

Automated Offline Tape Discovery Guide

Index Engines Tape Engine automates the offline tape discovery process. Now instead of restoring tapes to find specific content, tapes can be searched and responsive data extracted quickly and easily without ever using the backup software. The process is easy. Unordered tapes are loaded into a tape drive or tape library and instantly scanned to generate a catalog and full text index. Simple Boolean and metadata search allows you to cull through millions of files to find all responsive documents and email. Once this data is found it can be easily extracted from tape, keeping all metadata intact, without the original backup software. Automated tape discovery saves significant time and resources. The guide below provides an overview of the automated process.

Step 1

Plug tape library or tape drive into the Tape Engine.

Insert tapes into drives, tapes are cataloged providing a high level view of the tape contents.

Index Tapes

Backupset IDs: EDBs
paraguay_1200952396
paraguay_1200952588

Servers: paraguay
ZEYA

Tape Status:
 Partially Cataloged Partially Indexed
 Fully Cataloged Fully Indexed

Apply Filter

Tape Summary: Displayed: 3 Fully Cataloged: 3 Fully Indexed: 3

Tape Indexing Options:
 Exclude Selected Tapes that are Only Part of Incomplete Backupsets
 Reindex Selected Tapes That Have Already Been Indexed

Select Cartridge IDs	Volume IDs	Backupsets	Tape Status
<input type="checkbox"/> Device: MediaChanger0 Slot Number: 1 Barcode: NBU002	Label: AAC047 Label Create Time: Jan-21 at 4:56 pm Volume Tag: NBU002 Backup Format: Veritas NetBackup 5	Backupset ID: paraguay_1200952588 Server: paraguay, Backup Type: Full, Backup Time: Jan-21 at 4:56 pm, Backup Format: Veritas NetBackup 5, Client Type: Windows, Copy Number: 1	Status: Fully Cataloged, Fully Indexed Cataloged: May-09 at 2:56 pm Indexed: yesterday at 11:48:43 am Size: 1.458GB
<input type="checkbox"/> Device: MediaChanger0 Slot Number: 2 Barcode: NBU003	Label: AAC048 Label Create Time: Jan-21 at 4:53 pm Volume Tag: NBU003 Backup Format: Veritas NetBackup 5	Backupset ID: paraguay_1200952396 Server: paraguay, Backup Type: Full, Backup Time: Jan-21 at 4:53 pm, Backup Format: Veritas NetBackup 5, Client Type: Windows, Copy Number: 1	Status: Fully Cataloged, Fully Indexed Cataloged: May-09 at 2:56 pm Indexed: yesterday at 11:48:03 am Size: 531.63MB
<input type="checkbox"/> Device: MediaChanger0 Slot Number: 3 Barcode: NBU004	Label: Demo Family ID: 950620870 Volume Tag: NBU004 Sequence Number: 1 Backup Format: Microsoft Tape Format 1	Backupset ID: EDBs, Server: ZEYA, Backup Type: Full, Backup Time: May-09 at 10:22 am, Backup Format: Microsoft Tape Format 1, Client Type: Windows	Status: Fully Cataloged, Fully Indexed Cataloged: May-09 at 2:56 pm Indexed: yesterday at 11:47:34 am Size: 762.56MB

Select All Tapes Deselect All Submit

Step 2

Specific tapes are selected for indexing. Scanning occurs at tape speed and all text and metadata is indexed. The software displays real-time progress of the tape indexing.

Tape Control Panel

Device	Media	Tape Label	Status	Progress
TapeDrive0	LOADED	Demo	READ	Read: 715.13MB Overall Rate: 55.41MB/s Recent Rate: 18.20MB/s

TapeDrive0 - Demo

Select/Status Backupset

READING

Backupset ID - EDBs-1	
Policy:	(Full)
Date:	May-09 at 10:22 am
Format:	Microsoft Tape Format, Version 1
Client:	ZEYA (Microsoft Windows)
Progress:	708.94MB from 9,323 files in 89 directories
priv1.edb	708.94MB ██████████ 729.07MB
100000000010da2	0B ██████████ 20.9KB
Segment:	seg2495.21

Step 3

A report is generated detailing the file and email contents of the tape and the indexing status.

Index Segment – seg2495.2

Date: May-22 at 1:29 pm
 Version: 55
 Status: Complete
 Post-Processing: Complete
 License: Valid
 Backups: paraguay (Full), Veritas NetBackup 5.0, AAC048, paraguay_1200952396 [summary](#)

Performance: 531.53MB in 17 seconds (31.27MB/sec) [summary](#)

	Total	(%Data)	Overhead	Net	(%Data)
Logical:	352.94MB	(66.40%)	320.00MB	32.94MB	(6.20%)
Physical:	349.47MB	(65.75%)	316.40MB	33.07MB	(6.22%)

Documents:

File Type	Total	Disabled	Unsupported	Encrypted	Corrupted	Aborted	summary
Empty File	4	0	0	0	0	0	
Hypertext Markup Language (HTML)	10	0	0	0	0	0	
MS Excel (XLS)	779	0	0	0	0	0	
MS OLE (unknown type)	7	0	0	0	7	3	
Microsoft Power Point (PPT)	350	0	0	0	0	0	
Microsoft Word (DOC)	37	0	0	0	0	0	
Plain Text (TXT)	4	0	0	0	0	0	
Unknown	2	0	0	0	0	0	
Totals:	1,193	0	0	0	7	3	

Word Counts: Total: 5,558,712 Unique: 273,057 [Delete Segment?](#)

Step 4

The user performs full text Boolean search and metadata search on the tape contents in order to find all responsive data.

Find Content Find Properties Limit Search

Find Content

containing ALL of these terms:

containing ANY of these terms:

NOT containing any of these:

containing these NEAR each other:

within: 10 words

PATTERN:

Find Content Find Properties Limit Search

Find Properties

Title or Subject:

Author or From:

To:

Cc:

Bcc:

Email Restriction:

File Name:

File Extension:

File Type:

Contains Type:

Find Content Find Properties Limit Search

Limit Search

to items whose Size is from: up to

to items whose Age is from: up to

to items Created from: up to

to items Modified from: up to

to items Accessed from: up to

to items Backed Up from: up to

using Policy:

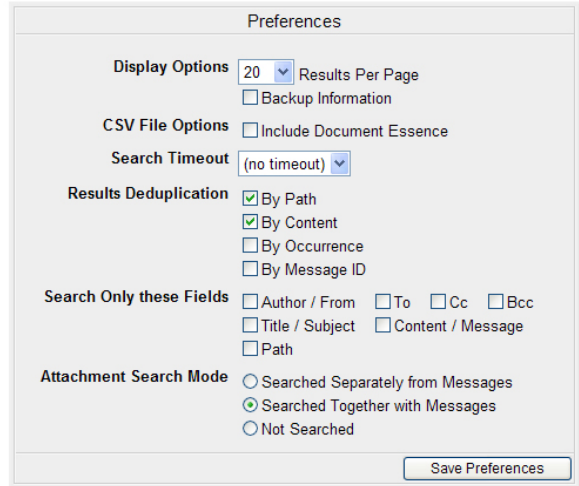
with Backupset ID:

to items having Tag:

to these Locations:

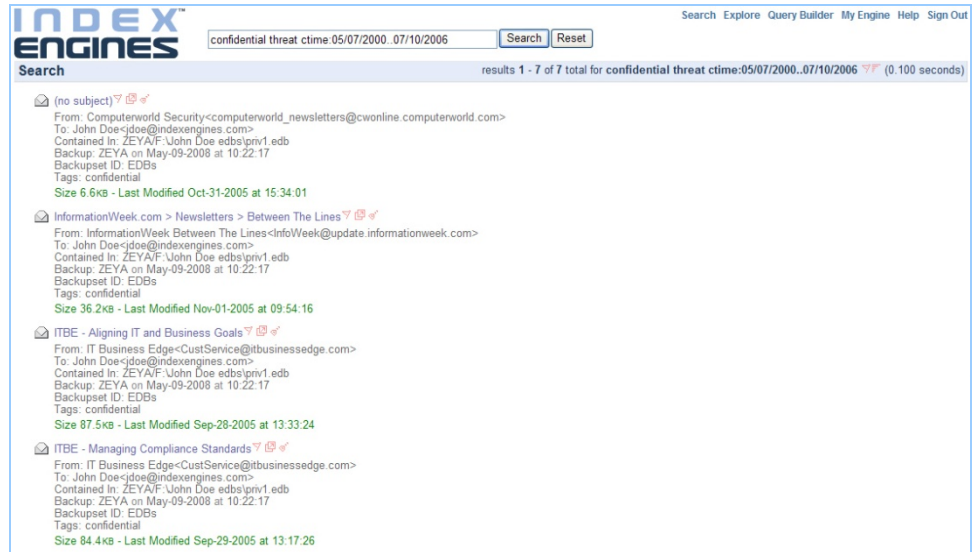
Step 5

A user can specify how duplicate files are managed, by content, message id, etc. When the user queries data they will be assured they only review unique files.



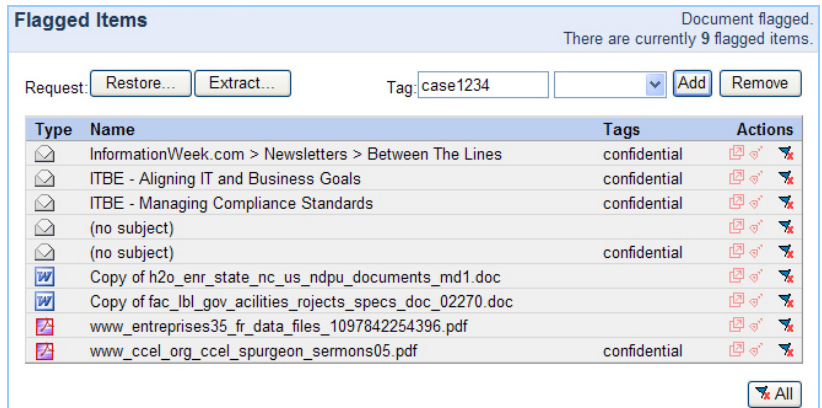
Step 6

Executing the query delivers a full list of the relevant content.



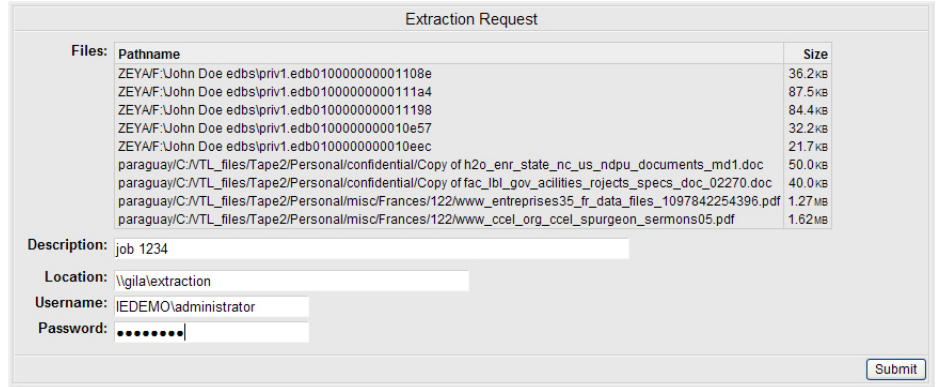
Step 7

File and email to be extracted from tape are selected using the tagging feature.



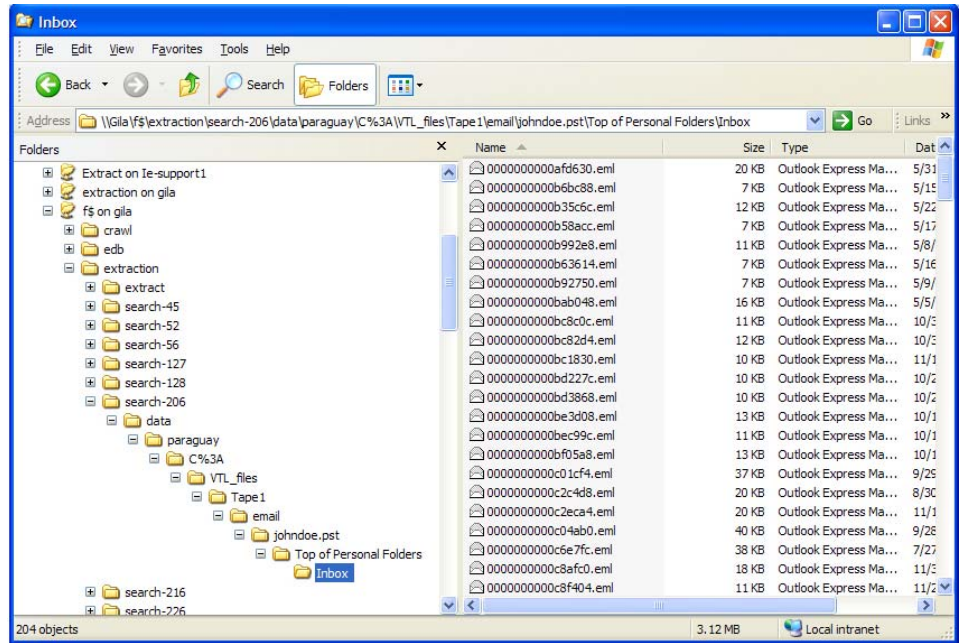
Step 8

An extraction job is then executed for these files.



Step 9

The files are ripped from tape to an online repository keeping all metadata intact.



Step 10

Original files and email can then be examined or placed on litigation hold.

