add a file List option, browse to its location and select **Open**. If you use the same target folder as the original run, Harvester will reattempt to copy any files that could not be copied previously.

Variables

[LDrive]

This variable (with the brackets) indicates that the program should search all logical drives that are connected to the computer. This includes flash drives, CDs, internal hard drives and RAID devices. It does not include network shares or the device that the Harvester software is running from or copying to.

[MDrive]

This variable (with the brackets) indicates that the program should search all mapped network drives. This includes all drive letters that are mapped to a network location (ex: P:\ (\\netshare\files\johndoe1)). It does not include the drive that the Harvester software is running from or copying to.

[PROMPT]

This variable (with the brackets) indicates that the program, when run, should prompt the user to drag and drop source files, folders and emails into the ESI Vault window. Users can also select **Prompt user for additional sources**, which eliminates the need for the [PROMPT] variable. Using [PROMPT] as a source allows you to define specific sources, as well as requires the user to specify additional sources at run time. The ESI vault window no longer pops up if no sources are specified

[UserFolder] and [UserFolders]

The **[UserFolder]** variable can be used as a source to add the logged in user's My Documents folder as a source. **[UserFolders]** can be used as a source to add all accessible My Documents folders.

File lists generated from full text search engines, litigation support databases and computer forensic software can easily be imported using the **Add List** option. When relevant file directories are identified, the file list option provides an alternative to manually selecting or dragging and dropping directories into data sources.

Drag and Drop Source

Files, folders, and Outlook emails can be dragged and dropped into the **Source** window, similarly to the **ESI** "*Easy Vault*" Vault detailed below.

ESI Easy Vault

As stated in the last section, the Harvester ESI Vault is commonly used when distributing selfcollection kits or jobs launched from Harvester Server for legal hold notice. By providing this simple interface and instructions specific to each job, custodians can easily identify items relevant to a matter. The ESI Vault interface is a window that supports dragging and dropping of the following types of items.

- Files
- Folders
- Emails (must be dragged and dropped from Microsoft Outlook or Lotus Notes)

Ð		Harvester ESI Vaul	it	- 🗆 🗙	
		Drag and drop relevant FILES, FOLD into this box	DERS and EMAILS		
	(You	can drag and drop from Windows, O	utlook, or Lotus Notes)		
-	Quit	Remove selected	🖋 All Don	e	

The ESI Vault can be used with local files and folders or network file shares. There are two scenarios that will launch the ESI Vault during a job:

Select 'Prompt user for additional sources' under 'Sources' tab

rrces: P:\emailstest	
1	
Prompt user for additional sources	Add a Source

One or more sources is set as [PROMPT]

PROMPT]	

Instruction defined in the Instructions field when creating jobs can be viewed by clicking the Information button.

्राई Harvester ESI Vault	
C:\Custodian Source\Marketing\BJones\Using Helix for Recovering from PC Hacks.pdf C:\Custodian Source\Marketing\BJones\Services.docx C:\Custodian Source\Marketing\HSlithers\CALENDARIO ONOMASTICO.docx C:\Custodian Source\Marketing\HSlithers\Foto.docx C:\Custodian Source\Marketing\HSlithers\Foto.docx C:\Custodian Source\Marketing\HSlithers\Foto.docx C:\Custodian Source\Seles\Hobury_HSlithers\Foto.docx C:\Custodian Source\Seles\Jobury_HSlithers\Foto.docx C:\Custodian Source\Seles\Jobury_HPotter\Pitfalls.pdf C:\Custodian Source\Seles\Jdoe\BH2005-Catch_Me_If_You_Can[1].ppt	
12 items in queue Cancel Remove	All Done

Any sources that the user adds can be removed by selecting the items and clicking the **Remove Selected** button. Pressing **Quit** will exit the collection job. Pressing **All Done** will add these sources to the job and process them along with any sources added in the *Sources* field at design time.

SOURCE SETTINGS

ource Settings:		
Source filtering options:	Search subdirectories Search ZIP files as folders	
	Apply filters to user-added folders	

Search Subdirectories: This option specifies whether subdirectories are searched. Deselecting this option will cause the program to only search for files in the root of the selected directories and ignore any subfolders it encounters.

Search Zip files as directories: This option filters file type, date, and extension, file name inclusion and file name exclusion filters within zip files.

Use shadow volumes when available: Checking this box will cause Harvester to attempt to create a shadow volume of each of your unique source volumes so that files that are in use can still be copied. Harvester needs to be run as Administrator on a Windows Vista or higher computer for this to succeed.

- Shadow Copy also known as Volume Shadow Service or VSS is a technology included in Microsoft Windows that allows taking manual or automatic backup copies or snapshots of computer files or volumes, even when they are in use. It is implemented as a Windows service called the Volume Shadow Copy Service.
- **Shadow Copy technology** requires Windows Vista or higher. It also requires the file system to be NTFS in order to create and store shadow copies. Shadow Copies can be created on local and external, or removable volumes by any Windows component that uses this technology, such as when creating a scheduled Windows Backup or automatic System Restore point.

Apply filters to user-added folders: This option specifies whether filters should be applied to folders added via **Drag-n-drop** to the ESI Vault by the user. This does not apply to individual files added to the vault.

Translate mapped drive letters to UNC paths: This option may be selected to translate source paths that are on mapped network drive paths to their UNC paths. The UNC path and file name will appear in the *filelist.txt* and *folderlist.txt* in the log folder. This is useful for providing unambiguous source locations for files residing on the network.

IMAP/EXCHANGE SOURCES

IMAP connection allows users to enumerate and collect directly from web based email accounts such as *Gmail, Outlook.com,* and *Yahoo*. Harvester searches these email accounts just as it would a local email store. For IMAP filters, see EMAIL FILTERS.

EXCHANGE connection allows users to enumerate and collect directly from an (online) Exchange server using web services. Harvester searches these accounts just as it would a connected Exchange account. For EXCH filters, see EMAIL FILTERS below. The difference between EXCH and Connected Exchange is EXCH is using web services to collect from the server directly, where Connected Exchange is using the connected Outlook Exchange account.

In Harvester's PPLM folder (bin\PPLM) there is a file named "imap_preset.txt", this file contains presets for common IMAP accounts such as Gmail, Yahoo, and Hotmail (Outlook.com). This presets file can be changed to match what the user commonly encounters and saved. When selecting IMAP from the sources button, the presets can be selected from the topmost drop down option.

NOTE: IMAP and EXCH enumeration and collection speeds may vary based on:

- Network speed and connectivity
- Internet speed and connectivity
- IMAP or Exchange server speeds, connectivity, and availability
- IMAP or Exchange server connection, access, and credential settings.

NOTE: For IMAP connections, IMAP needs to be turned on, and in some cases less secure application allowance will need to be turned on. For *EXCH* connections, Web Services will need to be turned on and the Web Services URL will be needed.

CLOUD SOURCES

Cloud source connections allow users to enumerate and collect loose files directly from web based cloud storage accounts such as Google Drive, OneDrive, OneDrive for Business, Box, and Dropbox.

TARGETS TAB

Harvester 5.1 Advanced Options - Part 2

The target path is used to specify where data matching your criteria will be copied. In addition to browsing to an external hard drive, host computer drive or network file share, there are several variables that can be incorporated into the paths. You can also drag and drop a folder location into the field to set the path location.

The variables listed in the table below can be manually entered or you can right-click on the field in the target path to display a drop down of the user friendly descriptions and have them automatically inserted as shown below:

VARIABLE NAME	DESCRIPTION	
[SCDrive]	The drive letter that Harvester is running from. (ie: D:)	
[JobName]	The name of this job.	
[CName]	The name of the computer running this job.	
[UName]	The username of the logged-in user running this job.	
[Date]	The date the job was run.	
[DateTime]	The date and time (to the second) that the job was run.	

Overview General Sources	Targets Keyword Filters File Filters Email Filters Encryption Rep	oorting	
 Write to folders Target Path: Logs Path: Write to VHD contain Container path: Target subfolder: Logs Path: Write to VeraCrypt Er Container path: Password: Target subfolder: 	C:\\New folder\Test vhd [files\ [SCDrive]\Logs\JobName]\{CName]\DateTime]\	Drive that Harvester is running on The job name for this job The name of the computer running this job The username of the user running this job The date this job was run (ie: 03-Jul-17) The date and time this job was run (ie: 3Jul17-114823) Cut (Ctrl + X) Copy (Ctrl + C) Paste (Ctrl + V) Delete Select All	Browse cation. Browse Browse Browse
Logs Path:			Browse
Target Settings:			

WRITE TO VHD CONTAINER FILE:

VHD, or Virtual Hard Drive, creates file containers for collected data, keeping all collected data in a single container file for easier transport. A VHD container file acts like any other kind of file, with the exception that it can also act as a hard drive in Windows. Files that have been copied to this virtual hard drive will stay inside the VHD file.

VHD creation is *automatic* when *Write to VHD file container* is used as a target.

NOTE: VHD is only supported in Windows Vista and higher. In Windows 8.1, Harvester must be run as Administrator in order to use VHD.

When choosing to copy files to a VHD container, Harvester creates a VHD file at the location specified and formats it like a hard drive. As the Harvester job enters the copy phase, the files are written to the VHD container instead of a target folder. After the job has run, the VHD file itself can later be mounted as a hard drive, either by Harvester or by Windows. The VHD Tools can be found under the Tools tab in the upper ribbon, in the Volume Tools section.

The maximum capacity of the VHD containers used by Harvester is 2 terabytes (2000 GB).

VHD Containers can be mounted to a drive letter by going to the Tools menu and selecting *Mount a VHD container to drive letter*, and mounted to a folder by selecting *Mount a VHD container to a folder*.

	lob Tools	Hel	p				
S- Make Batch File	Volume Shadow Tools +		Deactivate				
Job Tools Menu	Volume To		Create new VHD container Mount a VHD container to drive let	tter Targets	Keyword Filters	File Filters	Email Filt
🧻 Job Profi	l es 🕑 History		Mount a VHD container to a folder	·			
All Jobs	20 S.A.		Source sett				

After a VHD is mounted, the option to dismount a VHD container is available. VHD containers are automatically dismounted and detached at the end of the job and/or when Harvester is closed.

		-						
	lob Tools	Help)					
Make Batch File	Volume Shadow Tools *	VHD Tools		vate				
Job Tools	Volume To		Dismount	mounted VH	ID containe	er 📘		
Menu	- 1	1999 - 1999 1997 - 1999	Р	Overview	General	Sources	Targets	Keyword Fill
📑 Job Profi	les 🕑 History			Tar	not Dat	he		

Under Target Paths,

- *Container path:* This is the path to the VHD container file.
- **Target subfolder:** This is the path to the target subfolder within the VHD container file.
- *Logs Path*: This is the path to the logs folder, which can be placed in any preferred location.

view Genera	al Sources	Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting							
Target Pa	aths:													
⊘ Write to	folders													
Targ	jet Path:	[SCDrive]\T	arget\[JobName]\[I	CName]\[DateT	Time]\								ĺ	Browse
Logs	s Path:	[SCDrive]\L	ogs\[JobName]\[Cl	Name]\[DateTir	me]\								ĺ	Browse
 Write to 	VHD container		ll enter folder target	information wh	ien using a conti	aner target. In th	e event that t	he contain	er cannot	be created,	these setting	gs will provide a	i failover locatic	in.
0.000 (State of State				information wh	ien using a conti	aner target. In th	e event that th	he contain	er cannot	be created,	these setting	gs will provide a	i failover locatio	n. Browse
Con	VHD container	r file		information wh	ien using a contia	aner target. In th	e event that th	he contain	er cannot	be created,	these setting	gs will provide a	r failover locatic	5

NOTE: It is recommended that you provide Target and Logs paths in the *Write to folders* locations as well; these paths are used as a failover in case a VHD cannot be created at run time.

WRITE TO VERACRYPT CONTAINER FILE:

VeraCrypt creates encrypted file containers for collected data, keeping all collected data in a single encrypted container file for easier transport. A VeraCrypt encrypted container file acts like any other kind of file, with the exception that it can also act as a hard drive in Windows. Files that have been copied to this encrypted container file will stay inside the container file.

arget Paths:				
O Write to folders				
Target Path:	H:\CustodianColl	ection\[JobName]	\Target\[DateTir	ne Browse
Logs Path:	H:\CustodianColle	ection\[JobName]	Logs\[DateTime	Browse
Container path:	-			Prowoo
O Write to VHD contain				
Container path:				Browse
Target subfolder:				
and the second				Browse Browse
Target subfolder:	crypted Container Fi	le		
Target subfolder: Logs Path:		le ection/WCexample	.vc	
Target subfolder: Logs Path: Write to VeraCrypt En			.vc	Browse
Target subfolder: Logs Path: Write to VeraCrypt En Container path:	H:\CustodianColl		.vc	Browse

VeraCrypt container creation is automatic when *Write to VeraCrypt encrypted container file* is used as a target.

NOTE: Harvester must be run as Administrator in order to use VeraCrypt.

When choosing to copy files to a VeraCrypt encrypted container, Harvester creates a VeraCrypt file at the location specified, and formats it like a hard drive. As the Harvester job enters the copy phase, the files are written to the VeraCrypt container instead of a target folder. After the job has run, the VeraCrypt container file itself can later be mounted as a hard drive, either by Harvester or by Windows with VeraCrypt. The VeraCrypt Tools can be found under the Tools tab in the upper ribbon, in the Volume Tools section. The maximum capacity of the VeraCrypt containers used by Harvester is 2 terabytes (2000 GB).

VeraCrypt Containers can be created, mounted to a drive letter or dismounted by going to the Tools menu and selecting *Mount VeraCrypt container*.



Logs Path:

Several logs are created during a collection project and the Logs Path will set where these files are stored. In addition to browsing to a specific folder on a local drive or network file share, the above variables may also be used in the same manner as the Target Path.

NOTE: It is recommended to store logs in a separate path from the Target. **A different Logs folder must be created** for each new job to prevent appending data from different jobs, which will lead to serious issues.

Target Path:

The target path is used to specify where data matching your criteria will be copied. In addition to browsing to an external hard drive, host computer drive or network file share, there are also several variables that can be incorporated into the paths. You can also drag and drop a folder location from Windows Explorer into the field to set the path location.

The variables listed in the table below can be manually entered, or right-click on the in the target path field to display a drop down of the descriptions and have them automatically inserted as shown below.

Write to VHD contained	er file			
Container path:	[SCDrive]\VHDExample.vhd	Browse		
Target subfolder:	\[JobName]\[DateTime]_target			
Logs Path:	[SCDrive]\[JobName]\[DateTime]_logs	Browse		
◯ Write to folders				
Target Path:	[SCDrive]\VHDFailover\Target\[JobName] ^v	Drive that Harvester is running on		
Logs Path:	[SCDrive]\VHDFailover\Logs\[JobName]\[[
	* You can still enter folder target information	The name of the computer running this job		
	be created, these settings will provide a failo	The username of the user running this job		
		The date this job was run (ie: 05-Feb-15)		
avaat Cattinga		The date and time this job was run (ie: 5Feb15-141833)		
arget Settings:		Cut (Ctrl + X)		
		Copy (Ctrl + C)		
Mirroring Options:	Create full paths (mirrors folder structu Create root folders (creates a folder fo	ruste (etri - t)		
	✓ Create subdirectories	Delete		
	Copy empty folders	Select All		

VARIABLE NAME	DESCRIPTION			
[SCDrive]	The drive letter that Harvester is running from. (ie: D:)			
[JobName]	The name of this job.			
[CName]	The name of the computer running this job.			
[UName]	The username of the logged-in user running this job.			
[Date]	The date the job was run.			
[DateTime]	The date and time (to the second) that the job was run.			

<u>Logs Path:</u>

Several logs are created during a collection project and the Logs Path will set where these files are stored. In addition to browsing to a specific folder on a local drive or network file share, the above variables may also be used in the same manner as the Target Path.

NOTE: It is recommended to store logs in a separate path from the Target. **A different Logs folder must be created** for each new job to prevent appending data from different jobs, which will lead to serious issues.

Target and Logs Path Auto-Check:

Harvester has an Auto-Check feature that will cause the text of the *Target Path* and *Logs Path* to display in red if the respective paths will not translate to actual paths.

Mirroring Options:

Create Full Paths:

This allows the destination directory to contain a full path of all files and directories that are collected or copied. When selected, the option to *Create Root Folders* is also available.

Create Root Folders:

Checking this option will create a directory for the drive letter or UNC name of the source path. This is useful when the source consists of multiple drives or UNC paths, where each will have a folder containing the files and folders contained therein.

Create Subfolders:

This option is selected by default and matches the directories of the source files. If you would like to copy all source files into a single target folder with no subfolders, then you can deselect this option.

Copy Empty Folders:

This option specifies whether a folder will be created in the target when the source directory is empty or contained no matching documents.

Mirroring Options:	Create full paths (mirrors folder structure down to the root)
	Create root folders (creates a folder for the root drive letter)
	📝 Create subdirectories
	Copy empty folders
If two file names collide:	Rename the new file
	Overwrite the old file
	🔘 Do Nothing

If File Names collide:

• Do Nothing:

This ignores any files that already exist at the destination and does not include their counterparts in the source directory as responsive.

• Overwrite Existing Files: This option forces any files that already exist in the target folder to be overwritten.

• Rename Files on Collision: This option, when checked, will rename a file if a file by the same name already exists at the destination.

Keyword Filters Tab and File Filters Tab

KEYWORD FILTERS

Harvester 5.1 Advanced Options - Part 3

Keyword filtering is one of the most commonly used Harvester features. It is in this group of settings that users can perform targeted e-Discovery collections and filtering processes.

Overview General S	Sources Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting	
Keyword Set	ttings:						
	_						
Where to use k	key word searching:	🗌 Search e	oose files mail subjects a mail headers mail attachmer				
Automatic inclu	isions and exclusions:	Automatic	cally include er cally hit on non	file types from re: crypted files searchable attac the key word terr	hments		
Auto-match any	y files with these exter	nsions:					
If a match is ins	side an archive:	- 12	entire archive le file from the -	archive			

Harvester uses the superior search functionality provided by dtSearch. Many litigation support, computer forensics, and corporate IT professionals rely on dtSearch every day to rapidly and effectively search through large file collections.

Search loose files:

This option must be checked to enable key word filtering of what are commonly called *loose, native,* and *logical* files (i.e. Microsoft Word, Excel, PowerPoint, Acrobat PDF etc.).

• Search email subjects and bodies:

This option must be checked to enable key word filtering of email subjects/bodies.

- Search email headers: This option must be checked to enable key word filtering of email headers.
- Search email attachments:

This option must be checked to enable key word filtering of email attachments.

• Exclude non-searchable file types from results:

When checked, this option excludes all file types that cannot be key word searched except those listed in the *Exceptions* box below. By checking the *Exclude non-searchable file types* box, you are instructing Harvester to exclude any files that are not considered keyword searchable based on their file type (executable, graphics, etc.).

Automatically include encrypted files:

By checking the **Automatically include encrypted files** box, you are instructing Harvester to check to see whether any file of a type that can be encrypted (Office documents, PDF files, zip files, etc.) are, in fact encrypted before performing the keyword search and automatically issue a match for files that are encrypted (and also match all of the other non-keyword criteria).

Automatically hit on nonsearchable attachments:

By checking the *Automatically hit on nonsearchable attachments* box, you are instructing Harvester to consider any nonsearchable attachment (typically image files like jpeg or gif files) to be responsive and include the email in the results. This option is useful for collecting scanned documents of unknown format for later review. If you know the format, you can check the *Exclude nonsearchable file types* box and add the extension(s) that you wish to collect to the exceptions list below.

Archive Options (zip, rar, etc.):

If a key word hit appears in a file that is inside another (archive) file, you can either copy the entire archive file, or you can extract the file and create a folder structure on the target side named after the archive file that contained the hit as well as its internal folders.

INDEXING

Searching and copying data without indexing.

With neither Indexing option checked, Harvester will enumerate and copy all files with keyword hits but indexing and keyword hit highlighting will not be available. This is the fastest type of search.

Search terms:	key w/5 word	
* You can enter one search term	Thin* term	
per line or drag	discover*	
and drop a text file containing	file w/10 (Transfer OR Copy) mouse	
your search	gig*	
terms.	pin w/5 point switch	
	Harvester w/10 ((collection AND e-*) OR disco	very)
	monitor chrome	
	syntax w/5 correct	
	how w/2 (to AND hack)	
	Test my keyword syntax	
Search options:	Create key word index	
	Cache files in index	
	This is a slower process that creates larg for offline hit highlight viewing as well as created in Data Assessment mode.	
	Stemming (matches any form of the root wor	ds)
	Synonym (matches words with similar meani	ngs to the search terms)
	Phonic (matches words that sound similar to Synonym (matches words with similar meaning)	

When *Create key word Index* option is selected on its own, Harvester will create the keyword index from the copied files at the end of the run in order to save time and to make the hit highlighting independent of the source.

Search terms: * You can enter one search term	key w/5 word Thin* term	^
per line or drag and drop a text	discover* file w/10 (Transfer OR Copy)	
file containing your search	mouse gig*	
terms.	pin w/5 point switch	
	Harvester w/10 ((collection AND e-*) OR disco	very)
	monitor chrome	
	syntax w/5 correct how w/2 (to AND hack)	
	Test my keyword syntax]
Search options:	Chec	cked
	Cache files in index	- 1. d 1. d 1. d
	This is a slower process that creates larg for offline hit highlight viewing as well as created in Data Assessment mode.	
	Stemming (matches any form of the root word	
	Phonic (matches words that sound similar to Phonic (matches words that sound similar to	
	Synonym (matches words with similar meanir Fuzzy (allows for typos and misspellings)	Tolerance: 1

When **Create Index** and **Data Assessment** options are selected Harvester will create a keyword index in the logs path during the enumeration phase. This allows you to generate keyword hit reports without actually copying any files.

Checking Create Cache Files in I	ndex allows users to vie	ew offline document h	nit highlights.
----------------------------------	--------------------------	-----------------------	-----------------

Search terms:	key w/5 word Thin*	-
* You can enter one search term	term	
per line or drag and drop a text	discover* file w/10 (Transfer OR Copy)	_
file containing	mouse	_
your search terms.	gig* pin w/5 point	_
321110	switch Harvester w/10 ((collection AND e-*) OR discovery)	_
	monitor	- 1
	chrome syntax w/5 correct	
	how w/2 (to AND hack)	
	Test my keyword syntax	
Search options:	Create key word index Checked	
	Cache files in index	
	This is a slower process that creates large index files, but is n for offline hit highlight viewing as well as viewing hits from ind created in Data Assessment mode.	
	Stemming (matches any form of the root words)	
	Phonic (matches words that sound similar to the search terms)	
	Synonym (matches words with similar meanings to the search ter Fuzzy (allows for typos and misspellings) Tolerance: 1	msj

NOTE: Creating full-text indexes (1&2) before the collection phase rather than from the collected information will take longer than when Harvester creates indexes from the collected information. The indexes will also be larger as a result of caching the file contents into the indexes.

After full-text indexes are created during Data Assessment Mode:

- Review keyword hit totals
- Create keyword hit reports
- View keyword hit highlighting for documents and email

For example, Harvester can be used to identify and index files from a remote system or server that may be offline or unavailable while using keyword hit highlighting. Caching file contents in the index enables users to view the information, without the copied data present.

NOTE: Indexing all data for a Custodian will reduce enumeration speeds, but can be beneficial during review.

SEARCH TERM KEY WORD SYNTAX

Users can enter search terms and phrases as shown using one term per line. Harvester will **OR** the terms, which flags items as a match if they are true for any of the individual conditions. Individual words, phrases and many other variations can be used as next outlined in the keyword syntax options.

Overview General S	Sources Targets Keyword Filters	File Filters Er	mail Filters	Encryption	Reporting	
		ne nie nom me archi	ve			
Konword To	ma					
Keyword Te	1115					
Search terms:	holding finance* globe and ((operate* or motor) or purcha "Fairfax FL" "credit application" April w/2 2014 "Park Ave" Evict* aproval and (admin* or manage*) "Closing Sale Agreement"	se)				^
	Test and barrierd contain					~
Carach anti-	Test my keyword syntax					
Search options:	 Create key word index Cache files in index This is a slower process that creat for offline hit highlight viewing as to created in Data Assessment mode Stemming (matches any form of the row Phonic (matches words that sound sing) Synonym (matches words with similar) 	vell as viewing hits fr e. pot words) milar to the search te	om indexes erms)	ſŷ		
	Fuzzy (allows for typos and misspellin	gs) Toleranc	:e: 0 🗸			

Document keyword search supports Boolean search requests:

A Boolean search request consists of a group of words, phrases or macros linked by connectors such as *AND* and *OR* that indicate the relationship between them. Some examples include:

Search Request	Meaning
approval and management	both words must be present
approval or management	either word can be present
approval w/5 management	Approval must occur within 5 words of management
approval not w/12 management	Approval must occur, but not within 12 words of management
approval and not management	Only approval must be present
name contains smith	the field name must contain smith
approval w/5 xfirstword	Approval must occur in the first five words
approval w/5 xlastword	Approval must occur in the last five words

If you use more than one connector (and, or, contains, etc.), you should use parentheses to indicate precisely what you want to search for.

For example: *approval* and *management* or *withdrawn* Could mean (*approval and management*) or *withdrawn* Or *approval and (management or withdrawn)*

For best results, always enclose expressions with connectors in parenthesis. An example is: *(Approval and Management) or (name contains Smith)*

If you use more than one word as a search term, such as the name of a company or business (i.e. Apple Tree), you should use quotations to indicate precisely what you want to search for. For example, *Apple Tree* would become *"Apple Tree"*.

NOTE: With the exception of special characters, punctuation is treated as a space.

Search terms may include the following special characters:

Character	Meaning
?	matches any character
=	matches any single digit
*	matches any number of characters
%	fuzzy search
#	phonic search
~	stemming
&	synonym search
~~	numeric range

To enable fuzzy searching, phonic searching, synonym searching or stemming for <u>all</u> search terms, check their corresponding boxes.

Stemming: This option will find grammatical variations of the listed key words. A search for *apply* with this option checked would also find *applies, applying,* or *application*. **NOTE:** Checking this box will apply stemming to <u>all</u> terms in your list. If you need to apply stemming to only specific words in your list, add a tilde (~) after them in the key word list: *apply*~

Phonic Search: This option will find words that sound like the key word terms you have listed. A phonic search for *Smith* would also return instances of *Smythe*.

NOTE: Checking this box will apply phonic searching to <u>all</u> terms in your list. If you need to apply phonic searching only to specific words in your list, add a pound (#) character to them in the key word list: *Smith#*

Synonym Search: This will search for word synonyms for any of your search terms using a comprehensive English language thesaurus or user-defined thesaurus terms. For instance, a synonym search for **help** would also return **assist**.

NOTE: Checking this box will apply a synonym search to <u>all</u> terms in your list. If you need to apply synonym searching only to specific words in your list, add an ampersand (**&**) character after the word in the key word list: *help***&**

Fuzzy Searching: This option finds words even if they are misspelled. A search for *alphabet* with a fuzziness of 1 would also find *alphaget*. With a fuzziness of 3, the same search would find both *alphaget* and *alpkaget*. Fuzzy searching sifts through scanning and typographical errors. You can adjust the level of fuzziness from 1 to 10. (Usually values from 1 to 3 are best for moderate levels of error tolerance.)

NOTE: Checking this box will apply fuzzy searching to <u>all terms</u> in your key word list. If you need to apply fuzzy searching only to certain terms in your list, use the percent (%) sign within the word to indicate the first position where an error should be tolerated and repeat the sign for the number of errors that are tolerable from that point: *a%lphabet* would hit on *alphaget* and *amphabet*. *a%%/lphabet* would hit on these as well as *amphaket*.

Proximity Searches: Use the *W/N* connector in a search request to specify that one word or phrase must occur within N words of the other. For example, *approval w/5 management* would retrieve any document that contained approval within 5 words of management. The following are examples of search requests using W/N:

(approval or management) w/5 administrator (approval w/5 administrator) w/10 management (approval and administrator) w/10 management

Nested Searches

(this or that) w/10 (((work* and play*) or (sink w/2 hole)) or (quick w/1 sand))

This or That must be within 10 words of both work and play

or

This or That must be *within 10 words* of sink (which must be within 2 words of the word hole) or

This or That must be within 10 words of quick (which must be within 1 word of the word sand)

Field Searches:

When indexing a database or other file containing fields, dtSearch saves the field information so you can perform searches limited to a particular field. For example, if you index an Access database with a *Name* field and a *Description* field, then you could search for "apple" in the Name field as below:

• (Name contains apple)

In addition to databases, dtSearch automatically recognizes metadata in supported file types. For a list of supported metadata formats, see "*What file formats does dtSearch support*" at <u>http://support.dtsearch.com</u>

Field searches can be combined using AND, OR, and NOT

• (City contains (Portland or Seattle)) and (Address contains (Washington))

The parenthesis is necessary to ensure that dtSearch interprets the search request correctly. More examples include:

- (TO contains "example@email.com")
- (ATTACHMENTS contains "Test.xlsx")

AUTOMATIC RECOGNITION SEARCHES:

Automatic recognition of dates:

Date recognition looks for anything that appears to be a date, using English-language months (including common abbreviations) and numerical formats. Examples of date formats that are recognized include:

- January 15, 2006
- 15 Jan 06
- 2006/01/15
- 1/15/06
- 1-15-06
- The fifteenth of January, two thousand six

To search for a date, put "date()" around the date expression or range. For example, to find any of the expressions above near the word "apple", search for:

• date(jan 15 2006) w/10 apple

To search for a range of dates near the word "apple", search for:

• date(jan 10 2006 to jan 20 2006) w/10 apple

Automatic recognition of email addresses:

Email address recognition looks for text that follows the syntax for a valid email address (example: *sales@pinpointlabs.com*). This makes it possible to search for a specific email address regardless of the alphabet settings for the "@" and "." characters, as well as any other punctuation that may be present in an email address.

To search for an email address, put "mail()" around the address. The "*" and "?" wildcard expressions are supported inside the () marks. Examples include:

- mail(sales@pinpointlabs.com)
- mail(sa*@pinpointlabs.com)

Automatic recognition of credit card numbers:

Credit card number recognition looks for any sequence of numbers that appears to satisfy the criteria for a valid credit card number issued by one of the major credit card issuers (MasterCard, Discover, Visa, etc.). Credit card numbers are recognized regardless of the pattern of spaces or punctuation embedded in the number. Examples include:

- 1234-5678-1234-5678
- 1234567812345678
- 1234 5678 1234 5678

Numerical tests used by the credit card issuers for card validity are used to exclude sequences of numbers that are not credit card numbers. However, these tests are not perfect and so the credit card number recognition feature may pick up some numbers that are not really credit card numbers.

To search for a credit card number, put "creditcard()" around the number.

creditcard(1234*)

Using keyword filters to extract from MBOX and DBX files:

Using dtSearch in Harvester, it is possible to extract EML files from MBOX and DBX mail stores. Extracting messages from MBOX and DBX files requires the use of keywords, as Harvester does not natively open and search these files. In the "Keyword Filters" tab, check "Search loose files" in the *Where to use key word searching* sections and select "Extract the file from the archive" in the *If a match is inside an archive:* section. To get messages matching certain criteria (date range, email addresses, etc.), use the automatic recognition searches listed above. To get all messages use the following term:

a, *e*, *i*, *o*, *u*

Test My Key Word Syntax:

Clicking on this button checks the syntax of the search terms entered. Errors will cause the search not to run. Warnings tell you that there is some ambiguity in the term and tell you how the search engine will assume you want the search run. If this matches your intentions, you can safely ignore the warning

NOTE: If there is a fatal error in the key word syntax, Harvester will prompt you with the

string(s) of syntax that are incorrect and warn you it will not be able to keyword search correctly with the error. For more information and how to fix the error, click the *Test My Key Word Syntax* button.

FILE FILTERS

<u>Date Filter</u>

Users can optionally add a date range filter for files. You can apply the date range to multiple time stamps by clicking the appropriate check boxes.

Over	view	General	Sources	Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting	
4	Dat	e Rang	e Searc	hing:						
		Search for fil	les in this dat (mm/d	e range: d/yyyy)	06/01/2013 ▼ to ✓ Search the date ✓ Search the date Search the date	created last modified	•			
4	File	Type a	nd Exte	ension	Filters:					
		Extensions/t Extension lis	ypes to find:	(Email Fil	es],[Office Documen	ts],[Images]				File Types Browse
		LACENSION IIS	(IIIC.		de these extensions a t copy files with susp					DIOWSE
		Other file typ	e filters:	🗌 Skip s	ystem files ystem folders emporary files and fol	ders				

Created and modified times also apply to the archived files within a zip file if you have checked the *Search zip files as directories* box in the Sources tab.

One or more boxes must be checked for the date range to apply.

- Creation Dates
- Last Modified Dates
- Last Accessed Dates

NOTE: This applies to loose files only – not to emails. Email date ranges may be set in the email option area.

Extensions/Types to find

Harvester allows users to filter the data collected by file extension, file signatures, file type definitions and categories. Users can specify individual file extensions, file definitions (signatures) or categories, or create custom categories. Choose whether to include or exclude files with those file extensions in the dropdown box.

File Type and Exte	nsion Filters:	
Extensions/types to find:	[Email Files],[Office Documents],[Images]	(E.Ie.Lypes)
	Email Files (7)	C.C. Marily Mari
Extension list file:	 ✓ Office Documents (32) 	
	Disk Images (3)	
	Video Files (15)	
	Executable Files (4)	
Other file type filters:	Printer Files (6)	
	Archives (12)	
	History and Settings Files (12)	
		*

The following items can be specified:

- File extensions xls, xlsx, doc, docx, ppt, pptx, pdf, pst, ost, eml, msg (specify with a comma delimiter). Users can also use file signatures (headers) instead of extensions by entering the name of the file definition in brackets with a tilde (~) character ([~MS Word] for example).
- File Types ([Office Documents],[Email Files],[Archives]). If users would like to use file signatures (headers) or categories instead of extensions, they can click File Types and choose an entire category or click the dropdown icon for the individual file types.

File Type and Exte	nsion Filters:	
Extensions/types to find:	[Email Files],[Office Documents],[Images]	(E.Ie.Types)
Extension list file:	✓ Email Files (7)	^
	✓ Office Documents (32)	
	Disk Images (3)	
	Video Files (15)	
	Executable Files (4)	
Other file type filters:	Printer Files (6)	
	Archives (12)	
	History and Settings Files (12)	~

NOTE: Files extensions without header signatures (ie: .csv, .txt, .rtf) must be added manually to be searched.

To select a category, click on the category and the *Pick Category* button.

Extensions/types to find:	[Email Files],[Office Documents],[~Alcohol 120% CD Image]	File Types
Extension list file:	🖻 🗹 Email Files (7)	4
	Office Documents (32)	
	🎍 🔲 Disk Images (3)	
	Alcohol 120% CD Image	
	Ghost Image	
Other file type filters:	Nero CD Compilation	
	Video Files (15)	
	Executable Files (4)	

This will automatically specify all files listed in the *Individual File Types in Category* column with a single [Category Name] reference. Choosing file types for header signature filtering will result in slower search speeds than file extensions alone because the file has to be opened during the search in order to read its header information.

Extension List File

Additionally, in the *Extension List File* section, you can use a text file containing multiple file extensions by browsing to the file using the button next to the field.

Exclude system files (with System attribute set): This option will filter out files which the file system (MFT/FAT) has flagged as system files. This is most commonly used in combination with the deNISTing option to further reduce the files collected.

Exclude system folders (System attributes set): This option will filter out folders (and included files) which the file system (MFT/FAT) has flagged as system folders. This is most commonly used in combination with the deNISTing option to further reduce the files collected.

Exclude temp files (with Temp attribute set): This option will filter out files which the file system (MFT/FAT) has flagged as temporary files. This is most commonly used in combination with the deNISTing option to further reduce the files collected.

ONLY SEARCH FILES MATCHING THESE PATTERNS

File Name inclusion options allow you to specify patterns that will be used to include only files or folders based on the names or patterns that you specify.

Only search files matching these patterns:	users\thomas\	*
Exclude any files matching these patterns:		+
Exclude any nes matching these patients.		*

Multiple patterns can be added if needed, one per line. The syntax options are listed below.

Supported wildcard characters:

? – Any single character

* - Zero or more characters

- Any single digit

[List of characters] – Any character in the list

[List of characters] - Any character not in the list

List syntaxes may contain either a simple list (**[1a7v]**) or a range indicator (**[0-9]** or **[a-f]**. **NOTE:** These filters apply to whole paths. Comparisons are case insensitive. At time of comparison, all folders end with a \ character

EXCLUDE ANY FILES MATCHING THESE PATTERNS

Exclusion options allow you to specify patterns that will be used to exclude files or folders based on a mask.

Only search files matching these patterns:	l	*
Exclude any files matching these patterns:	\System32\	*
		Ŧ

Multiple patterns can be added if needed, one per line. The syntax options are listed below.

Supported wildcard characters:

? – Any single character
* - Zero or more characters
- Any single digit

[List of characters] – Any character in the list

[List of characters] – Any character not in the list

List syntaxes may contain either a simple list ([1a7v]) or a range indicator ([0-9] or [a-f].

NOTE: These filters apply to whole paths. Comparisons are case insensitive. At time of comparison, all folders end with a \ character

Deduping and Hash List Filtering

Exclude duplicates: This option filters out duplicate files within the current job. This process compares the MD5 hash value of each file and if a duplicate is identified, it will not be copied and an entry will be made in the exclusion log. It does not compare files within archives (i.e. **Zip**, **RAR,TAR, Bzip**, **Gzip**) or mail stores. An option to de-duplicate messages in Microsoft Outlook PST files is available under the Email options.

Use Hash List Filter (deNIST): This option allows users to filter the source files against the NIST (National Institute of Standards and Technology) NSRL hash list and other included defined hash lists. The hash lists used for comparison are located in the \bin_hashlist directory. Any number of hash lists can be included. If a match is found in one of the hash lists, the file is logged along with the hash list that contained the matching hash.

Use Hash List Filter on emails: This option indicates that that the hash value that is listed in the NSRL or other defined hash lists will be used to filter emails in addition to loose documents.

Use Hash List Filtering on Email Attachments: This option indicates that the hash value that is listed in the NSRL or other defined hash lists will be used to filter an email's attachments in addition to filtering loose documents.

Exclude Matching Hashes: This option indicates that files with a hash value that is listed in the NSRL or other defined hash list should NOT be copied.

Include Matching Hashes: This option indicates that files with a hash value that is listed in the NSRL or other defined hash lists are the ONLY files that will be copied.

HASH LISTS

The Hash filtering and deNISTing options are useful in various applications.

- DeNIST using the MD5 NIST list to cull unnecessary data from your collection
- Add the hashlist from a previous job to the **_hashlist** folder and Exclude matching hashes for incremental backups
- Add the hashlist from a previous job to the **_hashlist** folder to copy the same data to another, or multiple computers using the **Include matching hashes** option
- Single or multiple hashlists can be used simultaneously in the *_hashlist* folder

Email Filters Tab

OUTLOOK EMAIL FILTERS

Email Filters allow users to search and copy messages from loose Outlook PST's and Exchange OST's without using Outlook or a MAPI connection. It also allows you to search email sources that are connected through Outlook via MAPI. When email sources are encountered during enumeration, Harvester automatically starts new threads to handle separate mail stores and reserves one thread to continue processing individual loose files. The number of threads is set to 'Auto' by default based on the system hardware; however, it can be customized by the user.

Overview	General	Sources	Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting	
⊿ Loo	se PST	/OST Er	nail Sea	rching:					
			il accounts k PST/OST	(IMAP/Exchange files	e/GMail)				
	Search for	these addres	sses/domains						^
				Exclude the lis	sted addresses.	/domains			×
	Search fold	ders with the:	se patterns:						\$\langle\$
	EXCLUDE	folders with I	these patterns	:					^
	Search for	emails in this (mr	: date range: n/dd/yyyy)	☐ 1/ 1/1990 ☐ Search attach	_ /	/31/2038 💌			
	Deduplicat	ion options:		🗌 Remove dupli	cate emails				
	Processing	i type:		 Single target p Collate source Generate loos 	s into single ta				

Selecting the corresponding box expands the options for each section.

PST EMAIL SEARCHING - SEARCH LOOSE OUTLOOK PST/OST FILES

Harvester 5.1 Advanced Options - Part 3

Search for these addresses/domains (To/From/CC/BCC): You can enter or paste a list of items that are going to be used in the filter. There should be one entry per line as shown in the image. Names, domains or email addresses may be entered. When a domain only is entered, all emails from that domain will be selected.

Exclude emails with matching addresses: This option indicates whether emails that are found matching the *Search for these addresses/domains* (To/From/CC/BCC) filter should be included in the results or excluded from them.

Search folders with these patterns: This option allows you to enter the names of the folders in the PST to be searched. Use only one entry per line as shown in the image. Leaving this field blank will search all folders. This field supports the following wildcard characters:

- * matches any number of characters
- ? matches any single character
- # matches any single digit

Lo	ose PST/OST Email Sea	rching:
	Search remote email accounts ((IMAP/Exchange/GMail)
	Search loose Outlook PST/OST	
	Search for these addresses/domains:	@aol.com support@pinpointlabs.com
		Exclude the listed addresses/domains
	Search folders with these patterns:	Inbox
	EXCLUDE folders with these patterns:	Sent
	(roro (dd /umu))	 ✓ 1/ 1/2013 ▼ to 12/31/2015 ▼ ✓ Search attachment dates
	Deduplication options:	☑ Remove duplicate emails
	Processing type:	Single target per source Collate sources into single target PST Generate loose email files from source:

EXCLUDE folders with these patterns: This option allows you to enter the names of the folders in the PST that should NOT be searched.

This includes subfolders, so including *SKIP_THIS_FOLDER* in the exclusion patterns would skip any folder with *SKIP_THIS_FOLDER* (case insensitive) appearing in the path.

Both **\SKIP_THIS_FOLDER** and **\Inbox\MyStuff\SKIP_THIS_FOLDER** would be excluded. This field also supports the following wildcard characters:

- * matches any number of characters
- ? matches any single character
- # matches any single digit

Start Date/Ending Date: These fields provide the option to narrow the emails extracted by the date range specified. This applies to emails only. The dates are entered in *MM-DD-YYYY* format.

Apply date range search to attachment file dates: Selecting this option applies the email date range filter to email attachments where applicable.

NOTE: Emails received via Exchange retain their original creation dates and modification dates, but attachments received via POP will have these dates set to the received time of the message.

Remove duplicate emails: When this option is checked, messages are compared across all PST files in the listed data sources. An MD5 hash value is calculated for each message and compared to all messages that have been processed in the current job. As duplicate messages are encountered they are flagged and written to the **_duplicate_email.log**. The MD5 hash value is based on the following values: *Sender, Recipient, CC, BCC, Date, Subject, Email Body, Attachment Names, Attachment Sizes.*

Processing Type: This option determines the format for the target copies of the filtered messages.

- **Create single target per source:** This will create one target PST named the same as the original containing copies of the filtered messages. The new PST will reside in a path in the target according to the target path settings in **General Options**.
- **Collate sources into a single target PST:** This option will combine all source PSTs into the target specified in the **Process Target** path.
 - **Process Target:** Click the **Browse** button next to this field to specify the target PST. If no PST path is chosen, a PST file called **collated.pst** in the logs path will be used. This field supports the following variables:

[SCDrive] – The drive letter that Harvester is running from.
[JobName] – The name of this job.
[Logs] – The path set up for logs.
[Target] – The path set up as the target for this job.
[CName] – The name of the computer running this job.
[UName] – The username of the logged-in user running this job.
[Date] – The date the job was run.
[DateTime] – The date and time (to the second) that the job was run.

• *Generate loose email files from sources:* This option allows you to export responsive emails to loose message files.

Export Type: This option allows you to specify the format for the extracted messages. A copy of each email matching the filtered criteria will be saved in the chosen format and the subject is used as the filename. The messages will be stored in the same folder structure from the PST and the parent level folder is named after the source PST. *Only* **.msg** and **.eml** files will retain attachments. The following loose message types are supported:

- Unicode Outlook Message (msg) files
- Raw RFC822 (.eml) files

EMAIL OPTIONS - MICROSOFT EXCHANGE/ACTIVE EMAIL/DRAG & DROP FILTERING

erview	General	Sources	Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporting			
Eve	hango/	Mounto	d DCT /I	Drag-and-D	ron Coar	china					
				-	Top Sear	unny.					
				OST mailbox blic Folders							
			tlook PST f								
	t										
	Search for	these addres	ses/domains		111						
				support@pinpoir	ntlabs.com						
				10							
				Exclude the listed addresses/domains							
	Search fold	lers with thes	e patterns:	Inbox							
				57							
	EXCLUDE	folders with t	hese patterns	Sent							
				2.000.00203							
				13 12			3				
	Search for	emails in this (mn	date range: n/dd/www)	1/ 1/2013		2/31/2015 💌					
			,,,,,,,	📝 Search attach	nment dates						
	Deduplicati	ion options:		📝 Remove dupli	icate emails						
	Processing	type:		🧿 Single target p							
				Collate source Generate loos							
				Concrete toos	ic cindii files fio	m source.					

These options allow you to apply filtering to connected MS Exchange Mailboxes, PST files that are actively mounted in the user's Outlook, or connected Exchange Public Folders.

Search Connected Exchange Mailbox:

When checked, this searches and exports the resulting responsive messages from the default Exchange Mailbox connected to by the logged in user's Outlook.

Search Connected Exchange Public Folders:

When checked, this searches and exports the resulting responsive emails from Exchange Public Folders that are connected to the logged in user's Outlook.

Search Mounted MS Outlook PST Files:

When checked, this searches and exports the resulting responsive emails from mounted Outlook PST Files.

Search for these addresses/domains (To/From/CC/BCC):

You can enter or paste a list of items that are going to be used in the filter. There should be one entry per line as shown in the image. Names, domains or email addresses may be entered. When only a domain is entered, all emails from that domain will be selected.

Exclude the listed addresses/domains:

This option indicates that emails found matching the **Search for these addresses/domains** (*To/From/CC/BCC*) filter should be excluded from the search results.

Folders to Search: This option allows you to enter the names of the folders in the PST to be searched. Use only one entry per line as shown in the image. Leaving this field blank will search all folders. This field supports the following wildcard characters:

- * matches any number of characters
- ? matches any single character
- # matches any single digit

Folder Exclusion Patterns: This option allows you to enter the names of the folders in the PST that should NOT be searched. This includes subfolders, so including *SKIP_THIS_FOLDER* in the exclusion patterns would skip any folder with *SKIP_THIS_FOLDER* (case insensitive) appearing in the path. Both *SKIP_THIS_FOLDER* and *Inbox\MyStuff\SKIP_THIS_FOLDER* would be excluded. This field also supports the following wildcard characters:

- * matches any number of characters
- ? matches any single character
- # matches any single digit

Start Date/Ending Date: These fields provide the option to narrow the emails extracted by the date range specified. This applies to emails only. The dates are entered in *MM-DD-YYYY* format.

Apply date range search to attachment file dates: Selecting this option applies the email date range filter to email attachments where applicable.

NOTE: Emails received via Exchange retain their original creation dates and modification dates, but attachments received via POP will have these dates set to the received time of the message.

Remove duplicate emails: When this option is checked, messages are compared across all PST files in the listed data sources. An MD5 hash value is calculated for each message and compared to all messages which have been processed in the current job. As duplicate messages are encountered they are flagged and written to the **_duplicate_email.log**. The MD5 hash value

is based on the following values: Sender, Recipient, CC, BCC, Date, Subject, Email Body, Attachment Names, and Attachment Sizes.

Processing Type: This option determines the format for the target copies of the filtered messages.

Create single target per source: This will create one target PST named the same as the original containing copies of the filtered messages. The new PST will reside in a path in the target according to the target path settings in **General Options**.

Collate sources into a single target PST: This option will combine all source PSTs into the target specified in the **Process Target** path.

Process Target: Click the **Browse** button next to this field to specify the target PST. If no PST path is chosen, a PST file called **collated.pst** in the logs path will be used. This field supports the following variables:

[SCDrive] – The drive letter that Harvester is running from.
[JobName] – The name of this job.
[Logs] – The path set up for logs.
[Target] – The path set up as the target for this job.
[CName] – The name of the computer running this job.
[UName] – The username of the logged-in user running this job.
[Date] – The date the job was run.
[DateTime] – The date and time (to the second) that the job was run.

Generate loose email files from sources: This option allows you to export responsive emails to loose message files.

Export Type: This option allows you to specify the format for the extracted messages. A copy of each email matching the filtered criteria will be saved in the chosen format and the subject is used as the filename.

The messages will be stored in the same folder structure from the PST and the parent level folder is named after the source PST. Only **.msg** and **.eml** files will retain attachments. The following loose message types are supported:

- Unicode Outlook Message (msg) files
- Raw RFC822 (.eml) files

EMAIL OPTIONS - LOTUS NOTES

Email options allow users to filter Lotus Notes (NSF) files. Filtering criteria can be applied to the header (i.e. email addresses, domains and display name), subject, message body and attachments.

Overview	General Sources Targets Keyw	ord Filters File Filters Email Filters	Encryption	Reporting			
⊿ Lot	us Notes Searching:						
	Search loose Lotus Notes NSF files						
V	Search the active Lotus Notes email	account					
	Search for these email addresses/domains:	: @aol.com support@pinpointlabs.com					
		Exclude the listed addresses/domains					
	Search for emails in this date range: (mm/dd/yyyy)	☑ 1/ 1/2013 ▼ to 12/31/2015	•				
	Deduplication options:	Remove duplicate messages					
	Other Lotus Notes options:	Process a working copy where possible	ə.				
12.12							

Search loose Lotus Notes NSF files:

This item must be checked in order to enable Lotus Notes NSF email processing.

NOTE: NSFs that are found with no messages matching the applied filters are written to the exclusion log if the **Exclusions Log** option in **Reporting** has been selected.

Search the Active Lotus Notes email Account:

This option instructs Harvester to connect to the default Lotus Notes mail store that is set up in the current user's profile and conduct the search on it. It can be used independently of the *Search loose Lotus Notes* NSF files option.

Search for these email addresses/domains (To/From/CC/BCC):

You can enter or paste a list of items that are going to be used in the filter. There should be one entry per line as shown in the image. Names, domains or email addresses may be entered. When a domain only is entered, all emails from that domain will be selected.

riew General Sources Targets Keyw	ord Filters File Filters Email Filters	s Encryption Reporting	
Lotus Notes Searching:			
Search loose Lotus Notes NSF files			
Search the active Lotus Notes email	account		
Search for these email addresses/domains:	@aol.com support@pinpointlabs.com		
	Exclude the listed addresses/domains	3	
Search for emails in this date range: (mm/dd/yyyy)	✓ 1/ 1/2013 ▼ to 12/31/201	5 💌	
Deduplication options:	Remove duplicate messages		
Other Lotus Notes options:	V Process a working copy where possib	le.	

Exclude the listed addresses/domains:

This option indicates that emails found matching the *Address/Domain to Search for (To/From/CC/BCC)* filter should be excluded from the search results.

Start Date/Ending Date:

These fields provide the option to narrow the emails extracted by the date range specified. This applies to emails only. The dates are entered in MM-DD-YYYY format. The dates matched are the Send/Received times from the email header as well as the Lotus Notes document creation date.

Remove duplicate emails:

When this option is checked, messages are compared across all stored emails in the listed data sources. An MD5 hash value is calculated for each message and compared to all messages that have been processed in the current job. As duplicate messages are encountered, they are flagged and written to the *_duplicate_email.log*. The MD5 hash value is based on the following values: Sender, Recipient, CC, BCC, Subject, Email Body, Attachment Names, and Attachment Sizes.

Search working copy of NSF where possible:

When this option is checked, Harvester will make a copy of the NSF file and search the copy. This is done because Lotus Notes is unable to open or search a read-only NSF file and as such will change the metadata on any NSF that it opens. Creating a working copy allows you to retain the original NSF's metadata and hash value and still conduct a Lotus Notes search. Unchecking this box will instruct Harvester to conduct the search on the NSF file in its original location.

NOTE: If you are using email filtering in any of the above options as well as searching for keywords, Harvester will treat the combination as an **AND** (any keywords will be searched for within responsive emails located using the email filters).

ABOUT THE PINPOINT LABS MAIL PROCESSING ENGINE (PPLM)

The PPLM email processing engine was introduced in Harvester 5.0 and is used to process messages from all mail sources except Lotus Notes. PPLM is multi-threaded, and a sub folder will be created for each mail store that runs during a job.

When troubleshooting, a Pinpoint Labs Support Engineer may ask for the logs in order to help diagnose a problem which can be found in the PPLM folder in your job log directory.

Encryption Tab and Reporting Tab

ENCRYPTED FILE DETECTION

Harvester 5.1 Advanced Options - Part 3

Harvester has the ability to identify several different types of encrypted files such as PST, PDF, Word, Excel, Access, and Zip files. The settings listed here let users determine whether to look for encrypted files and what to do with them if they are found.

Encryption Detection Settings:

Detect encrypted files and image-only pdf files
 Copy encrypted files to normal location
 Copy encrypted files to special location
 Target path for encrypted files:
 Copy full paths
 Create root folders
 Create subfolders

Detect Encrypted and Image-Only Files: Checking this option will force all loose files and email attachments through the encryption detection routines. If these files are determined to be encrypted, they will be listed in the encrypted files log in the logs folder.

NOTE: In regards to PDF files, both the encryption status and whether a PDF file contains only images (*image-only*) are determined. *Image-only PDF files are considered encrypted because there is a high likelihood that they will need to be reviewed.*

Browse

Copy encrypted files normally: This option will copy encrypted files to their normal target locations. Unchecking this box instructs the program not to copy encrypted files to their normal target location.

Copy encrypted files to a special folder: This option allows the user to specify a target folder for any encrypted files. Users can either click the **Browse** button to select a folder or use the following variables to specify a target:

[SCDrive] – The drive letter that Harvester is running from.
[JobName] – The name of this job.
[Logs] – The path set up for logs.
[Target] – The path set up as the target for this job.
[CName] – The name of the computer running this job.
[UName] – The username of the logged-in user running this job.
[Date] – The date the job was run.
[DateTime] – The date and time (to the second) that the job was run

Copy Full Paths: This option will recreate the full path to the encrypted file on the target side.

Create Root Folders: This option will also create a folder at the base of the target path named after the drive letter or UNC server on which the file was found. For example, an encrypted file found at C:\demo\test3\Crypto.doc may be copied to J:\Collected Files\Encrypted\C\demo\test3\Crypto.doc.

Create subfolders: This option will create subfolders beneath the encrypted file target. Not checking this box or the *Create Full Paths* box will force all of the encrypted files into the root of the path specified above.

REPORTING

Overview	General	Sources	Targets	Keyword Filters	File Filters	Email Filters	Encryption	Reporti
Re	eport G	Genera	tion:					
	H H Tally Exclu File li: Folde Hash	er list	ation files	atch log				

Verification Log: When selected, this option will create the Chain of Custody log file (_verification_log.csv). This report, a comma separated values file (.csv), lists fields pertinent to the copies made and the statistics of each file.

Using the *Create Verification Log*, *Hash the Source File* and *Hash the Destination File* options will result in a detailed Chain of Custody log file saved in the directory chosen in the *Log File Path*.

These fields include:

- Date/Time Copied
- Hashes Match
- TS Exact Match
- Source Path
- Source Created Date
- Source Modified Date
- Source Access Date
- Source Size (in bytes)
- Source MD5 (calculated MD5 hash value)
- Destination Path
- Destination Created Date
- Destination Modified Date
- Destination Access Date
- Destination Size (in bytes)
- Destination MD5 (calculated MD5 hash value)
- Error Messages

Hash the Source File:

This option calculates the MD5 hash value of each file copied before the copy is made. The values are reported in the Chain of Custody log file.

Hash the Destination File:

This option calculates the MD5 hash value of each file once copied to the destination. The values are reported in the Chain of Custody log file.

File List:

This option stores a file containing the path and file name of each responsive file encountered for this job. It will also create individual extended file, extended email, extended archived files and extended email attachments lists. These lists can be created without copying the files.

Folder List:

This option stores a file in the specified log path that contains the top-level folders specified as sources.

Hash List:

This option writes the MD5 hash value for all responsive files to a hash list file located in the current

job log directory. This list can then be used as a filter (de-dupe) using the **Use Hash List Filter** (deNIST) option by placing this file in the _hashlist folder.

Exclusion Log:

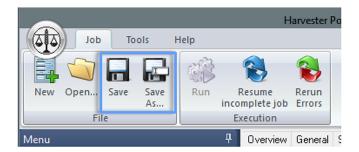
This option creates a log of any files that were excluded due to the various exclusion filters or due to the *Hash List Filter* or *Exclude Duplicates* options. The log also contains an explanation for the exclusion.

Log Time Stamp Changes Separately:

When selected, the program will not count time stamp discrepancies due to mismatched file systems as errors in the error log, but will create a separate log to note these discrepancies.

SAVING HARVESTER JOBS

Once a Harvester job is created, users can save it to use with automated collections or reuse when needed. Harvester files are saved with the **.occ** extension.



Selecting *Save As* will open the *_occ* directory in the Harvester directory. Job files stored in the _occ directory will be displayed in the job list automatically when Harvester is launched.

Harvester job files can be quickly created, saved and emailed to clients for self-collection and stored wherever a user prefers. The Harvester job filename will default to the *Job Name* entered under details; however, users can choose an alternative.

OPENING HARVESTER JOBS

Harvester job files stored in the _occ directory will be displayed in the Job Profile tab when the application is launched. However, both job files and runtime .scj files can be loaded from other locations by clicking *Open* on the *Job* ribbon bar and browsing to the file location. Users can edit job files and update the file by clicking *Save*.

Users can also drag and drop an occ file from Windows Explorer to the job profile tree to display and edit settings. Clicking *Run* on the settings form will execute the current specifications in the job manager form.

Job Console

JOB CONSOLE OVERVIEW

Reference Video: Running Harvester Server Locally

The Harvester progress console will provide important feedback as well as valuable real-time statistics

🚯 (Copy S	peed: 8.96	GB/hour)					—		×
Job: File Processed 41		s (11 of 473 N	1B)						
Overview	Settings	By File Typ	oe Emails	By Keyword					
	Running Job:			2 50 54					^
Elapse	Start time: Elapsed time:			3:59 PM					
Files o	Estimated time remaining: Files copied: Files excluded:								
	nt containe nt item:	er:	C:\Users\PT3\Desktop\Sources\JohnDoe\CollTest\1 Wiedenest_John_Allan_talk.docx						
	nt process ted messa		Flushing buffer 0 / 0						
Threa	Error count: Thread 1:			0 Thread 1: 0% of 794.9 KB Using Helix for Recovering from PC Hacks.pdf					
Threa				of 45.95 KB USS	SSPflyer.docx SSPfluer_001_docx		_		~
						Skip File		Cance	

- Job Name
- Start Time
- Elapsed Time
- Estimated time remaining (during the processing phase)
- File included/excluded
- Current container
- Multi-threaded object identification

Users frequently monitor this tab for overall job processing information.

JOB CONSOLE SETTINGS

When running jobs directly from a profile on the local system (versus remote launching jobs on target computers) the Harvester job progress console will appear. Users can view their job profile settings while it's running by clicking on the **Settings** tab. Double clicking on the **Target path** or **Logs path** will open the corresponding locations.

Users can view their job profile settings while it's running by clicking on the *Settings* tab. Double clicking on the *Target path* or *Logs path* will open the corresponding locations.

verview Settings By File Type Emails By Keyword	1
General settings	
Job name:	File Backup
Command to run on start:	
Command to run on end:	
Show command prompt window:	No
Threads to use:	8
Silent mode:	Yes
Source settings	
Search subdirectories:	Yes
Use shadow volumes when available:	No
Search zip files as folders:	No
Apply filters to folders added to ESI Vault (drag/d	
Translate mapped drives to UNC:	No
Defined sources:	
Targets	
Use VHD:	No
Target path:	H:\CustodianCollection\File Backup\Target\3Jul17-142539\
Logs path:	H:\CustodianCollection\File Backup\Logs\3Jul17-142539\
Create full paths:	No
Create root folders:	No
Create subdirectories:	Yes
Copy empty folders:	No Rename the file

JOB CONSOLE BY FILE TYPE

While processing a job the *By File Type* tab will provide real-time statistics for file types and categories including total count and size. The matching files are also organized by *Loose Files, Archived*, and *Email Attachments*.

Dverview	Settings	By File Type	Emails	By Keyword			
		Loose File	25	Archived	Email Attach.	Cloud Files	Total
Sound	and Music	Files 1/63 Byte	es	0 / 0 Bytes	0 / 0 Bytes	0 / 0 Bytes	1 / 63 Bytes
> Other		94 / 34.83	MB	7 / 67.22 KB	0 / 0 Bytes	0 / 0 Bytes	101 / 34.9 M
> Office I	Documents	393 / 298.	65 MB	7 / 3.37 MB	0 / 0 Bytes	0 / 0 Bytes	400 / 302.03
Databa	ise Files	11 / 4.8 M	В	28 / 11.95 MB	0 / 0 Bytes	0 / 0 Bytes	39 / 16.76 MI
> Archiv	es	14 / 42.22	MB	0 / 0 Bytes	0 / 0 Bytes	0 / 0 Bytes	14 / 42.22 M
> Image	5	4 / 609.11	КВ	36 / 2.43 MB	0 / 0 Bytes	0 / 0 Bytes	40 / 3.02 MB
> Email F	iles	12 / 79.87	MB	0 / 0 Bytes	0 / 0 Bytes	0 / 0 Bytes	12 / 79.87 M
Execut	able Files	1 / 52.5 KI	3	10 / 41.58 MB	0 / 0 Bytes	0 / 0 Bytes	11 / 41.63 MI
> Video F	iles	1 / 76.09 k	(B	0 / 0 Bytes	0 / 0 Bytes	0 / 0 Bytes	1 / 76.09 KB
Web D	ocuments	4 / 387 KE		0 / 0 Bytes	0 / 0 Bytes	0 / 0 Bytes	4 / 387 KB

JOB CONSOLE EMAILS

While processing a job, the **Emails** tab provides real-time statistics for matching messages. The path to the store and total count are also included.

Overview	Settings	By File Type	Emails	By Keyword	Errors (2)			
Email	Store					Searche	ed Found	Extracte
▷ Folde	rtestA.pst					220	220	0
	est.pst					13	13	0
HPott	er.pst					154	154	0
Dire.	pst					296	296	0
MSmi	th.pst					154	154	0
TMati	hews.pst					154	154	0
DupTe	est.ost					13	13	0
HPott	er.ost					154	154	0
JDoe.	ost					296	296	0
MSmi						154	154	0
TMat	news.ost					154	154	0
Pinhe	ad.pst					0	0	0
тота	LS:					1762	1762	0

JOB CONSOLE BY KEYWORD

While a job is running, a list of the keywords in the job profile will be displayed in the **By Keyword** tab. Once the indexing process is completed, the counts will be updated. The **Create Index option must be selected to get keyword result counts.**

Summary	Settings	Files	Keywords	Emails	Encrypted	Errors	
⊿ Key	word hit	ts by	/ term				🥥 👌 🗄 🔻
Т	key w/5 wo	ord					7
	Thin*						554
Т	term						85
Т	discover*						867
Т	file w/10 (T	ransf	er OR Copy)				87
T	mouse						44
I	gig*						34
Т	pin w/5 poi	nt					0
	switch						1881
		w/10 (((collection /	AND e-*)	OR discover	y)	2
	monitor						113
	chrome						3
	syntax w/5						1
	how w/2 (t		hack)				2
_	patriot w/5	act					3
	jail						3
	sentence						12
T	legal w/5 ((Infor	nation OR sy	ystem) 0	k judge)		12
Т	All terms						2824
No	n-searchabl	le files	;				6

JOB CONSOLE ERRORS

While a job is running, users can see real-time error reporting on the Errors tab. Messages will be organized into common categories and by expanding a selection, users can see details related to each item.

- File-based errors allow you to double-click on the error to open an explorer window to the specified file.
- PST-based errors allow you to double-click on the error and run the source PST through ScanPST.

verview	Settings	By File Type	Emails	By Keyword	Errors (41)	1		
	ess denied		Lindis	by Reymond			 	(2)
	uments and S						 	(/
	em Volume Ir	-						
-		Lost connectio	n					(1)
		LOST CONNECT						
i 📔 Car	not create	e or write to ta	rget PST					(2)
Test	Target.pst							
Colla	ated.pst							
Car	not read f	rom source						(2)
🛛 🔚 Car	not read f	rom target						(2)
The	apy.pdf [92]							
The	apist.pdf [75]]						
🛛 🐻 Car	not write	to target						(2)
Zero	-Tolerance.d	locx [Device unav	/ailable]					
		ocx [39: The disk	-					
_		lformed messa	ige item					(5)
_	bug messa	-						(2)
		tabase errors						(2)
	connection I							
-		to common log da -	tabase					r
	PI connect							(3)
	d not connec	ct to session						
	9 not found							
-	lefault profile ors (Other)							(2)
-	file is cori							(2)
		isconnected						(2)
*		to be read/wr	ite enabler					(2)
		sword protecte						(2)

When running jobs directly from a profile on the local system (versus remote launching jobs on target computers) the Harvester job progress console will appear. Users can view their job profile settings while it's running by clicking on the **Settings** tab. Double clicking on the **Target** *path* or *Logs path* will open the corresponding locations.

RESUMING A JOB

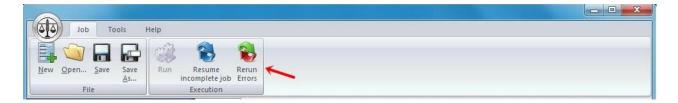
A number of conditions may cause jobs to be cancelled or fail to complete. Incomplete jobs can be easily resumed by selecting the **Resume an Incomplete Job** option in the **Job Profile** ribbon. To resume the job, browse and select the _jobfile.scj, which will be located in the **Logs Path** that was specified for the project.



Alternatively, users can resume a job listed in the **Previous Jobs** list by clicking on the job and choosing **Resume this job**. This option can save time as users do not need to confirm the log folder location and manually browse to locate the .scj file.

RERUNNING ERRORS FOR A JOB

Jobs can also error out on certain files while being processed. Files with errors can be rerun simply by selecting the **Resume an Incomplete Job** option in the **Job Profile** ribbon. To rerun errors, you need to also browse and find the _jobfile.scj as you would if you were trying to resume an incomplete job.



Alternatively, users can rerun errors for jobs listed in the **Previous Jobs** list by clicking on the job and choosing **Rerun errors**. This option can save time as users do not need to confirm the log folder location

Data Assessment Mode

Harvester runs in two separate stages:

Enumeration (inventory stage): This is the first phase where it goes through the specified sources and records which files meet filter criteria.

Processing (copy stage): Harvester goes through the list it made during enumeration, and copies the items and hash verifies the copies.

Running Harvester in *Data Assessment Mode* will stop the job after enumeration, to generate inventory reports without copying the data.

ob Details:									
Job Name:	Beta1_Email@W								
Job File:	C:\Users\Administrator.0\WNER-PC\Desktop\HARVESTER_PORTABLE_5_0_897\bin_occ\Beta1_EmailK\W.occ								
Instructions:	Follow my lead								
In case of error:	Refer to the Help File								
Threads to use:	Suto detect								
Bun time options:	Data Assessment Mode (Pause for review before collecting)								

NOTE: Clicking **Resume this job** at any point will finish enumeration and proceed to copy phase.

Post-Data Assessment is viewed in the History window under the **Files tab**. The user has the opportunity to uncheck unnecessary extensions before resuming the copy phase. This can cull the data further, potentially reducing copy time and per-gigabyte processing fees.

nmary	Settings	Files Keywords E	imails Enc	rypted Errors				
Files by extension								
		Loose files	Archived	Email Attach.	Total			
ps	t	📝 3 / 79.49 MB	0 / 0 Bytes	0 / 0 Bytes	3 / 79.49 MB			
ns	f	📝 1 / 37.25 MB	0 / 0 Bytes	0 / 0 Bytes	1 / 37.25 MB			
PP	tx .	📝 1 / 9.09 MB	0 / 0 Bytes	0 / 0 Bytes	1 / 9.09 MB			
do	cx	📝 27 / 7.75 MB	0 / 0 Bytes	0 / 0 Bytes	27 / 7.75 MB			
zip)	📝 2 / 4.38 MB	0 / 0 Bytes	0 / 0 Bytes	2 / 4.38 MB			
pd	f	📝 23 / 2.31 MB	0 / 0 Bytes	0 / 0 Bytes	23 / 2.31 MB			
PP		📝 2 / 2.02 MB	0 / 0 Bytes	0 / 0 Bytes	2 / 2.02 MB			
tif		📝 1 / 184.91 KB	3 0 / 0 Bytes	0 / 0 Bytes	1 / 184.91 KB			
ex	e	📝 1 / 40 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 40 KB			
txd	t	📝 3 / 27.95 KB	0 / 0 Bytes	0 / 0 Bytes	3 / 27.95 KB			
db		📝 1 / 27.5 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 27.5 KB			
ht	m	📝 1 / 8.21 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 8.21 KB			
то	TALS:	66 / 142.57 MB	0 / 0 Bytes	s 0 / 0 Bytes	66 / 142.57 MB			

Under the Files tab, check for unnecessary file extensions. Choose and uncheck unnecessary extensions before resuming into the copy phase.

Job	Tools	Help			1.11			
Open Save File	As this	wme job Errors Execution	Summary	Cattings	Files	Keywords	Emails	En
Menu	A 11 1	џ	Summary	Settings	Files	Neywords	Emails	En
Job Profiles	🕑 History		Run time summary					
5Feb15-15 5Feb15-14	b s (9) 50914 - ACME F 50815 - ACME F 15807 - ACME F 14916 - ACME F	ile Collec ile Collec	Ru	b Name: in on CPU: in by user: it status:	PGI-8 Admir	200.05	. 100	Start End ti Elapse Searc

In the History Tab, highlight the job and click on *Resume this job* after review to proceed to copy phase.

To Resume a job at a later time (Collect the identified data).

If the logs are available but the job is not listed under the History tab, open the Harvester, Click on Tools > Resume an Incomplete Job. Browse to the *_jobfile.scj* for the job you wish to resume and click *Open*. The *_jobfile.scj* will be located in the logs folder.

Post-Data Assessment is viewed in the History window under the **Files tab**. The user has the opportunity to uncheck unnecessary extensions before resuming the copy phase. This can cull the data further, potentially reducing copy time and per-gigabyte processing fees.

To Resume a Job via Harvester Server Console Interface (Collect the identified data)

4 Main Tools Help P 6 R Cores -2 4 3 \bigotimes Release Resume Rerun for Restart Stop Delete View Results Errors Refresh Stop Auto Print Now Refresh Close New Edit Create Batch File Open Start Stop Project Can Submit Jobs Project 🕼 Job Queue 🕼 Job Grid Actions 😼 Job Dispatcher 😼 Task Submit Status 🚱 Job Actions Project: ACME (). Process / Г Job ID Description Target Computer Online Status Job Name Job Stage Dispatch Status Process ID User Name Start Time (UTC) Start Time (local) Last Update Time (UTC) omplete

Highlight a job by checking its box and a Click the View Results button.

Under the Files tab, check for unnecessary file extensions.

dol					
/e Save As					
File					
mary Settings File	s Keywords Er	nails Encrypt	ted Errors		
Files by exten	sion				
	Loose files	Archived	Email Attach.	Total	
pst	🔽 3 / 13.11 MB	0 / 0 Butes	0 / 0 Bytes	3 / 13.11 MB	
pdf	16 / 12.56 MB		0 / 0 Bytes	16 / 12.56 MB	
mdb	2 / 768 KB		0 / 0 Bytes	7 / 2.47 MB	
ppt	4 / 1.8 MB		0 / 0 Bytes	4 / 1.8 MB	
accdb	3 / 1.63 MB		0 / 0 Bytes	3 / 1.63 MB	
zip	🗹 2 / 1.34 MB	0/0 Bytes	0 / 0 Bytes	2 / 1.34 MB	
ipg	📝 2 / 239.29 KB	6 / 535.24 KB	0 / 0 Bytes	B / 774.53 KB	
tif	🔽 1 / 184.91 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 184.91 KB	
docx	📝 1 / 81.29 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 81.29 KB	
dll	📝 1 / 52.5 KB	0/0 Bytes	0 / 0 Bytes	1 / 52.5 КВ	
exe	🔽 1 / 40 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 40 KB	
xls	🗹 1 / 17 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 17 КВ	
png	🗹 1 / 7.39 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 7.39 КВ	
TOTALS:	38 / 31.8 MB	11 / 2.24 MB	0 / 0 Bytes	49 / 34.04 MB	
Files by categ	ory				
	Loose files	Archived	Email Attach.	Total	
Office Documents	22 / 14.45 MB	0 / 0 Bytes	0 / 0 Bytes	22 / 14.45 MB	
Email Files	3 / 13.11 MB	0/0 Bytes	0 / 0 Bytes	3 / 13.11 MB	
Database Files	5 / 2.38 MB	5 / 1.72 MB	0 / 0 Bytes	10 / 4.1 MB	
Archives	2 / 1.34 MB	0 / 0 Bytes	0 / 0 Bytes	2 / 1.34 MB	
Images	4 / 431.59 KB	6 / 535.24 KB	0 / 0 Bytes	10 / 966.83 KB	
Executable Files	2 / 92.5 KB	0 / 0 Bytes	0 / 0 Bytes	2 / 92.5 КВ	
TOTALS:	38 / 31.8 MB	11 / 2.24 MB	0 / 0 Bytes	49 / 34.04 MB	

Choose and uncheck unnecessary extensions before resuming into the copy phase.

File mmary Settings Files	Keywords Er	nails Encrypt	ed Errors		
Files by extens	sion				
	Loose files	Archived	Email Attach.	Total	
			cindi rictuciii		
pst	📝 3713.11 MB		0 / 0 Bytes	3 / 13.11 MB	
pdf	📝 16 / 12.56 MB	0 / 0 Bytes	0 / 0 Bytes	16 / 12.56 MB	
mdb	🔲 2 / 768 K.B		0 / 0 Bytes	5 / 1.72 MB	
ppt	🗹 4 / 1.8 MB		0 / 0 Bytes	4 / 1.8 MB	
accdb	🗹 3 / 1.63 MB		0 / 0 Bytes	3 / 1.63 MB	
zip	🔲 2 / 1.34 MB		0 / 0 Bytes	0 / 0 Bytes	
jpg	📝 2 / 239.29 KB		0 / 0 Bytes	8 / 774.53 KB	
tif	🔲 1 / 184.91 KB		0 / 0 Bytes	0 / 0 Bytes	
docx	🗹 1 / 81.29 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 81.29 KB	
dll	📝 1 / 52.5 KB		0 / 0 Bytes	1 / 52.5 KB	
exe	🗹 1 / 40 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 40 KB	
xls	🗹 1 / 17 KB		0 / 0 Bytes	1 / 17 КВ	
png	📝 1 / 7.39 KB	0 / 0 Bytes	0 / 0 Bytes	1 / 7.39 КВ	
TOTALS:	33 / 29.53 MB	11 / 2.24 MB	0 / 0 Bytes	44 / 31.77 MB	
Files by catego	ory				
	Loose files	Archived	Email Attach.	Total	
Office Documents	22 / 14.45 MB	0 / 0 Bytes	0 / 0 Bytes	22 / 14.45 MB	
Email Files	3 / 13.11 MB	0 / 0 Bytes	0 / 0 Bytes	3 / 13.11 MB	
Database Files	5 / 2.38 MB		0 / 0 Bytes	10 / 4.1 MB	
Archives	2 / 1.34 MB	0 / 0 Bytes	0 / 0 Bytes	2 / 1.34 MB	
Images	4 / 431.59 KB	6 / 535.24 KB	0 / 0 Bytes	10 / 966.83 KB	
Executable Files	2 / 92.5 KB	0 / 0 Bytes	0 / 0 Bytes	2 / 92.5 КВ	
TOTALS:	38 / 31.8 MB	11 / 2.24 MB	0 / 0 Bytes	49 / 34.04 MB	

Click Save, close the window and then click Resume.



Job History

Harvester Server provides quick access to previously run job statistics and settings. A history database (History.db) is located in the Harvester Server application folder and will store the location and overall statistics of each completed job that is run from that Harvester executable.

After a Harvester job completes, the progress bar will disappear and highlight the job history file that displays the ending job statistics and other useful details. If users create a new install from the Harvester archive file, then a new history database will be created.

TO VIEW PREVIOUS PROJECT MANAGED JOBS:

Main Tools Help		- = x
Contended and the second secon	Resume Rerun for View Browse Trors Job Hatory rs Dob Dispatcher rs	
Projects		
- ACME - Backup	Overview Settings	
ACME - Accounting		
ACME - IT	Name: Test Set	
ACME - Collection	Description:	
Test Set		
Job Profile		
ACME - File Backup		
ACME - File Backup KW		
ACME - Frie Backup KW	Currently Selected Profiles	
ACME - Server Backup 02	Job Profile(s):	
ACME File Collection AB002	JOD PLOTID(\$)/	
ACME - TechSupport Audit		
ACME-Acccounting		
ACME-Lotus Backup		
Previous Unmanaged Jobs		
24Nov14-152338 - ACME - Server Backup		
12Feb15-83246 - ACME - File Backup KW		
12Feb15-83246 - ACME - File Backup KW		
12Feb15-83246 - ACME - File Backup KW		
10Dec14-105332 - ACME File Collection AB002		
3 10Dec14-111947 - ACME - File Backup		
11Mar15-122109 - ACME-Lotus Backup		
3 11Mar15-122109 - ACME-Lotus Backup		
24Nov14-151929 - ACME - File Backup	Created: 12/10/2014 10:49:55 AM (12/10/2014 4:49:55 PM UTC	
24Nov14-151929 - ACME - File Backup		
24Nov14-151451 - ACME - Server Backup	Last modified: 12/10/2014 10:49:55 AM (12/10/2014 4:49:55 PM UTC	
24Nov14-151337 - ACME - Server Backup	Last access: 12/10/2014 10:49:55 AM (12/10/2014 4:49:55 PM UTC	
24 24 Jourist 151227 ACME Somer Packan		

Highlight the project with the Profile you would like to view, and click **Open**.

						- 3
Check (highlight)) a	job and	click	View	Results	

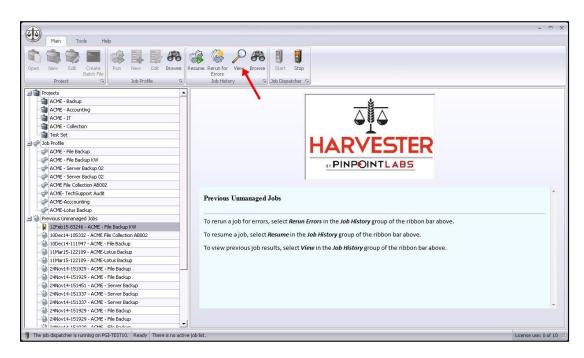


1	ose Ne	tain Too W Edit Project	Create Open Refm	esh Stop Auto Prin w Refresh	Start St		Release Res	une Rerun for Res Errors Job Al		Delete View Re				
Pro	oject: AC	ME ().									~			
	ocess /	Job ID	Description	Target Computer	Online Status	Job Name	Job Stage	Dispatch Status	Process ID	User Name	Start Time (UTC)	Start Time (local)	Last Update Time (UTC)	
ł	- Proces:	s: Complete	4 WellT://PGI2.MET/PGI-TESTI	ID PGI-TESTIO	Online	ACME-Initial Assessment	Run complete			administrator	04/22/2015 15:54:01	04/22/2015 10:54:01	04/22/2015 15:54:14	
T	~	Constant State	6 WinNT://PGI2.NET/PGI-TEST										04/22/2015 16:11:58	
	- Proces	s: Initializing											-	
			3 WinNT://PGI2.NET/PGI-TEST		Online	ACME_Keyword_Search	Starting job		192	† Ina	04/29/2015 16:44:09	04/29/2015 11:44:09	04/29/2015 16:44:09	
			5 WINNT://PGI2.NET/PGI-TEST		Online	ACME_Keyword_Search	Starting job		1493	2 administrator	04/29/2015 16:45:22	04/29/2015 11:45:22	04/29/2015 16:45:22	
	Г		7 WinNT://PGI2.NET/PGI-TEST	10 PGI-TEST10	Online		Start Issued		177	2			04/29/2015 16:47:16	
•														
														1
1	The job de	spatcher is ru	nning on PGI-TEST10. Ready 0	arid refresh complete a	t 11:52:27 AM.									License use: 0 of 1000

This will open the profile's history display interface (below):

ummary	Settings	Files	Keywords	Emails	Encrypted	Errors			
Rur	n time s	umma	ary						
Job Name: ACME - File Backup KW Start time:							015 (8:32:46)		[
	in on CPU:	PGI-TE					015 (8:33:38)		
	in by user:	244234	1212123	100000000	ed time:	00:00:00:			
	it status:		ted without er			27.93 GB			
	umerated:	1998			ction speed	d: 37.64 GB	/hr		
Ex	tracted:	Yes			all speed:	16.03 GB			
Ite	m proce	essing	summar	'y					
			Searched	Found	Excluded	Copied	Incomplete	Errors	
	Loose fil	S	355	355	0	355	0	0	
	Loose fil	es	300 246.27 MB	122 8 S.S. F. F. S.		355 246.27 MB			
			246.27 MB	246.27 Mb) U	246.27 MB	0 Bytes	0 Bytes	
	Email me	essages	0	0	0	0	0	0	
		2022.5. 5 .029	0 Bytes	0 Bytes	0	0 Bytes	0 Bytes	0 Bytes	
			1000	2.211 - 112-6		2.2 C	20.000 × 0.000 × 0.000	8493.5 4 .559	
	Email sto	ores	0	0	0	0	0	0	
			0 Bytes	0 Bytes	0	0 Bytes	0 Bytes	0 Bytes	

TO VIEW PREVIOUS UNMANAGED JOBS



Highlight the unmanaged job you would like to view and click the *View* button.

This will open the Job's History display interface (below):

Ð									_ = = :			
Summary	Settings	Files	Keywords	Emails	Encrypted	Errors						
Rur	n time s	umma	iry									
10	b Name:	ACME .	File Backup	KW/ Start	time	12 Feb 2	015 (8:32:46)		1			
	un on CPU:	PGI-TE		End ti			D15 (8:33:38)					
5.83	in by user:	administ	7603752	100000000000000000000000000000000000000	ed time:							
	it status:		ed without er	· · · · · · · · · · · · · · · · · · ·		27.93 GE						
	umerated:	100000			ction speed							
Еж	tracted:	Yes			ll speed:	16.03 GE						
Ite	m p <mark>r</mark> oce	ssing	summai	'y								
			Searched	Found	Excluded	Copied	Incomplete	Errors				
			1922	01-10-10	18	012000		525				
	Loose file	es	355	355	0	355	0	0				
			246.27 MB	246.27 MB	0	246.27 MB	0 Bytes	0 Bytes				
	Email me	essages	0	0	0	0	0	0				
	Lindii iik		0 Bytes	0 Bytes	ō	0 Bytes	0 Bytes	0 Bytes				
			,	,	12	,	0.0,000	10000000				
	Email sto	ores	0	0	0	0	0	0				
			0 Bytes	0 Bytes	0	0 Bytes	0 Bytes	0 Bytes				

Harvester Server job files can also be opened with other versions or installs of Harvester.

Click the Browse button in Job History

Main Tools Help								
Cpen New Edit Create Broject G Job Profile G	Resume Return for View Browse Errors Job Hotory Job Dispatcher Fo							
Projects								
L ACME	v							
Job Profile								
ACME_Arthur_and_Milton_NO_VSS								
ACME_Arthur_and_Milton_with_VSS								
ACME_Keyword_Search								
- ACME-Initial Assessment	HARVESTER							
Beta1_My_Template01								
Beta1_My_Template02_DAM								
DateTimeFilter								
- Inter DragFilter								
- WeywordSearchingDC								
LDrive Variable	Projects							
Previous Unmanaged Jobs 22Apr15-111017 - Beta 1_My_Template02_DAM								
22Apr 15-111017 - beta 1_iny_remplated2_DAM								
22Apr15-111017 - Beta1_My_Template02_DAM	To create a new project, select Project in the list to the left and then New in the Project group of the ribbon bar above.							
22Apr15-111017 - Beta1_My_Template02_DAM	To select an existing project, expand the list to the left by click the arrow in front of Project and click the name of the project.							
22Apr15-105412 - ACME-Initial Assessment	to select an ensuing project, experte the new of the end of the anow in home of the project and then the home of the project							
The job dispatcher is running on OWNER-PC. Ready There is no active	e job list. License use: 0 of 100							

Browse to the specific logs folder and choose the _jobfile.scj

rganize 🔻 New folde	r				8≣ ▼ 🚺	
ConeDrive	Name	Date modified	Туре	Size		
 District Documents Music Pictures Videos 	jobfile.scj	2/27/2015 4:50 PM	SCJ File	6 KB		
Homegroup Computer Local Disk (C:) Donovan (\\DSK- OMalley (\\DSK-I						
🚽 PinPoint_Raid (\\ ♥	ime:			•	scj (Job History File) (*.scj)	

This will open the Job's History display interface (below):

)									- =
ummary	Settings	Files I	Keywords	Emails E	Encrypted	Errors			
Run	time su	imma	ry						
226	Name:	ACHE	Cile Disaluus	KW Start t		10 5-4000	15 (8:32:46)		
		PGI-TES		End tin			15 (8:33:38)		
5.5555		administ			d time:	00:00:00:5			
	100000000000000000000000000000000000000			mors Search		27.93 GB/			
	merated:	Sector and the sector	ca minoar c		500 S	ed: 37.64 GB/	0.0		
57 Com. 1		Yes			l speed:				
Linci	accedi			U.C.G.	. speed	10.00 001			
Item	proces	sing	summa	ry					
			Searched	Found	Excluded	d Copied 🗄	Incomplete	Errors	
	Loose file:	5	355	355	0	355	0	0	
			246.27 MB	246.27 MB	0	246.27 MB	0 Bytes	0 Bytes	
	Email mes	sages	0	D	0	D	0	0	
		2010-00-00	0 Bytes	0 Bytes	0	0 Bytes	0 Bytes	0 Bytes	
	Email stor	es	0	0	0	0	0	0	
			0 Bytes	0 Bytes	0	0 Bytes	0 Bytes	0 Bytes	
									0

Harvester will display the job view and load the job details and results that include:

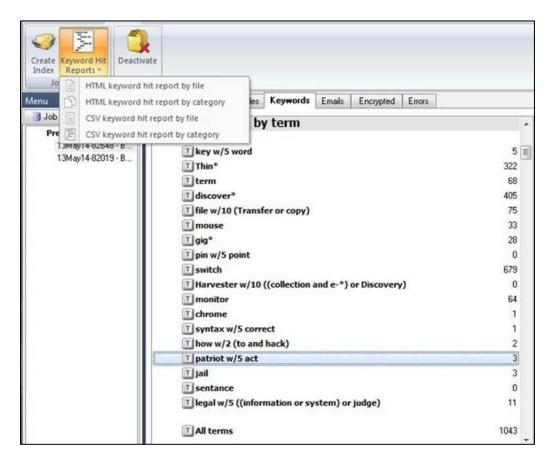
TAB NAME	DESCRIPTION
Summary	Contains run time statistics and totals for email and loose files categories.
Settings	A snapshot of the job profile settings. This can be very useful if users would
	like to know if, for example, they chose a setting or included all keywords.
Files	Tally for file types; includes total count and size.
Keywords	Lists total hits for each keyword entry and allows users to launch keyword hit
	preview.
Emails	Review which mail stores had matching items and the folder location.
Encrypted	Shows list of identified encrypted files organized by type.
Errors	Shows list of identified errors organized by category.

While the above descriptions should be self-explanatory, it is worth pointing out the extended functionality in the Keywords tab.

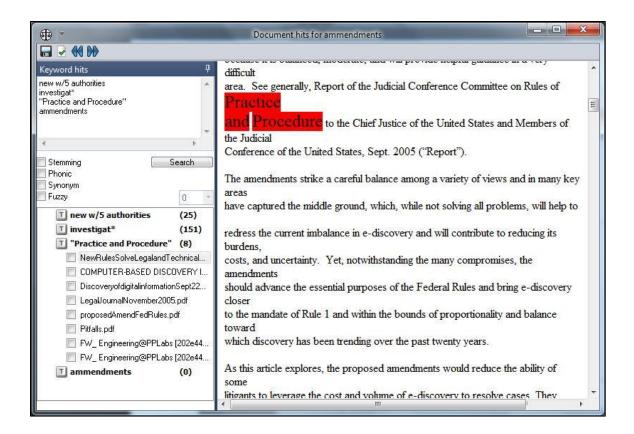
KEYWORDS AND HIT HIGHLIGHT REVIEW

Reference Video: Harvester Keyword Reports & Highlighting

Harvester keyword hit reports and highlighted preview options are very useful for users who want to review search results. To take advantage of these powerful tools, users need to ensure an index was created for the job and keywords were chosen.



All entries will be listed in the **Keywords** tab as well at the total number of hits. Double clicking on an entry will bring up a window that lists the individual files with matching hits in the left pane. Clicking on a file in the list will display the contents in the preview windows and matching terms will be highlighted (as seen below).



The Keyword Hit Highlighter can automatically move to the next term that was found in the document by using the forward and backward arrows at the top of the **Key Word Hit Highlighter** window.

KEYWORD PREVIEW FEATURES

The keyword preview window allows users to save keyword hit report by file list or category to

an HTML or CSV file. To access these options click on the disk icon in the upper left hand corner of the screen. After selection users will be allowed to browse to a location to store the file and provide a filename.

TAGGING FILES

The keyword list panel in the lower left hand corner of the keyword preview window enables users to:

- Click on an entry to preview the highlighted hits which are displayed in the right hand window
- Tag files that are of interest to the current review process by clicking the checkbox next to each item.
- Check multiple entries by using using CTRL+Shift (select multiple entries) OR holding Shift and clicking on 1st then last entry to select a range OR right-click and select Check All Items.
- After selecting items right-click to *Check selected items* or *Uncheck selected items*.
- Remove files from the keyword list by right-clicking and selecting *Remove checked items* or *Remove un-checked items*. Users can also click on the check-mark icon in the upper left hand corner.
- Create file list from for items by right-clicking and selecting *Create file list from checked items* or *Create file list from un-checked items*.

KEYWORD HIT REPORTING

In addition to previewing the hit results, users can create HTML or CSV reports of all hits, individual entries or selected items. To create hit reports for all items:

	_ = X			
Summary Settings Files Keywords Emails Encrypted Errors				
		User Name	Start Time (UTC)	Start Time (loc
Keyword hits by term	I I I I I I I I I I I I I I I I I I I		vord hit report by file	
			ord hit report by cat	
T key w/5 word	1			tegory
Thin*	35		rd hit report by file	
Tterm	6	CSV Keywoi	rd hit report by cate <u>c</u>	gory
T discover*	436			
Tfile w/10 (Transfer or copy)	86			
Tmouse	33			
T gig*	30			
🔟 pin w/5 point	0			
T switch	691			
Harvester w/10 ((collection and e-*) or Discovery)	9			
Tmonitor	67			
Tchrome	1			
🔟 syntax w/5 correct	1			
Thow w/2 (to and hack)	2			
🔟 patriot w/5 act	3			
1 jail	3			
1 sentance	0			
Iegal w/5 ((information or system) or judge)	11			
T All terms	1114			
		1		
r is running on PGI-TEST10. Ready Grid refresh complete at 4:23:44 PM.				License use: f

- Click on Keyword Hit Reports.
- Select the report you want to generate and the location where you would like to store the file.

Keyword hit reports by file will list all files and the location that match the entry.

Keyword hit reports by category will create a tally report by file category.

To tag specific files relevant to your review and create a report, follow these steps:

- Double click on a specific term or **All Terms** to display a list of the selected documents. Using the following actions you can tag files:
 - 1. Click the check box next to each document.
 - 2. Shift or Control keys select individual or a range of hits and right click will mark or unmark the highlighted items.
- When finished tagging items click the icon to remove the remaining items from the list.
- A report containing only the remaining items can be created by clicking the **Keyword Hit Reports** option in the toolbar of the document preview interface.

KEYWORD SEARCHING

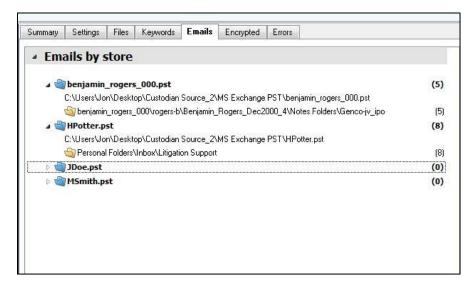
In addition to viewing the keyword results from a job, users can enter new search terms and review hits on-the-fly. This can be accomplished by entering the phrases in the upper left hand corner of the search hit preview screen. The keyword syntax format and rules are the same as available from the keyword tab in the job profile settings.

⊕ *	Document
Keyword hits	ą
new w/5 authorities investigat* "practice and procedure" ammendments	< >
<	>
Stemming	Search
Phonic Synonym	
Fuzzy	0 *
T new w/5 authorities	
PatriotAct[1].pdf	
⊥ investigat*	
PatriotAct[1].pdf	
NewRulesSolveLegalandTechnicalProblems.pdf	
"practice and procedure"	
NewRulesSolveLegalandTechnicalProblems.pdf	
1 ammendments	

After clicking Search a new entry representing the phrase will appear as well as a list of the results. Clicking on an entry will load the contents in the preview window with the terms highlighted. Scrolling through the document may be required to see the hits.

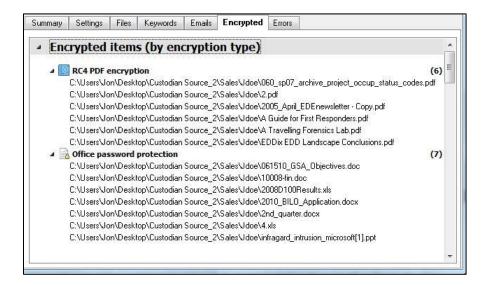
EMAIL RESULTS

If a user chooses to search emails or attachments within a mail store (PST, NSF) a list of the resulting matches by mail store will be displayed in the **Email** tab. Each mail store will be listed and allow users to expand to see the individual folders where the item are stored.



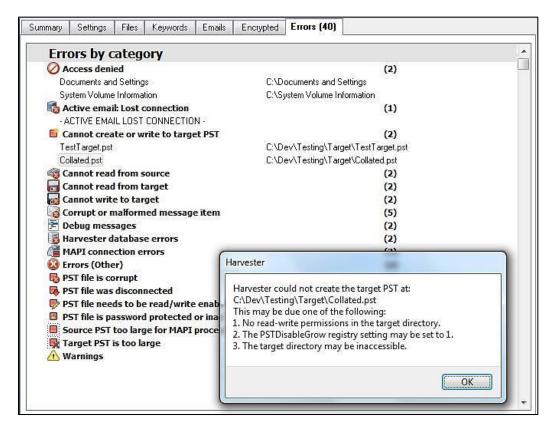
ENCRYPTED FILE RESULTS

If **Detect Encrypted Files** is selected, Harvester will check each file and tag those identified. The results will be displayed in the **Encrypted** tab. Each category can be expanded to see the individual file locations.



ERROR RESULTS

If errors occur during a Harvester job, they will be displayed in the **Errors** tab. Many common issues encountered by users are organized into categories and the total for each is displayed. Users can expand each category to see the individual file locations.



Double clicking on many of the individual items will display a message box (as seen above) that explains the error, common causes, and often how to fix the problem. The Harvester logs folder also contains a list of the errors encountered in *_errors.log*.

SCRIPTING HARVESTER

Harvester includes functionality that allows users to create job files, start a Harvester job, and launch programs or utilities that can work with the data captured and files collected. The topics listed below cover how to control several aspects of Harvester.

HARVESTER VARIABLES

Several variables are available that can be used to automatically create directories and specify target computers. Here is a list of the current variables and how they are implemented.

Variable	Field(s)	Description
[SCDrive]	Log Path, Target	This variable is replaced with the drive letter that Harvester is running from,
	Path, Common	without the trailing slash.
	Log, Encrypted	Example: [SCDrive]\Test1\Job would translate to: E:\Test1\Job if Harvester is
	File Path, Collated	running from somewhere on drive (E:)
	Email Path	
[JobName]	Log Path, Target	This variable is replaced with the job name as defined in the Job Name field.
	Path, Common	Example: D:\Collections\[JobName] would translate to: D:\Collections\Brad
	Log, Encrypted	Cowey Laptop if the job Brad Cowey Laptop is being run.
	File Path, Collated	
	Email Path	
[CName]	Log Path, Target	This variable is replaced with the network name of the computer that the job
	Path, Common	is running on.
	Log, Encrypted	Example: D:\Collections\[CName] would translate to:
	File Path, Collated	D:\Collections\MYLAPTOP if the job is running on a computer named
	Email Path	<i>MYLAPTOP</i> . This variable is very useful when running the same job from the
		same device on multiple computers.
[UName]	Log Path, Target	This variable is replaced with the username of the user that is logged in and
	Path, Common	running the software.
	Log, Encrypted	Example: D:\Collections\[UName] would translate to:
	File Path, Collated	D:\Collections\JohnDoe if the user John Doe is logged into the computer and
	Email Path	running the job. This variable is useful for separating data collected by many
		users accessing the same computer.
[Date]	Log Path, Target	This variable is replaced with the current date (in local format).
	Path, Common	Example: D:\Collections\[Date] would translate to: D:\Collections\10-31-
	Log, Encrypted	2010 if the job is run on October 31, 2010 .
	File Path, Collated	
	Email path	

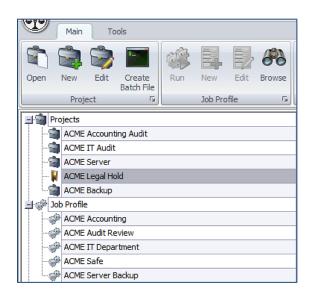
[DateTime]	Log Path, Target	This variable is replaced with the current date and time in the form dmmyy-
	Path, Common	tttttt. It is very useful for email-launched jobs since it will create a new set of
	Log, Encrypted	folders for every run, even by the same user.
	File Path, Collated	Example: D:\Collections\[DateTime] would translate to:
		D:\Collections\4Apr11-135020 if the job is run on April 4, 2011 at 1:50:20 PM local time.
[Logs]	Encrypted File	This variable is replaced with the path to the Logs directory after it has been
	Path, Collated	translated at run time. This allows you to create subfolders to your logs folder
	Email Path	for encrypted files or collated email stores.
[Target]	Encrypted File	This variable is replaced with the path to the Target directory after it has
	Path, Collated	been translated at run time. This allows you to create subfolders to your
	Email Path	target folder for encrypted files or collated email stores.
[LDrive]		This variable is replaced at run time with a new source for each logical drive connected to the computer running the job. The two drives that will not be added as sources are the drive that Harvester is running from and the drive that Harvester is copying files to. These exceptions are to prevent infinite loops.
[MDrive]		This variable is replaced at run time with a new source for each network folder that is mapped to a drive letter. For example, if the network folder
		\\NETSHARE1\Users\JohnDoe is mapped to drive letter K:, then drive K: is added as a source automatically at run time. A single instance of [MDrive] will add all network mapped drives as sources.
[UserFolder]	Sources	This variable is replaced at run time with the path to the My Documents (or
		equivalent user documents folder) for the logged in user only.
[UserFolders]	Sources	This variable is replaced at run time with the paths to all My Documents (or
		equivalent user documents folders) for all users on a machine. Note that you
		will not be able to copy files from these directories under all circumstances.
[PROMPT]	Sources	This variable will cause the program to prompt the user at runtime to drag
		and drop additional sources into the ESI Vault window.

LAUNCH JOB FILES FROM A COMMAND LINE

Harvester jobs can be automatically launched from the command line, batch files or applications that include *shell out* commands. Creating a batch file can be extremely useful in self-collection kits, legal holds, or streamlining everyday jobs. Harvester has many batch file creation options to fit your collection needs.

To create a batch file, follow the instructions below:

- Select the job you would like to create the batch file for.
- Once selected, click **Create Batch File** underneath the tools section of the toolbar.



• Select the options you would like your batch file to be created with. To see what each option's interface while running looks like, see **Batch File Interface Options** below.

🖃 🗐 Pro	jects	44+ Batch File Options
-3	ACME Accounting Audit	- Interface options
-9	ACME IT Audit	Interface options
-9	ACME Server	C Full interface
📔	ACME Legal Hold	C Only statistical progress and results interfaces
	ACME Backup	Minimal progress interface only
📙 🐲 Job	Profile	
	ACME Accounting	C Run the job with no interface
	ACME Audit Review	- Other options
	ACME IT Department	
	ACME Safe	Hide permissions errors from minimal interface
- ÷	ACME Server Backup	Hide warnings in minimal interface
📄 🎲 Pre	vious Unmanaged Jobs	
	14Jul 14-101315 - ACME Audit Review	Job profile
	14Jul14-101233 - ACME Safe	ACME Accounting
	14Jul 14-101203 - ACME Audit Review	,
	14Jul14-101130 - ACME Server Backup	File name
	14Jul14-101106 - ACME Server Backup	
	14Jul14-101038 - ACME Safe	
	14Jul14-101014 - ACME Accounting	
	14Jul 14-100953 - ACME Audit Review	
	14Jul14-100912 - ACME IT Department	
	14Jul14-100849 - ACME Safe	Create Cancel

• When finished selecting the options for the batch file, click **Create** to finish the process. Your newly created batch file will be named ClickMe.bat unless otherwise named and will be located in the **Batch Files** folder in the location Harvester Server is running from.

BATCH FILE INTERFACE OPTIONS

Full Interface:

This option provides the full Harvester Interface when running and when viewing the history report when finished.

b: ACME Audit Review			
umerating Items: 12 Found / 12 Sea	arched		
verview Settings By File Ty	pe Emails By Keyword		
Jettice Jettings by File 13			
Running Job:	ACME Audit Review		
Start time:	6/24/2014 11:16:22 AM		
Elapsed time:	00:00:00:17		
Estimated time remaining:			
Files copied:	0		
Files excluded:	0 C:\Custodian Source\Filtered by Extension\		
Current container: Current item:	(15.82 KB) terror.docx		
Current process:	Flushing buffer		
Exported messages:	0		
Error count:	0		
		Skip File	Cancel
Job			_ 1
			(*
Save As File	sypted Errors		(*
Save As File Settings Files Keywords Emails End	suppled Errors		(*
Save Save As File Run time summary Job Name: Beta1_My_Template02_DAM Start	: time: 22 Apr 2015 (11:10:17)		(*
Save narry Settings Files Keywords Emails Encore Run time summary Job Name: Betal_My_Template02_DAM Start Run on CPU: PGI-TEST10 Encore Encore Elaps	: time: 22 Apr 2015 (11:10:17) ime: 22 Apr 2015 (11:11:57) ed time: 00:00:1:52		(*
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Only statistical progress and results interfaces:

This option provides only statistical progress and a limited history report when finished.

(Search Sp	peed: 2.87 GB/hr) Harve	ester Hybrid - ACME Audit Review
	I E Audit Review Items: 36 Found / 36 Sear	iched
Overview	Settings By File Typ	e Emails By Keyword
Start (Elapse Estima Files o Files e Currer Currer Currer	ed time: ated time remaining: copied: excluded: nt container: nt item: nt process: ted messages:	ACME Audit Review 6/24/2014 11:28:28 AM 00:00:00 0 0 C:\Custodian Source\Filtered by Search Terms\ (1.43 MB) 200611294Z15_postNuke_001.docx Hashing file 0 0
		Skip File

Run time summa	ary					
Run on CPU: PGI-TE Run by user: adminis		rors Searcl Extrac	me: ed time: h speed:		37hr 37hr	
Item processing	summa	ry				
	Searched	Found	Excluded	Copied	Incomplete	Errors
Loose files	292 520.06 MB	292 520.06 MB	0 O Bytes	292 520.06 MB	0 O Bytes	0 O Bytes
Email messages	0 O Bytes	0 O Bytes	0 O Bytes	0 O Bytes	0 O Bytes	0 O Bytes
Email stores	0 O Bytes	0 O Bytes	0 O Bytes	0 O Bytes	0 O Bytes	0 O Bytes
Linal stores	-	-	-	-	-	•

Minimal Progress Interface Only:

This option provides very little information about the running job and only provides a notice that the scan has finished, with no details about the job that was run.

(Search Speed: 7.78 GB/hr) Harvester Hybrid - ACME Audit Review		×
Job: ACME Audit Review Enumerating Items: 113 Found / 113 Searched		0
	Skip File	Cancel

NOTE: The *Other Options* only apply to the minimal progress interface setting.

- Other options
Other options
Hide permissions errors from minimal interface
Hide warnings in minimal interface

Run this job with no user interface:

This option provides no user interface whatsoever. Once the batch file is double clicked, Harvester will run silently in the background with no indication that it is running.

When launching jobs directly from the command line, the available switches and required syntax for common scenarios are detailed below.

Harvester.exe [-as] [-q] [-silent] [-compact] [-suppress_permissions_alerts] [suppress_warnings_alerts] [-stop] [-occ="path_to_occ_file"] [-resume="path_to_jobfile.scj"] [retry]

-as	<i>autostart</i> If there is only one file in the _occ directory in the application path, it will			
	run it.			
-q	<i>quiet</i> This hides the job list window when a job is being started from the command			
	line and instructs the application to quit once the job is completed. It is used in			
	conjunction with either the -as, -occ, or -resume flags and has the effect of limiting			
	the user interfaces to just the progress screen and the summary screen.			
-silent	Silent This hides all user interfaces. It is used in conjunction with the -as, -occ or -			
	resume flags. This flag also forces the program to exit once the job is completed.			
-compact	Compact This hides all user interfaces except for the launch instructions, the ESI			
	Vault, a basic progress bar, and an indication that the job has completed.			

-suppress_	This flag, when used in conjunction with the <i>-compact</i> flag, will not treat permission			
permissions_alerts	errors as errors when alerting the user to errors at the end of the job. Permissions			
	errors are still logged and visible in the history section and in the raw error log.			
-suppress	This flag, when used in conjunction with the <i>-compact flag</i> , will not treat non-critical			
_warnings_alerts	warnings as errors when alerting the user to errors at the end of the job. Warnings			
	are still logged and visible in the history section and in the raw error log.			
-stop	Stop This closes the program after a job has been run.			
-occ=	Specify a job to run This allows you to specify the full path to an occ file to run. The			
	path must be in quotes if it contains spaces, but may be in quotes even if spaces are			
	not present in the path.			
-resume=	<i>Resume a job</i> This is used to resume a stalled job or to rerun errors on a job that has			
	already been run (when used with -retry). The path to the _jobfile.scj must be			
	specified. This will be located in the logs path of a job that has been started. If the			
	path contains spaces, it must be in quotes. Quotes can also be used on paths that do			
	not contain spaces.			
-retry	Retry errors This flag is used in conjunction with the -resume= flag and sets the error			
	flags in the job database back to pending. This puts the job in a resumeable state			
	where the errors are attempted again.			

Command line scenarios

• While using Harvester, users want to launch a specific collection job from a batch file or other application. The Harvester job will immediately start and when completed bypass the job summary dialog box.

The *-silent* switch is used to automatically start a specific job and suppress all message and progress dialog boxes. This switch also tells Harvester to bypass the job summary message when the job is completed. The following syntax is used: [Harvester executable path/filename] [switch] -occ= [occ job file path OR occ job name].

Example:

"\\MyServer\Harvester\Harvester.exe" -silent -occ="\\MyServer\Harvester _occ\profile1.occ" or

"\\MyServer\Harvester \Harvester.exe" -silent -occ="profile1.occ".

The second option only requires the name of the job file. When processing this command, Harvester will check the _occ directory located in the path already specified.

- To run a specific job with minimal user interface that stops after the job has been run: D:\Harvester\Harvester.exe -q -occ="D:\Harvester_occ\SampleJob.occ"
- Or, if the job file is on a network share: D:\Harvester\Harvester.exe -q -occ="\\FileServer34\Legal\HarvesterJobs\SampleJob.occ"
- To rerun errors on a job and stop after it's finished: D:\Harvester\Harvester.exe -q -resume="D:\Logs\12June2012_jobfile.scj" -retry
- To run a job with no user interface: D:\Harvester\Harvester.exe -silent -occ="D:\Harvester_occ\SampleJob.occ"

- To rerun errors with no user interface: D:\Harvester\Harvester.exe -silent -resume="D:\Logs\12June2012_jobfile.scj" -retry
- To launch a specific job with minimal interfaces that does not report permissions errors to the user:

D:\Harvester\Harvester.exe -compact -occ="SampleJob.occ" -suppress_permissions_alerts

The first scenario is based on automatically launching and running Harvester in a 'stealth' mode that is completely automatic and doesn't require any further user interaction. This will most commonly be used to automate network collections. It is important to review any error logs to make sure that the job completed successfully, and no further action is required.

LAUNCHING THIRD PARTY UTILITIES USING "SHELL OUT" COMMAND

Using the *Shell Command to Execute on Job Start*, or *Shell Command to Execute on Job Completion* options to launch other applications or utilities allows you to automate processing jobs. The shell out command will be executed when a job is launched or completed (respectively).

The following steps specify how to add a shell out command to an .occ job file:

- Launch Harvester
- Open the .occ job profile
- Click on Advanced button at the bottom of the job manager
- Enter the commands in the text boxes provided and click **OK**

Using the Command to run at job start, or Command to run at job end options to launch other applications or utilities allows you to automate processing jobs. The command will be executed when a job is launched or completed, respectively. With Show command prompt window selected, the Windows Command Prompt window will open when the command is executed.

An example of a command to run would be *C:\Windows\System32\notepad.exe*, when entered into the Command to run at job end will open **Notepad** when the Harvester job has finished.

Another example would be entering *C:\Program Files (x86)\Microsoft Office\Office14\outlook.exe* in the Command to run at job start, which will open Microsoft Office Outlook when the Harvester job is launched.

Logs Files

The following is a list of Harvester log files and what they contain. These log files (if relevant to the job) will appear in the log folder that was specified under the Targets tab in the Harvester Job Profiles interface.

_jobfile.scj	Contains job settings and a list of the sources processed. This file is used to resume jobs.
job.sdb	Is a data file which contains information captured during enumeration and copying
	Errors associated with a File list used as a Source
ComputerInfo.txt	Text log containing information about the computer running Harvester, such as computer
-	name, user name, operating system, processors, and attached drives.
_verification_log.csv	Contains a list of files copied, associated metadata, and any errors encountered. The
	verification log acts as the <i>chain of custody</i> for loose files.
_email_verfication_log.csv	Contains a list of emails copied, associated metadata, and any errors encountered. The
	email verification log acts as the chain of custody for emails.
_errors.log	Contains a list of errors encountered. Although these are in the verification log, a separate
	file is created so users can easily review just the errors and use the log to reprocess files.
exclusions.log	Contains a list of files which were excluded as a result of DeNISTing, de-duping, and file
	type filtering as well as the reason for the exclusion.
_ts_mismatch.log	There can be slight discrepancies (fractions of a second, or possibly a few seconds) in the
	file system timestamps on the copied files when the file systems on the source are
	different than the destination. File systems store the time in different <i>resolutions</i> so an
	exact match may not be possible. Discrepancies are common when copying from a file
	system with high timestamp resolution (NTFS) to one with a lower timestamp resolution
	(FAT32). Since an <i>error</i> message will be logged and displayed for each file, a separate file is
	created to store the messages, so the primary error log is used to store messages related to incomplete copies.
_silent.log	Created when Microsoft Windows error occur which are not related to a specific file. This
_silencing	log may also contain notification or warning information for other types of errors
suspect.log	Includes a list of files where the header signature doesn't match the expected extension.
Suspection	This log may be created when the <i>File Types</i> categories are selected which rely on file
	header signatures.
filelist.txt	Created when the Create File List option is enabled. The filelist.txt contains a list of
	responsive files from the data sources selected. The log contains one file path per line.
folderlist.txt	Created when the Create Folder List option is enabled. The folderlist.txt contains a list of
	folders from defined data sources. The log contains one folder path per line.
tally.txt	The tally.txt file contains the total number of files and size for the selected data sources as
	well as general statistical information about a job that has been completed or cancelled.
_extension_tally.csv	Created when the Create Tally Summary option is enabled. The _extension_tally.csv file
	contains a statistical breakdown of each file extension encountered by count, by size, and
	by whether it was a loose file, in an archive, or attached to an email.
email_attachment_list_extended.txt	This is a tab separated text file that contains the following values for each email
	attachment found: Path to PST>>InternalPath/subject of email, name of attachment, date
	created, date received (Date created and date sent will be the same for non-Exchange
	attachments)
file_list_extended.txt	This is a tab separated text file that contains the following values for each logical file that
	was found: Full path of the file, file name, date created, date last modified
email_list_extended.txt	This is a tab separated text file that contains the following values for each email that was
	found: Path to PST>>Internal Path/subject of email, date sent, date received
_email_attachments.csv	This is a comma separated values file containing columns for the following information:
	Path to the PST, Internal path to the message, subject of the message, attachment name,
anonympool files but	and attachment size.
_encrypted_files.txt	This is a text file that contains the paths of all of the files that were deemed encrypted, image-only or unsearchable. There is one path per line.
ancrupted amail attachments say	This is a comma separated values file that contains the path, subject, container info, and
_encrypted_email_attachments.csv	attachment information for any email attachments determined to be encrypted. This log
	is produced when encryption detection is enabled and email attachments are being
	searched.
	Scaronea.
image only pdfs.log	This is a list of file paths for pdf files that were determined to contain only image data but

	are not otherwise even when This lack is used used when hervices a series and
	are not otherwise encrypted. This log is produced when key word searching and
	encrypted file detection are both employed.
_duplicate_emails.log	This is a text file that contains the email path and subject, as well as the original PST it was
	located in for any duplicate emails that have been found. This log is only produced when
	the <i>Exclude duplicates</i> email option has been checked.
hashlist.md5	This is the sorted MD5 hash list that is produced when the Create hash list option is
	checked. It contains only hashes for loose files, not for emails or attachments.
emails_hashlist.md5	This is the sorted MD5 hash list that is produced when the Create hash list option is
	checked and emails are being searched. It contains only hashes for emails that were
	responsive.
longpaths_source.log	This is a text file that contains any source paths that are greater than 255 characters.
longpaths_dest.log	This is a text file that contains any destination paths that are greater than 255 characters.
	These are logged because these files may be difficult to get to via normal means.
_nonsearchable_email_attachments.csv	This is a comma separated values file that lists any email attachments that came up as
	non-searchable during a key word search of email attachments. The file lists the following
	properties of each attachment: The path to the email store it was found in; The entry ID of
	its parent message; The folder within the store where the message can be found; The
	subject line of the parent email; and the file name of the attachment.
_job.sdb (PPLM)	contains data for emails encountered in a particular email store
_jobfile.scj (PPLM)	contains the settings and instructions for a particular email store
calling_command.txt (PPLM)	contains the instructions used to launch a particular email store
Enum_Exit.txt (PPLM)	contains the exit conditions at the end of enumeration for a particular email store
Error.txt (PPLM)	currently not used, but it will contain error information not related to debug functions
	within the processing of a particular email store
Log.txt (PPLM)	contains setup, version, and logging information for the enumeration and collection of a
	particular email store
MailComplete.txt (PPLM)	contains exit conditions for the last email thread process for a particular email store
Progress.txt (PPLM)	contains the last progress message for the thread processing of a particular email store

Understanding OCC Files

.OCC/.SCJ FILE STRUCTURE DEFINITION

To open an existing job file, browse to the _occ sub-directory located in the Harvester application directory (where files were unzipped). Double click or right click on one of the files and select notepad or your preferred text editor to open. You should see something similar to the content below:

[JNAME] Brad Cowley Laptop [JINSTRUCT] Email, Microsoft Office Documents, & PDF files from serial# 5J8I9RT67 [JERRINST] If you have any questions regarding this project please contact Leroy Jenkins 402.555.1212 [EDAPAUSE] 0 [THREADS] 0 [SUSPECTNOCOPY] 0 [WRITE_TO_VHD] 1 [VHD_PATH] C:\VHD\MyVHD.vhd [VHD_TARGET] _Target [VHD_LOGS] [SCDrive]_Logs

[VHD_MOUNTPOINT] C:\Users\Admin\AppData\Local\Temp\OCC2976.tmpmnt [TARGET] [SCDrive]\[JobName]\ [JPATH] [SCDrive]_Logs\[JobName]\ [SRC] C:\ [ENGINE] SC [SEARCHCREATED] 0 [SEARCHMODIFIED] 0 [SEARCHACCESSED] 0 [SILENT] 0 [OVERWRITE] 0 [COPYFILES] 1 [TALLYSUM] 1 [FILELIST] 1 [FOLDERLIST] 1 [RENAME] 0 [FULLPATH] 0 [ROOTFOLDERS] 0 [COPYEMPTIES] 1 [COPYSUBS] 1 [ZIPDIRS] 1 [SEPARATE_TS] 0 [SUSPECTNOCOPY] 0 [EXTOP] 0 [LOGEXCLUSIONS] 1 [LOG] 1 [S-HASH] 1 [D-HASH] 1 [STARTEX] [SHELLEX] [SEARCHEMAILS] 0 [KWSUBJECTBODY] 0 [ACTIVEEMAIL] 0 [KWATTACH] 0 [KWSTEMMING] 0 [KWPHONIC] 0 [KWSYNONYM] 0 [KWFUZZY] 0 [KWARCHIVEOPT] 0 [HASHFILTER] 0 [HFILTER_ATTACH] 0 [HASHFILTERINCLUDE] 0 [HASHFILTEREXCLUDE] 1 [SKIPSYSFILES] 0 [SKIPSYSDIRS] 0 [SKIPTEMP] 0 [KWGO] 0 [KWONLY] 1 [KWHITENCRYPTED] 0 [DETECTENC] 0 [COPYENCTO] 0 [ENCTARGET] [SCDrive]\[JobName]\encrypted [ENCFULLPATHS] 0 [ENCROOTFOLDERS] 0

[ENCSUBFOLDERS] 1 [COPYENCNORMAL] 0 [SKIPDUPES] 0 [HASHLIST] 1 [EDEDUPE] 0 [EATTACHDATES] 0 [EADDYEX] 0 [LNADDYEX] 0 [EPTYPE] 0 [EEXPORTFORMAT] 3

A description of the .occ /.scj fields is listed below:

In fields that require a 1 or 0 1=True/Checked and 0=False/Unchecked

FIELD	VALUES	NOTES
[PROD]	text	(Job File Only, Automatic) The product name that generated the job file
[VERSION]	text	(Job File Only, Automatic) The version number of the product that generated the job file
[APPPATH]	text	(Job File Only, Automatic) The path to the executable that generated the job file
[EXEC_CPU]	text	(Job File Only, Automatic) The executing machine name.
[EXEC_USER]	text	(Job File Only, Automatic) The executing user name.
[JNAME]	text	(Required) This is the job name. For best results, keep simple and only use values that can
		be used in a file path.
[JINSTRUCT]	text	(Optional) Contains job description (up to 255 characters) and is displayed in the job list and startup message box. This only appears in OCC files and there will be one
		[JINSTRUCT] entry per line of information to be displayed. This only appears in OCC files
		and there will be one [JERRINST] entry per line of information to be displayed.
[JERRINST]	text	(Optional) Contains contact information for project manager and/or procedures to follow
		in case of errors (up to 255 characters). Information is displayed in the startup message
		box and at the end of the job if errors are encountered.
[RUNNING_AS_ADMIN]	text	(Job File Only, Automatic) True or False Indicates whether or not administrator
		credentials were used to launch the job.
[DATA_ASSESSMENT_MODE]	text	(Job File Only, Automatic) On or Off Indicates whether data assessment mode is on or off
		for the instance of the job that produced this job file. Resuming a job with this value set
		to On will change it to Off.
[WRITE_TO_VHD]	1 or 0	(Automatic) Controls whether a VHD file container is used as a target.
[VHD_PATH]	text	(Optional) Contains the VHD container file path.
[VHD_TARGET]	text	(Optional) Contains the target path within the VHD file.
[VHD_LOGS]	text	(Optional) Contains the logs path used with the VHD options.
[VHD_MOUNTPOINT]	text	(Job File Only, Automatic) Contains the VHD container file mount point path.
[TARGET]	text	(Required) By default contains variables that will create a subdirectory, using the [JNAME]
		data, on the root of the drive where Harvester is running. The collected files are copied to
		this [TARGET] directory. Other variables, a network path (UNC) or hard path can be used.
		In the SCJ file, any variables are translated to their run time values.
[JPATH]	text	(Required) In the OCC file, this field contains variables and path information that will
		create a <i>Logs</i> directory. Logs are stored in this directory. Other variables, a network
		path (UNC) or hard path can be used. In the SCJ file, any variables are translated to their
		run time values
[EDAPAUSE]	1 or 0	(OCC File Only, Optional) This indicates whether the job is to run in Data Assessment
		Mode, enumerating items and pausing for statistical or other reports before being
		resumed for the copy phase. 1=Pause after enumeration. 0=Continue to copy phase after
		enumeration.
[SHADOW]	text	(Job File Only, Automatic) Contains the temporary shadow volume information (Volume
		Shadowed, mount location, and GUID) for a single shadowed volume.
[VSS PRESENT]	text	(Job File Only, Automatic) <i>True</i> or <i>False</i> Indicates whether VSSADMIN.exe is present.
[VSS_AUTHORIZED]	text	(Job File Only, Automatic) <i>True</i> of <i>False</i> Indicates whether admin credentials were used to
	ICAL	pos rice only, Automatic rule of rule indicates whether authin credentials were used to

		launch the job.
[SRC]	text	(Required) Contains one data source which can consist of drive letters, directories and files or file list. A single job file may have many [SRC] entries. In an OCC file, this may contain variables such as [LDrive]. In the SCJ file produced when the job is run, these variables are translated to their run time values and may produce additional [SRC] entries.
[MSRC]	text	(Job file only) This denotes a source that was added manually at run time by the user, using the ESI Vault.
[PROMPT]	1 or 0	(OCC file only) This field indicates whether or not the ESI Vault will appear at run time to allow users to add additional sources. 1 = ESI Vault will appear. 0 = The job will run with no ESI Vault window.
[HAS_OUTLOOK]	text	(Job File Only, Automatic) <i>True</i> or <i>False</i> Indicates whether the computer running the job had MAPI-enabled, 32-bit Outlook installed.
[HAS_LOTUS]	text	(Job File Only, Automatic) <i>True</i> or <i>False</i> Indicates whether the computer running the job had Lotus Notes installed
[ENGINE]	SC	(Required) Must be SC
[EXCLUSION]	text	(Optional) Contains a single path-based exclusion pattern. One job file may have multiple [EXCLUSION] entries.
[FNAMEFILTER]	text	(Optional) Contains a single path-based inclusion pattern. One job file may have multiple [FNAMEFILTER] entries.
[COPYEMPTIES]	1 or 0	(Required) Controls whether empty sub directories are copied.
[COPYSUBS]	1 or 0	(Required) Controls whether subdirectories under the selected data source are copied.
[COPYFILES]	1 or 0	(Required) Controls whether files are copied. This will be set to 0 if the user wants to generate a 'file list' or 'tally' report without copying files. There is no interface to set this value, but setting it by changing the value in the OCC file will prevent the files from being copied, even when resuming a job. This is equivalent to Data Assessment Mode without an option to continue after enumeration.
[TALLYSUM]	1 or 0	(Required) Controls whether a job summary report is generated.
[FILELIST]	1 or 0	(Required) Controls whether a file list report is created.
[FOLDERLIST]	1 or 0	(Optional) Controls whether a folder list will be created.
[BMONTH]	NUM	(Optional) Beginning month range for MAC time filtering
[BDAY]	NUM	(Optional) Beginning day range for MAC time filtering
[BYEAR]	NUM	(Optional) Beginning year range for MAC time filtering
[EMONTH]	NUM	(Optional) Ending month range for MAC time filtering
[EDAY]	NUM	(Optional) Ending day range for MAC time filtering
[EYEAR]	NUM	(Optional) Ending year range for MAC time filtering
[SEARCHCREATED]	1 or 0	(Required) Controls whether Date Created is used for a date search.
[SEARCHMODIFIED]	1 or 0	(Required) Controls whether Date Modified is used for a date search.
[SEARCHACCESSED] [SILENT]	1 or 0 1 or 0	(Required) Controls whether Date Last Accessed is used for a date search. (Required) Controls whether windows errors are (1) logged to a separate file or (0) shown
		in a popup box
[OVERWRITE]	1 or 0	(Required) Controls whether the Overwrite option is selected in the file collision options.
[RENAME]	1 or 0	(Required) Controls whether the Rename option is selected in the file collision options.
[FULLPATH]	1 or 0	Controls whether or not the target paths will (1) reflect the full source paths above their original root directories or (0) reflect only the folders below the folder defined in the source.
[ROOTFOLDERS]	1 or 0	(Required) Controls whether root folders (drive letters) are included in job path.
[COPYEMPTIES]	1 or 0	(Required) Indicates whether the <i>Copy Empty Folders</i> box was checked. A value of 1 indicates that folders in the source that contained no hits will be represented in the target. A value of 0 indicates that they will be left out.
[ZIPDIRS]	1 or 0	(Required) Indicates whether the <i>Process Zip files as directories</i> box was checked. If this value is set to 1, then the contents of zip files will be subject to the defined file filters.
[SUSPECTNOCOPY]	1 or 0	(Required) Indicates whether the <i>Do not copy files with suspect extensions</i> box was checked. If this value is 1, then files whose extensions do not match their headers will be logged, but will not be copied. This is only applicable when using header/file type filtering.
[CREATESUBS]	1 or 0	(Required) Controls whether subdirectories in the job path are created. 1 indicates that they will be created. 0 indicates that all responsive files will go into the same target folder.
[SEPARATE_TS]	1 or 0	(Optional) Legacy option. 1 indicates A separate log for time stamp discrepancies is created automatically. 0 indicates that time stamp discrepancies will be considered copy errors.
[EXTS]	text	(Optional) Contains the specifications listed in the file type/extensions box
[EXTLIST]	text	(Optional) Contains the path to the text file containing a list of file extensions to use for

	1 0	processing.
[EXTOP]	1 or 0	(Required) 0=Include specified extensions/types. 1=Exclude them.
[LOG]	1 or 0	(Required) Controls whether a verification log is created. 1 indicates that the verification
	10	log will be created. 0 indicates that the verification log will not be created.
[LOGEXCLUSIONS]	1 or 0	(Required) Controls whether an exclusion log is created. 1 indicates that an exclusion log
	1 or 0	will be created. 0 indicates that an exclusion log will not be created. (Required) Controls whether the source file is hashed for verification. 1 indicates that all
[S-HASH]	1 or 0	
		source file hashes will appear in the verification log. 0 indicates that the source file
[D-HASH]	1 or 0	hashes will not be listed in the verification log. (Required) Controls whether the destination file is hashed for verification. 1 indicates that
[D-HASH]	1 or 0	
		all destination file hashes will appear in the verification log. 0 indicates that the
	tout	destination file hashes will not be listed in the verification log. (Optional) Contains a shell command to run at the beginning of the job.
[STARTEX]	text	
[SHELLEX]	text	(Optional) Contains a shell command to run at the end of the job.
[SHOWSHELL]	1 or 0	(Optional) Controls whether or not a command line window will be opened to run the job start and job completion commands. The default is '0' – No window.
[SEARCHEMAILS]	1 or 0	(Required) Controls whether PST files that are encountered in the search should be
		searched as email containers. 1 indicates that loose PST files should be searched as email
		containers. 0 indicates that they should be treated as normal loose files.
[SEARCHLIVEPST]	1 or 0	(Required) Controls whether PST files that are mounted in the default Outlook profile
		should be searched. 1 = yes. 0 = no.
[SEARCHEXCHANGEBOX]	1 or 0	(Required) Controls whether any Exchange Mail Boxes connected to the default Outlook
		profile should be searched. 1 = yes. 0 = no.
[SEARCHPUBLICFOLDERS]	1 or 0	(Required) Controls whether any Exchange Public Folders connected to the default
		Outlook profile should be searched. 1 = yes. 0 = no.
[SEARCHLOTUS]	1 or 0	(Required) Controls whether NSF files that are encountered in the search should be
		searched as email containers. 1 = yes. 0 = no.
[ACTIVELOTUS]	1 or 0	(Required) Controls whether the default mail store that the current user connects to via
		Lotus Notes should be searched. 1 = yes. 0 = no.
[DRIVETOUNC]	1 or 0	(Optional) Indicates whether the Translate mapped network drives to UNC box has been
		checked. 1 = Any mapped drive letters that attach to UNC paths will be translated to
		those UNC paths. 0 = The mapped drive letters will be used.
[FILTERESIV]	1 or 0	(Optional) Indicates whether the Apply filters to user-added folders box is checked. 1 =
		Filters will be applied to folders that were dragged and dropped into the ESI Vault. 0 =
		Folders that were dragged and dropped into the ESI Vault will be copied verbatim without
		applying filters.
[HAS_OUTLOOK]	1 or 0	(Optional, no interface) Marks if the source included an Outlook email file.
[HAS_LOTUS]	1 or 0	(Optional, no interface) Marks if the source included a Lotus Notes email file.
[KWSUBJECTBODY]	1 or 0	(Optional) Indicates whether the Use Key Word Filter for email subject/body box was
		checked. 1 = Email subjects and bodies will be searched using the defined keyword filters.
		0 = Email subjects and bodies WILL NOT be searched using the defined keyword filters
[KWEMAILHEADERS]	1 or 0	(Optional) Indicates whether the Search Email Headers box is checked. 1 = Email headers
		will be searched using the defined keyword filters. 0 = Email headers WILL NOT be
		searched using the defined keyword filters.
[KWCREATEINDEX]	1 or 0	(Optional) Indicates whether the <i>Create Index</i> box is checked. 1 = A keyword index will be
		created. 0 = No keyword index will be created.
[CACHEINDEX]	1 or 0	(Optional) Indicates whether the Create Index box is checked. 1 = File contents will be
		cached in the index. 0 = No file contents will be cached in the index.
[KWATTACH]	1 or 0	(Required) Controls whether email attachments will be subject to the defined keyword
		filters. 1 = Yes. 0 = No.
[KWEXCLUDE]	0 or 1	(Required) Controls whether or not a key word hit triggers an exclusion of the item from
		the list of responsive items. 0 indicates that the item will be included. 1 indicates that the
		item will be excluded.
[KWSTEMMING]	1 or 0	(Required) Controls whether stemming should be used in key word searching. 1 = Yes. 0 =
		No.
[KWPHONIC]	1 or 0	(Required) Controls whether phonic matches should be included in key word searches. 1 = Yes. 0 = No.
[KWSYNONYM]	1 or 0	(Required) Controls whether synonym matches should be included in keyword searches.
	_ 0. 0	1 = Yes. $0 = $ No.
[KWFUZZY]	1 or 0	(Required) Controls whether fuzzy matches (misspellings) should be included in key word
[2010	searches. 1 = Yes. 0 = No.
[KWFUZZYTOL]	1-10	(Optional – Only required if [KWFUZZY] is 1) Controls which value is selected for fuzzy
[1 10	tolerance (how misspelled a word is)

		archive file. 0=Copy whole archive on match. 1=Extract matching files
[HASHFILTER]	1 or 0	(Optional) Controls if <i>hash filter</i> option is selected in Harvester
[HASHFILTERINCLUDE]	1 or 0	(Required if [HASHFILTER] = 1) Controls whether only files with listed hashes will be
		included in the results. If both this value and the [HASHFILTEREXCLUDE] value are set to
		1, then files with listed hashes will be excluded.
[HASHFILTEREXCLUDE]	1 or 0	(Required if [HASHFILTER] = 1) Controls whether only files without listed hashes will be
		included in the results. If both this value and the [HASHFILTERINCLUDE] value are set to 1,
[////00]		then files with listed hashes will be excluded.
[KWGO]	1 or 0	(Required) Indicates whether loose files will be subject to keyword search filters. 1 = Yes.
		0 = No.
[KWONLY]	1 or 0	(Required) A value of 1 indicates that any files that are not key word searchable should
		not be included in the results, except for defined exceptions.
[KWHITENCRYPTED]	1 or 0	(Optional) Indicates whether the Count Encrypted and Image-only files as KW hits box
		was checked. Not necessary if [DETECTENC] is 0. 1 = Encrypted items are counted as hits.
		0 = Encrypted items are not counted as hits.
[KWEXCEPTIONS]	text	A comma-separated list of file extensions that should be included even though they are
[not key word searchable. This setting only applies if the [KWONLY] value is 1.
[SKIPSYSFILES]	1 or 0	(Required) Controls if system files will be skipped. 1 = Files with the system attribute set
		will be excluded. 0 = The system attribute flag will not be evaluated.
[SKIPSYSDIRS]	1 or 0	(Required) Controls if system directories will be skipped. 1 = Directories with the system
		attribute set will be excluded. 0 = The system attribute flag will not be evaluated for
		directories.
[SKIPTEMP]	1 or 0	(Required) Controls if system temporary files will be skipped. 1 = Files with the temporary
		attribute set will be excluded. 0 = The temporary attribute flag will not be evaluated.
[SKIPDUPES]	1 or 0	(Required) Controls if duplicate loose files are excluded. 1 = Duplicate files are logged, but
		excluded. 0 = The duplicate status of files will not be evaluated.
[HASHLIST]	1 or 0	(Required) Controls if hash lists will be used for filtering. 1 = Hash lists will be loaded and
		each file will be hashed for comparison. 0 = No hash lists will be loaded.
[HFILTER_ATTACH]	1 or 0	(Optional) Indicates whether the Apply to Email Attachments box was checked. Not
		necessary if [HASHFILTER] is 0 or if emails are not being searched. 1 = Hash list filtering
		will apply to email attachments. 0 = Hash list filtering WILL NOT apply to email
		attachments.
[KWLIST]	text	(Optional) Contains a single keyword filter entry (term). A single job file may have many
		[KWLIST] entries.
[EADDY]	text	(Optional) One or multiple entries that contain each line in the Address/Domain to Search
		For section of the Loose Outlook PST filtering.
[AEADDY]	text	(Optional) One or multiple entries that contain each line in the Address/Domain to Search
		For section of the loose PST search filter options.
[LNADDY]	text	(Optional) One or multiple entries that contain each line in the Address/Domain to Search
		For section of the Lotus Notes and Active Lotus search filter options.
[PSTSRCHFOLDER]	text	(Optional) One or multiple entries that contain filters identifying which PST folders to
		search when searching loose PST files.
[AESRCHFOLDER]	text	(Optional) One or multiple entries that contain filters identifying which email folders to
		search. When searching Exchange mailboxes, Exchange public folders, or mounted PST
		files.
[EDEDUPE]	1 or 0	(Required) Controls whether email de-duping is enabled for emails encountered in loose
		PST files.
[AEDEDUPE]	1 or 0	(Required) Controls whether active Outlook email (Exchange, Public Folders, Drag and
		Drop) de-duping is enabled.
[LNDEDUPE]	1 or 0	(Required) Controls whether Lotus Notes email de-duping is enabled.
[ESTARTDD]	NUM	(Optional) The beginning day in the email date range search when searching loose PST
		files.
[ESTARTMM]	NUM	(Optional) The beginning month in the email date range search
[ESTARTYYYY]	NUM	(Optional) The beginning year in the email date range search
[AESTARTDD]	NUM	(Optional) The beginning day in an active email date range search (applies to mounted
		PST files, Exchange and Public Folders)
[AESTARTMM]	NUM	(Optional) The beginning month in an active email date range search (applies to mounted
		PST files, Exchange and Public Folders)
[AESTARTYYYY]	NUM	(Optional) The beginning year in an active email date range search (applies to mounted
- •		PST files, Exchange and Public Folders)
[EENDDD]	NUM	(Optional) The ending day in the email date range search when searching loose PST files.
[EENDMM]	NUM	(Optional) The ending month in the email date range search when searching loose PST
		files.

[AEENDDD]	NUM	(Optional) The ending day in an active email date range search (applies to mounted PST files, Exchange and Public Folders)
[AEENDMM]	NUM	(Optional) The ending month in an active email date range search (applies to mounted PST files, Exchange and Public Folders)
[AEENDYYYY]	NUM	(Optional) Then ending year in an active email date range search (applies to mounted PST files, Exchange and Public Folders)
[EATTACHDATES]	1 or 0	(Optional) Indicates whether the <i>Apply date range search to attachment file dates</i> box was checked in the loose PST search settings. Not necessary if emails are not being searched or if no date range is defined.
[AEATTACHDATES]	1 or 0	(Optional)) Indicates whether the <i>Apply date range search to attachment file dates</i> box was checked in mounted PST, Exchange, and Public Folders search settings.
[EADDYEX]	1 or 0	(Optional) Indicates whether emails with senders or recipients matching the patterns defined for Address/Domain searching in the Loose PST search options will be excluded or included. O denotes that the search will hit on only emails to or from the listed addresses or domains. 1 denotes that the search should hit on only emails that do NOT contain the listed addresses or domains. Not necessary if emails are not being searched or if no address/domain filters have been defined.
[AEADDYEX]	1 or 0	(Optional) Indicates whether emails with senders or recipients matching the patterns defined for Address/Domain searching in the mounted PST, Exchange, and Public Folders search options will be excluded or included. O denotes that the search will hit only on emails to or from the listed addresses or domains. 1 denotes that the search should hit only on emails that do NOT contain the listed addresses or domains. This option is not necessary if emails are not being searched or if no address/domain filters have been defined.
[LNADDYEX]	1 or 0	(Optional)Indicates whether emails with senders or recipients matching the patterns defined for Address/Domain searching in the Lotus Notes search options will be excluded or included. O denotes that the search will hit only on emails to or from the listed addresses or domains. 1 denotes that the search should hit only on emails that do NOT contain the listed addresses or domains. This option is not necessary if emails are not being searched or if no address/domain filters have been defined.
[EPTYPE]	NUM	(Required) Controls which email extraction option is selected in the loose PST search options. 0 = Single target per source. 1 = Collate sources into single target PST. 2 = Generate loose email files from source.
[AEPTYPE]	NUM	(Required) Controls which email extraction option is selected in the Exchange/Mounted PST/Drag and Drop search options. 0 = Single target per source. 1 = Collate sources into single target PST. 2 = Generate loose email files from source.
[EPROCPATH]	text	Optional) Under the loose PST search settings, if you've selected the option to collect email data from multiple PST files or and collate them into a single source, this is the path to the collated PST file.
[AEPROCPATH]	text	(Optional) Under the Exchange/Mounted PST/Drag and Drop search settings, if you've selected the option to collate emails into a single target PST, this is the path to the collated PST.
[EEXPORTFORMAT]	NUM	 (Required) Controls which individual email format is selected in the loose PST search settings. 0 = Message files - Unicode (*.msg) 1 = Raw RFC822 (*.eml)
[AEEXPORTFORMAT]	NUM	 (Required) Controls which email export format was selected in the Exchange/Mounted PST/Drag and Drop settings. 0 = Message files - Unicode (*.msg) 1 = Dem DEC022 (* aml)
[LNWORKINGCOPY]	1 or 0	1 = Raw RFC822 (*.eml) (Required) This option controls whether a working copy of each Lotus Notes NSF file will be created for searching 1 = A working copy will be created prior to copy if able. 0 = The search will be conducted on the original NSF file.
[STOREBEGIN]	text	 (Job file only) This entry is written to the job file, followed by the path to the email store, when processing of the email store begins. It is used in the resume feature.
[STOREEND]	text	(Job file only) This entry is written to the job file, followed by the path to the email store, when processing of the email store completes.
[LASTPSTFOLDER]	text	(Job file only) This entry is written to the job file, along with the internal PST path, when a PST folder process begins.
[DETECTENC]	1 or 0	(Required) This value indicates whether or not the <i>Detect Encrypted Files and</i> <i>Attachments</i> box was checked in the encryption detection options. 1 = Encryption detection will be performed. 0 = Encryption status will not be determined.

[COPYENCTO]	1 or 0	(Optional) This value indicates whether or not the Copy encrypted files to a special
		folder box was checked in the encryption detection options. Not necessary if
		[DETECTENC] is 0.
		1 = Encrypted files will be copied to the location specified in [ENCTARGET]
		0 = Encrypted files will not be copied to a special location
[ENCFULLPATHS]	1 or 0	(Optional) This value indicates whether or not the <i>Create Full Paths</i> box was checked in the encryption detection options. Not necessary if either [DETECTENC] or [COPYENCTO]
		are 0
		1 = The full path to the encrypted file will be reflected in the folder structure under the
		location specified in [ENCTARGET]
		0 = Only subfolders will be reflected in the case that [ENCSUBFOLDERS] is 1. No folder
		structure will be reflected in the case that [ENCSUBFOLDERS] is 0
[ENCROOTFOLDERS]	1 or 0	Optional) This value indicates whether or not the Create Root Folders box was checked in
		the encryption detection options. Not necessary if either [DETECTENC] or [COPYENCTO]
		are 0
		1 = Folders named for the drive letters or UNC servers at the roots of the source paths for
		encrypted files will be reflected in the path specified in [ENCTARGET]
		0 = Drive level and server level folders will not be created in the path specified in
	1 == 0	[ENCTARGET]
[ENCSUBFOLDERS]	1 or 0	Optional) This value indicates whether or not the <i>Create Sub Folders</i> box was checked in the encryption detection options. Not necessary if either [DETECTENC] or [COPYENCTO]
		are 0
		1 = The target will contain subfolders
		0 = All files will be written to the same folder with no mirrored structure.
[COPYENCNORMAL]	1 or 0	(Optional) This value indicates whether or not the Copy encrypted files normally box was
		checked in the encryption detection settings. Not necessary if [DETECTENC] is 0
		1 = Files found to be encrypted will be copied to their normal target location
		0 = Files found to be encrypted will not be copied to their normal location.
[ENCTARGET]	text	(Optional) This is the alternate path to which encrypted files should be copied. In the OCC
		file, it may contain variables. In the job file, it will be a fully realized path. Not necessary if
		either [DETECTENC] or [COPYENCTO] are 0
[NUMSTORES]	NUM	(Job file only) This is the number for PST stores tallied during the run. It is written to the
	NUM	job file at the end of the enumeration phase.
[STORESDONE] [NUMFILES]	NUM	(Job file only) This is the number of stores completed at the time the job is canceled. (Job file only) This is the number of files enumerated. It is recorded at the end of the
[NOMFILES]	NOIVI	enumeration phase.
[JOBSIZE]	NUM	(Job file only) This is the size in bytes of the items enumerated for a job. It is recorded
[]		after the enumeration phase.
[SOURCEFILECOUNT]	NUM	(Job file only) This is the total number of email source files enumerated. It is written to
		the job file at the end of the enumeration phase.
[SOURCEBYTECOUNT]	NUM	(Job file only) This is the total size of all enumerated email sources in bytes. It is written to
		the job file at the end of the enumeration phase.
[ARCHIVEFILECOUNT]	NUM	(Job file only) This is the total number of all archive files enumerated. It is written to the
		job file at the end of the enumeration phase.
[ARCHIVEBYTECOUNT]	NUM	(Job file only) This is the total size of all enumerated archive files. It is written to the job
	1157	file at the end of the enumeration phase.
[TCP]	HEX	(Not Manually Editable) This field holds the encrypted password supplied for TrueCrypt volume targets. Manually entered values will not be valid.
[TCEXPATH]	Text	This is the path to the TrueCrypt executable to be used by Harvester. For OCC files, it is
	rext	automatically determined if you have included the portable version of TrueCrypt in your
		Harvester directory.
[TCCONTAINER]	Text	This is the path to the TrueCrypt container being mounted during processing.
[TCMOUNTLETTER]	Text	This is the drive letter that the TrueCrypt volume was/will be mounted as during run
		time. If a letter is not specified or is unavailable, the next available drive letter above G
		will be used.
[MAILPROCESSOR]	Text	Indicates which mail processor should be used to process a particular email store. Valid
-		values are "ASPOSE", "REDEMPTION", and ""
[AOUTMULTIPST]	Text	Indicates whether each email store in an active Outlook-based email collection should be
		written to its own PST. Valid values are "1" for one PST per mounted source or "0" for a
		single PST for all active email.

When different job files are created from the same default template, the following common fields could be easily edited and the job saved to a new filename.

[JName] – Custodian name and what appears in job list [EXTS] – File extensions, definitions or categories

Making modification to just the job name [JName] and resaving to a new filename would keep all other variables (including filtering options) the same. If you need to modify the file types collected, editing the [EXT] field would allow you to make these changes on the fly.

CAUTION:

An improperly formatted job file can prevent a job from running or miss relevant data sources. Be careful and take the time to verify all .occ files.

