# CloudNine™ LAW

# User Guide

CloudNine™ LAW, Version 7.10.106

- Getting Started
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- Working with Cases and Projects
- Working with Fields
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- Working with Native Documents
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- Managing Distributed Processes
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- Exporting



# CloudNine<sup>™</sup> LAW User Guide

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CloudNine™ LAW CloudNine™ Concordance® CloudNine™ Explore CloudNine™ Explore Web

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# **CloudNine™ LAW**

User Guide

Welcome



# Welcome

CloudNine<sup>™</sup> LAW helps legal professionals and their service providers meet the increasing demands in the discovery of printed and electronic documents. By integrating productionlevel scanning with robust e-discovery and data processing features, LAW is optimized to enable scalable execution of even the largest discovery projects, from running multiple computers to batch scan boxes of paper documents to importing millions of e-mails and attachments from mail stores, to full text indexing, querying, and exporting to many other popular litigation support applications.

In practice, LAW supports these key discovery processes:

# Prefilter Large Document Sets

The CloudNine<sup>™</sup> Explore and Explore Web modules are standalone prefiltering modules available as a complement to the CloudNine<sup>™</sup> LAW suite. Use them to implement high volume electronic discovery productions. CloudNine<sup>™</sup> Explore Web indexes, filters, and produces export sets. Culled documents are passed directly to LAW for full expansion and production.

# **Creating and Managing Cases**

CloudNine<sup>TM</sup> LAW centers all activities, including data collection, processing, and export on the <u>case</u>. Each case corresponds to a database, which tracks all source files and production files, including graphics and text.

In the process of <u>creating a new case</u>, you select a database engine, create and name the database, <u>establish a folder structure</u> for documents, and define any additional database fields you will need later for coding. Optionally, to simplify future case creation, you can <u>create case templates</u> that specify pre-defined options.

## **Acquiring Documents**

In this step you may do any of the following activities that bring documents into the case:

- Use <u>Turbo Import</u>, a new multi-agent ingestion engine designed to handle more import jobs, bigger data, and with a reduced infrastructure versus ED Loader.
- <u>Import electronic discovery</u> using ED Loader to extract text and to record document metadata in the case database.
- <u>Scan</u> paper documents to electronic format.
- Import items and metadata from existing cases and load files.
- Import existing TIFFs or other kinds of image files.
- <u>Assign custodians</u> at the batch or source level.
- <u>Code documents</u> with data fields.

## **Performing Quality Control**

The exact nature and timing of quality control activities vary greatly, depending on the type and quality of source documents. Quality control typically involves multiple activities spread throughout the discovery project:

- Error correction, for example: reviewing and fixing processing errors, keeping detailed logs of warning and other error conditions, and alerting you to suspected file extensions.
- <u>Tag documents</u> that contain specific text or metadata attributes for the purpose of narrowing consideration to pertinent documents or pages.
- <u>Deduplicate files</u> that were imported during electronic discovery.
- Fix problems with TIFF files using built-in <u>image cleanup</u> tools.

### Batch Processing

<u>Batch Processing</u> functionality helps to automate various processor-intensive jobs, including: document numbering, image cleanup, endorsing, conversion to TIFF or PDF, printing, and optical character recognition (OCR). LAW lets you take batch processing to a new level by combining the processing power of multiple computers to join <u>distributed batch processing</u> of large jobs.

### Exporting

LAW provides a wide range of options for <u>exporting to litigation support applications</u> in a variety of standard formats, including: native files, images, coded data, and OCR text.

For information on LAW and other litigation support products by CloudNine<sup>™</sup>, please visit our website.

# **CloudNine™ LAW**

User Guide

Using CloudNine LAW



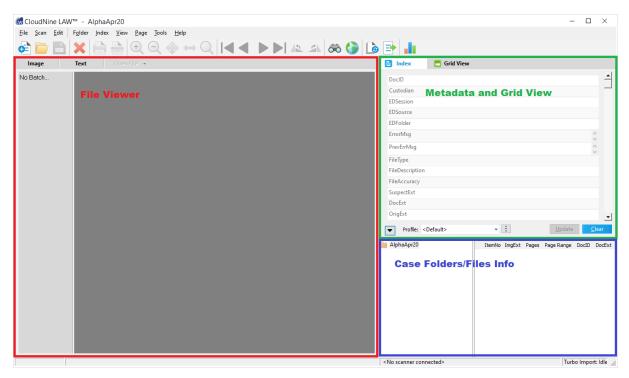


# Using CloudNine LAW

# **Getting Started**

# Main User Interface

The main window for CloudNine<sup>™</sup> LAW provides a top-level view of the case and provides access to the tools you use to perform discovery tasks.



If a case is currently open, the associated case name will be visible in the title bar of the window. Directly below the window title bar are several menu options and a toolbar with easy access to commonly used features. The available menus will change depending on whether a case is currently open, and whether the case is a Turbo Import or ED Loader case. Below the toolbar are the three main viewing areas for LAW.

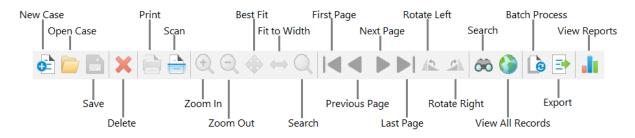
# **CloudNine™ LAW Main Menus**

- File Use this menu to create new files, open existing cases, print or send items, import items, and perform case administration.
- Scan Provides utilities for selecting and configuring a scanner.
- Edit- Contains many quality control features. For example, you can use this menu to: insert items, replace items, work with attachments, and to merge, move, split, or auto-

number items. You can also view page details and properties, and delete documents, pages, and folders.

- Folder Provides functionality for working with folders.
- **Index** Provides access to tools for creating and managing fields, and for working with page IDs.
- View Provides controls for manipulating the view of the currently selected image.
- **Page** Provides page navigation, OCR flagging, and image enhancements.
- **Tools** Provides access to tools for batch processing, export, deduplication, near duplication, annotations, barcodes, viewers for TIFFs and logs, OCR tools, full text indexing, searching, and options for CloudNine<sup>™</sup> LAW.
- **Help** Provides help topics, user manual, bug reporting, update checker, and versioning with licensing information.

# CloudNine™ LAW Toolbar



# CloudNine<sup>™</sup> LAW Main Viewing Areas

- File Viewer section where you can view image or text files
- Metadata and Grid View area where file metadata is displayed and search results are viewed
- Case Folders/Files Info shows the folder structure for the current case, and lists the files and file info within each folder

# **CloudNine™ LAW Updates**

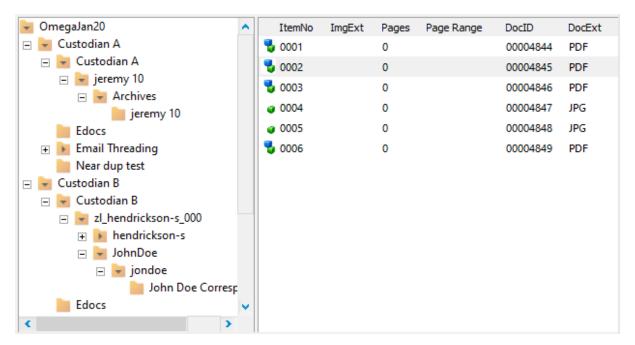
When CloudNine LAW opens, if an internet connection is available, it will check for any program updates and display **Update Available** if appropriate in the upper right corner.

Update Available!

You can disable this update check by selecting **Options** on the **Tools** menu. Go to the **Preferences** tab, and unselect **Notify if new version available**.

# **Folders and Files**

A list of the case folders and the files they contain can be viewed in the lower right of the main LAW window.

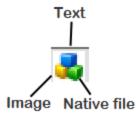


# **Folder and Item Fields**

The list on the right shows all the items within the selected folder. Items that are indented with two dashes are considered attachments to the non-indented record above. This list can contain any of the following details:

- **ItemNo** Displays records contained within the folder, resetting to 0001 at the start of each new folder. An indented item indicates an attachment to the previous record.
- **ImgExt** Identifies the type of image based on the image extension. This column will only be populated if an image document state exists.
- **Pages** Identifies the Page Count of the document. This will only exist when an Image document state exists.
- **Page Range** Displays the start and end page numbers within a document range. This will only exist when documents are in image format and a Page ID has been assigned.
- **DocID** Identifies the DocID assigned when electronic files are loaded via the Electronic Discovery Loader or Turbo Import.

• **DocExt** - Identifies the document extension of the native file.



In addition to the details above, the first column in the item list includes one or more visual indicators identifying key information for the record:

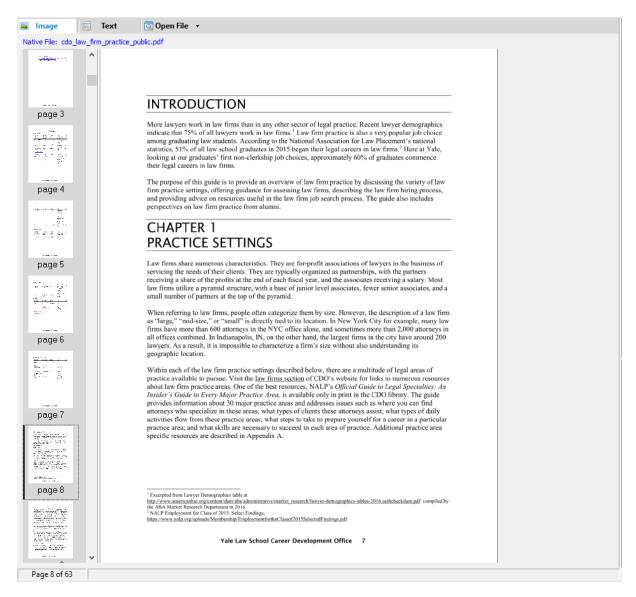
- **Image** (Yellow Cube) indicates an image exists for the record. The record must have been converted to TIFF or PDF, scanned or imported via raw images or a load file. This item is viewable in the image viewing area on the left.
- **Text** (Blue Cube) indicates that text exists for the record. The text may be a result of extracted text, printed text, or OCR.
- Native File (Green Cube) indicates a native file exists for the record.

# **Customizing the Item Fields**

You can choose which information you want to see in the item list. Simply right-click on one of the column headers and then select or deselect the fields in the checkbox list that is displayed.

## Viewing Images

You can use the **Image** tab in the File Viewer to see the image associated with the currently selected document, if applicable.



The image displayed corresponds to the document selected in the Folder/File Info section in the lower right-hand corner.

Thumbnails are displayed to the left of the Image Viewer, showing each page in the document.

For more information on working with pages in the image viewing area see <u>Working with</u> <u>Images</u>.

You can choose to disable the Image Preview functionality if needed. See <u>Disabling</u> <u>Image Preview</u>. If the image preview is disabled, then the images will only be viewable after the files are tiffed.

# **Viewing Text**

You can use the **Text** tab in the File Viewer to see the text associated with the currently selected document, if applicable.

ative File: cdo_law_f	rm_practice_public.pdf	
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	DOL • CAREER DEVELOPMENT OFFICE • NEW HAVEN, CT	
www.law.yale.		
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	Summer 24	
<ol> <li>Suggested T</li> </ol>	imetables for Job Search Activities	
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A. Practicing in	the Northeast	
	the Mid-Atlantic	

The text displayed corresponds to the document selected in the Folder/File Info section in the lower right-hand corner. There are four types of text files: text extracted during import, text extracted during conversion to TIFF, text obtained through OCR, and text files linked to a document.

The Text tab at the top of the File Viewer may include additional icons indicating an OCR status. For more information about the flags, see <u>OCR Overview</u>.

# **Opening Native Files**

If a native file exists for a document, the **Open File** tab is enabled. You can use the dropdown to access options for opening the file with the application you choose, or click on the **Open File** tab to automatically open the file with the associated application based on the file type.

Image 📰 Text	🕽 Open File 👻	
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	Hex Editor	
Law Firm Practice	Internet Explorer	
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YALE LAW SCHOOL • CAREE	Microsoft Word	AVEN, CT
www.law.yale.edu/cdo	Notepad	
Law Firm Practice * 2	Quick View Plus	
	Choose <u>P</u> rogram	
N	Change Source Application	·
Table of Contents		-
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Introduction	Quick View Plus Review Mode	
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	est to Large Firm	
B. Suggested Timetables for		25
	es	
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For more information on working with native files, see Launching Native Files.

# **Viewing Metadata**

Within the top right of the LAW main window, the **Index** tab shows metadata corresponding to the selected document.

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<u>Scan Edit</u> F <u>o</u> lder Index <u>V</u> iew <u>P</u> age <u>T</u> ools <u>H</u> elp			
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	Edocs		

The metadata displayed corresponds to the document selected in the Folder/File Info section in the lower right-hand corner. Navigate through the metadata list via the scrollbar on the right. The fields that display are determined by the Profile that is selected at the bottom of the metadata display. For more information about customizing the field views, see <u>Index Profiles</u>.

# **Grid View**

Within the top right of the LAW main window, the **Grid View** tab shows a tabular view of selected documents/pages. This is also known as the Embedded Grid View.

CloudNine LAW™ - OmegaJan20	
e <u>S</u> can <u>E</u> dit F <u>o</u> lder <u>I</u> ndex <u>V</u> iew <u>P</u> age <u>T</u> ools <u>H</u> elp	
Image 📰 Text 💽 Open File 👻	🖹 Index 📄 Grid View
tive File: coffee_aba_national_institute_on_class_actions.pptx	
	Drag a column header here to group by that column.
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	00000038 Custodian A Export-004 \\Cev-fs02\ Loose E-ma
	00000039 Custodian A Export-004 \\Cev-fs02\ Loose E-ma
	Record: I

The Grid View is not populated by default. In order to view data in the embedded Grid View, run a query using the Query Builder and specify that the results should be sent to the embedded grid view. The Grid View has its own toolbar that is independent of the toolbar at the top of the main window.

For more information about grids, see Launching the Grids.

# Working With Cases and Projects

# **Creating a New Case**

The first process in CloudNine<sup>m</sup> LAW is to create a new case. The following facts apply to cases:

- A *case* is the basic unit of organization in CloudNine<sup>™</sup> LAW. It consists of a database that tracks source documents, extracted data, metadata, images, and other files.
- Before you can begin working in CloudNine<sup>™</sup> LAW, you must create a case or open an existing case.

- A *case list* is a list managed in SQL that records the name and file path of all the cases that LAW has opened or created. The case list can be viewed in the New Case dialog.
- By default, a local case list is created in SQL for new installations. See <u>Caselist</u> <u>Options</u> for more information.
- Case lists are migrated in SQL database using the LAW Configuration Utility.
- Whenever multiple users share a case list, if one station adds or removes a case, the changes are immediately visible to all other stations.
- ▲ When using LAW with UAC (User Account Control) enabled, it is recommended that you do not create cases under the Program Files or Program Files (x86) folder. This is a protected location in Windows and therefore the case folder is redirected to the virtual store. This virtual store is located in the profile of the current user (ex. C: \Users\<User>\AppData\Local\VirtualStore\Program Files (x86)\Law50\Cases). Some functions in LAW will not work properly when this data redirection occurs. To avoid this issue you can disable UAC (NOT recommended) or create cases in a network location or other location not treated as a protected location by Windows.

The C:\Program Files, C:\Program Files (x86), C:\Program Data, and My Documents directories are treated as protected locations and should not be used for storing case files.

#### To create a new case

1. On the **File** menu click **New Case** or alternatively click the New Case icon from the toolbar. The **New Case - Properties** dialog box appears.

New Case - Properties	×
Case Name: (Required)	Case Status:
New Case	Active 🗸
Case Description:	
Enable Electronic Discovery	
ED Loader	◯ Turbo Import
Case Template	Client or Project Name
<blank case=""></blank>	<none>      Edit</none>
Database Engine	
SQL Server/SQL Express	- SQL
<u>D</u> atabase:	Server Name:
New Case	0.0018-00240
✓ Use Windows Authentication	
User Name:	Password:
Case Paths	
Case C:\LAW Cases\New Case\	Browse
lmage	
C:\LAW Cases\New Case\	Browse
Append case name to case paths	
Created Date: N/A	
Date Last Opened: N/A	
Date Deactivated: N/A	<u>O</u> K <u>C</u> ancel

2. Configure the case using options as described in the following table.

Option	Description
Case Name	The name should be unique and must adhere to file name requirements of the host operating system. For example, the case name may contains spaces but cannot contain any of the following special characters: $\setminus / : * > < \mid$ There is a 120 character limit for all case names.
Case Description	Type a description of the case in this optional field. Case descriptions are visible when you open a case.
Enable Electronic Discovery	Selected by default or if the prior case created was an electronic discovery case. When enabled the case is registered for electronic discovery and any files added are available to electronic discovery tools.
ED Loader	This enables the files to be imported through ED Loader.
Turbo Import	This enables the files to be imported through Turbo Import.
	Turbo Import cases are not eligible for importing (dii or opt) load files, or case to case imports.
Case Template	If enabled, you can select a template to apply to this case. A case template specifies a pre-determined of selections of case options. For more information see <u>Case Templates</u> .
Client or Project Name	If enabled, you can select a client or project name to associate with the case. Select Edit to display the Project Administration dialog to modify your project list.
Database Engine	Select your database type: either SQL Server or Access.
	Database: Defaults to the Case Name.
	Server Name: Name of the SQL server instance.
	Use Windows Authentication: This should be selected for Windows Authentication, otherwise you need to enter a User Name and Password that has access to your Database.
Case Paths	Specifies the paths where case files are stored. The Case and Image path may be entirely different. A UNC path is recommended.
	The case paths must point to a network drive that can be identically mapped for all stations if using multiple LAW Stations. For example, if you create a case on a mapped network drive <code>z:\SomeCase</code> then any other computer intended

Option	Description
	to use that case must also be able to map a drive to z: $\someCase$ . Mapped drives are not recommend in the paths for Turbo Import databases.
Append case name to case paths	Creates new folders under the default directory for the case and image files using the same name as the case. This option is enabled by default. When disabled, all cases and images are stored in the default directory.
3. Click <b>OK</b> .	

#### What to name cases

As the case list grows, it can help to implement a naming scheme for cases. Applying a consistent and intuitive naming scheme can make is easier to find cases and ensure that the right case is selected as the target for importing documents and for other processing.

There is a 120 character limit for all case names.

Below are some examples of possible naming schemes:

- Client\_JobNumber\_InvoiceID
- Client\_Matter
- Client\_Matter\_JobNumber
- Date\_CaseName
- CaseName\_StartDate
- Client\_JobNumber\_Today'sDate
- Client\_Invoice\_JobNum

## **Case list Options**

The case list in LAW is the table of contents for your LAW databases.

Migration of existing cases in LAW version 7.2+ is handled by the LAW Configuration Utility. See Migrating Existing Cases in version 7.2+

For LAW 7.0 or 7.1, you can migrate existing cases following these instructions:

1. Browse to C:\Program Files (x86)\LAW50\ and double-click on CaseListMigration.exe to open it.

Case list details	
Case list Path :	
Server: Ingrdul-7009084\Jaw_2	
Use Windows Authentication	
Username : law_user	
Password : ******	
Database: LAW5_Management	
<press begin="" migration="" start="" to=""></press>	
<u>S</u> tart <u>E</u> xit	

- 2. **Case list Path:** Browse to the path of the case list and select caselist.mdb
- 3. Server: Enter the SQL server instance name
- 4. Use Windows Authentication: You may select this checkbox if you choose to use Windows authentication instead of SQL authentication. The Username and Password are populated by default should you choose to use SQL authentication.
- 5. Click the <u>Start button</u>. When complete you will see a CaseListMigration dialogue box

CaseListMigration
Caselist migration process completed successfully.
ОК

You can import from one or more caselist.mdb files if necessary. You must use the UNC path for the case list path and not a mapped drive.

### Working with Existing Cases

There are several ways that you can work with cases:

- Open cases. There are several ways to open a case.
- View case properties. See section below for detailed list.
- Delete a case. When you delete a case, you have the choice of backing up the case before deleting it, or deleting the case without creating a backup.
- Disable SQL case database deletion. You can remove the options from within LAW that allow users to permanently delete SQL case databases.

#### **To open an existing case**

Open Case Х

1. On the File menu click Open Case. The Open Case dialog box appears.

Case Manager						
📄 <u>N</u> ew Case 🛯 Browse 🌁 Properties 💢 Delete From List 📲 P <u>r</u> oject/Client View						
Recent Cases Active	Cases <u>A</u> ll Cases					
I						
DB Type CaseName SQL OmegaJan20	Description	DateCreated 2/20/2020	DateLastOpened 4/13/2020			
LAW Demo Case SQL AlphaApr20 SQL EDL Alpha Jan SQL TI Omega 01797	Demo Scanned Images	1/12/2006 4/10/2020 1/29/2020 1/31/2020	4/10/2020 4/10/2020 4/10/2020 1/31/2020			
Delete SQL databases from     Perform backup before	n server on case deletion re deleting database from server					
Expand All Collapse All		<u></u> K	<u>C</u> ancel			

- 2. Navigate to a case by using either the Recent Cases, Active Cases, or All Cases tabs.
  - © 2024 CloudNine™. All rights reserved.

- **Recent Cases:** Lists the last ten cases that were opened.
- Active Cases: Lists only active cases
- All Cases: Lists all cases and includes searching capabilities. You can search for a case by either the case name or by the creation date. To utilize the Search feature, first select the desired search method: CaseName or DateCreated. As letters or numbers are entered into the adjacent box, the cases that correspond to those beginning characters appear in the list.
- 3. Select a case and then click **Open**.

#### To open a case by browsing

- 1. On the File menu click Open Case.
- 2. In the **Open Case** dialog box, click **Browse**.
- 3. Browse to the case folder and then select the project database or ini file (project.mdb, project.add, or project.ini).
- 4. Click **Open**. One of the following results occur:
  - The case opens and is added to the case list.
  - If the case is already in the case list, a message will appear stating that the case is already in the list.
  - If the case name conflicts with a case name already in the case list, you are prompted to enter a new case name.

#### To open a case using a DOS command

You can open a case by using a command by using the Run window or the command prompt.

For example, to open a LAW case called LAW Demo Case:

- 1. Click **Start** and then click **Run**.
- 2. Type the command, including quotes (""), into the text box, substituting your case name for LAW Demo Case:

"C:\Program Files\Law50\Law50.exe" LAW Demo Case

3. Click **OK**.

#### To view case properties

1. On the File menu click Open Case. The Open Case dialog box appears.

- 2. Select a case and then click **Properties**. The **Case Properties** dialog box appears with the following information:
  - Case Name
  - Case Description
  - Whether electronic discovery is enabled or not
  - Whether ED Loader or Turbo Import is selected.
  - Case template from which the case was derived
  - Client or Project Name
  - Case and Image Paths
  - Created Date
  - Last Opened Date
  - Case status as active or deactivated, and date of deactivation

#### To delete a case

- 1. In the main form, on the **File** menu click **Open Case**. The **Open Case** dialog box opens.
- 2. Select a case.

📄 Open	Case			- 0	×			
Case Manager								
🛛 New Case 🚱 Browse 🎢 Properties 💥 Delete From List 🍹 Project/Client View								
Recent	t Cases Ac <u>t</u> ive C	ases <u>A</u> ll Cases						
DB Type	CaseName	Description	DateCreated	DateLastOpene	d			
P	LAW Demo Case	Demo Scanned Images	1/12/2006	4/13/2020				
SQL	OmegaJan20		2/20/2020	4/13/2020				
SQL	AlphaApr20		4/10/2020	4/10/2020				
SQL	EDL Alpha Jan		1/29/2020	4/10/2020				
SQL	Tl Omega 01797		1/31/2020	1/31/2020				
🗌 Dele	te SQL databases from	server on case deletion						
- F	Perform backup before							
<u>E</u> xpand	All C <u>o</u> llapse All		<u>0</u> K	<u>C</u> an	cel			

- 3. Select deletion options as needed:
  - Delete SQL databases from server on case deletion will remove the database and log files from SQL Server.

- It is recommended to leave **Perform backup before deleting database from server** enabled.
- 4. Click **Delete from List**. The **Delete Case** dialog box appears to confirm deletion. Click **Yes** to proceed.
- 5. Follow prompts either to save the database, or permanently remove the database from the case list and from SQL Server.
- ▲ Whenever you delete a case from SQL Server, you are strongly recommended to create a backup copy of your case database. You can disable the option to delete SQL case databases from within CloudNine<sup>™</sup> LAW. For more information on disabling the LAW option to delete SQL case databases, see the next section in this topic.

#### To remove options for deleting SQL databases

You can remove the options that allow users to delete SQL databases. Removing these options can help to mitigate the risk of data loss caused by users mistakenly deleting the SQL database from within CloudNine<sup>™</sup> LAW.

You can disable or re-enable options to delete SQL cases by editing the law50.ini file. After the options to delete SQL cases are disabled, you can still remove a case from the case list but this action does not delete the SQL database.

If you want to re-enable options to delete SQL databases, you can edit the INI file again and remove the lines described in the steps that follow.

- 1. Close CloudNine<sup>™</sup> LAW.
- 2. Use Windows Explorer to open the installation directory for CloudNine<sup>™</sup> LAW. The default path is C:\Program Files (x86)\Law50.
- 3. Open Notepad or some other text editor and then open law50.ini for editing.
- 4. Insert a new line.
- 5. Type the following on the new line:

```
[Administration]
```

DisableSQLDatabaseDeletes=1

- 6. Save the file and then close the text editor.
- 7. Start CloudNine<sup>™</sup> LAW.
- 8. On the File menu, click **Open Case**. The **Open Case** dialog box opens.

😢 Open	💱 Open Case 📃 🗖 🔀							
0	🔁 Open Case							
_ <u>N</u> ew (	📄 New Case 🛯 Browse 🚰 Properties 💢 Delete From List 🔋 Project/Client View							
Recer	nt Cases	Ac <u>t</u> ive Cas	es	<u>A</u> ll Cases				
DB Type	CaseName		Descrip	otion		DateCreated	0	)ateLastOpened
SQL	ImportLogs					7/25/2011	7	7/25/2011
P						7/22/2011	7	7/22/2011
SQL					7/21/2011	7	7/21/2011	
SQL	CC_LAB02_	.07032011 Case for Lab 2			7/3/2011	7	7/3/2011	
SQL	CCC_Lab00	1_01102011	_01102011 Review Lab 1			7/3/2011	7	7/3/2011
SQL	SQL         AWD_20110518_EDD002           SQL         CMW_02222011_EDD002         Case for day 2				7/3/2011	7	7/3/2011	
SQL			Case f	or day 2		7/3/2011	7	7/3/2011
SQL	<b>ሚ፤</b> CC_11112011_EDD01 በ		Case f	or Day 1 of EDD course	э.	7/1/2011	7	7/1/2011
Expand All Collapse All					ОК		Cancel	

The option to delete SQL databases is no longer available.

# Case Templates

You can save the folder structure and field for reuse when creating a new case in a case template. Case templates are saved in XML files in the  $..\LAW50\Templates$  folder. The file name is the same name as the template.

#### To save a case template

On a computer that has a LAW Admin license, you can save a case template from the File or Index menu.

#### To save a case template from the File menu:

1. On the File menu click Administration, and then click Save Case Template. The Save Case Template dialog box appears.

Save Case Template					
Template Name: TITest75 Template					
Folder Settings					
Save Folder Structure with Template	ОК				
Top level folders (ONLY)	Cancel				

- 2. Apply a folder setting.
  - Select **Save Folder Structure with Template** to save the current folder structure and field information of the case.
  - Select **Top level folders (ONLY)** to configure the template so that it consists of field information and only the folders located one level below the root.

#### To save a case template from the Index menu:

- 1. On the **Index** menu click **Modify Fields**, and then click **Save Template**. The **Save Case Template** dialog box appears.
- 2. Apply a folder setting.
  - Select **Save Folder Structure** with Template to save the current folder structure and field information of the case.
  - Select **Top level folders (ONLY)** to configure the template so that it consists of field information and only the folders located one level below the root.

For more information on working with fields, see Creating Index Fields.

#### To apply a case template

#### To apply the case template at the time of case creation:

- 1. On the File menu click **New Case**.
- 2. Select a database and then click **OK**. The **New Case Properties** form appears.
- 3. Clear Enable Electronic Discovery for this case.
- When you create a new case with Electronic Discovery enabled you cannot apply a case template at the same time, but you can apply a template to such a case

after you create it. See **To apply a template to an existing case** in this topic.

- 4. Select a template from the **Case Template** list.
- 5. Fill out the rest of the form, and then click **OK**. A previously created template is applied to the new case. The template will have index fields and may also specify a folder structure for the new case.

#### To apply a template to an existing case

- 1. Open a case.
- 2. On the File menu click Administration, and then click Apply Case Template. The Select Case Template dialog appears.

😡 Select Case Template	2					$\times$
← → · ↑ 🔒 → Th	is PC → OS (C:) → Program Files (x86) → LAW	50 > Templates		✓ Č	rch Templates	
Organize 🔻 New folde	er					
Graphics	Name	Date modified	Туре	Size		
Graphics	#Default.xml	4/9/2020 8:11 PM	XML Document	1 KB		
Logs	E-Discovery.xml	4/9/2020 8:11 PM	XML Document	10 KB		
OneDrive						
💻 This PC						
🗊 3D Objects 💷						
Desktop						
Documents						
🕂 Downloads						
👌 Music						
Pictures						
SourceData (Cev						
Videos						
🛀 OS (C:)						
File <u>n</u>	ame:			Case Tem	nplates (*.xml)	•
				<u>O</u> pe	n Ca	incel

- 3. Select a template and then click **Open**.
- 4. A listing of the fields that will be added to the case appears. Any field names that are duplicates of existing fields are ignored. Click **Yes** to proceed.

The index fields and folder structure (if any) stored in the template will be applied to the case in addition to any already existing fields and folders.

To use an alternate method of applying a case template, on the Index menu click Modify Fields, and then click Apply Template. Follow the instructions above to apply the template.

### To modify fields in the #Default.xml template file

The #Default.xml file is the default case template installed with CloudNine<sup>™</sup> LAW. The #Default.xml file determines the default case properties, including fields, automatically defined for a case when a case is created, unless another case template is applied when the case is being created. To create this file,

1. Browse to the C:\Program Files (x86)\Law50\Templates folder.

2. Make a copy and past the "E-Discovery.xml" into the same folder and rename it "#Default.xml"

The #Default.xml file is stored in the Templates folder within the LAW installation folder (...\Progam Files\Law50\Templates). In CloudNine<sup>™</sup> LAW, if you want each new case to be created with specific fields, you can modify the #Default.xml template file so that when a new case is created in CloudNine<sup>™</sup> LAW, the case is automatically populated with the fields you defined in the #Default.xml file

- 1. Browse to C:\Program Files (x86)\Law50\Templates folder.
- ☑ If your LAW shortcut is pointing to a shared drive, please use the **#Default.xml** file in that location.
- 2. Before modifying the **#Default.xml** file, it is best practice to make a backup copy of the **#Default.xml**.
- 3. Right-click the **#Default.xml** file and open it in a text editor program.
- 4. Copy the text from **<Field1>** to **</Field1>** and paste it under the **</Field1>** line.

<Field1>

<FieldName>\_FTIndex</FieldName> Correspond with the field name

<FieldType>7</FieldType> Corresponds with the type of field please see table below.

<MaxLength>0</MaxLength> Corresponds with the max length of the
field. 0 = no limit

<PageLevel>False</PageLevel> Corresponds if the field is page level or

not

<SpanHeight>1</SpanHeight> `This applies to memo fields only

<Indexed>True</Indexed> Corresponds if the field is indexed or not

<Unique>False</Unique> Corresponds if the field is Unique or not

<Locked>True</Locked> Corresponds with if the field is editable or not

<System>True</System> Corresponds if the field is a system field or

not.

<Visible>False</Visible> Corresponds with if the field is visible in the
index and/or grid view automatically

</Field1>

5. Change **<Field1>** and **</Field1>** to the corresponding field name.

An example would be, for the second added field, change it to <Field2> and </Field2>

- 6. Change the value between **<FieldName>** and **</FieldName>** to match the field name you want in your cases.
- 7. Change the value between **<FieldType>** and **</FieldType>** to the numeric value of the field you would like in the case. Please see field type value chart below:

Field Type:

0 = Text

- 1 = Auto-Increment
- 2 = List
- 3 = Memo
- 4 = Date
- 5 = Numeric
- 6 = Tag
- 7 = Tiny Int
- 8. Change any of the other values that you want for setting up the field.
- 9. Save the file with the same name, **#Default.xml**.
- 10. Create a new case.

The case will automatically be populated with the new and/or modified fields from the **#Default.xml** file. For more information about creating a new case, see <u>Creating a New Case</u>.

## Working With Projects

In CloudNine<sup>™</sup> LAW, assigning cases to projects can make it easier to find and manage cases. When you first create a case, you can assign it to a project or you can assign cases to projects after you create your cases. After cases are assigned to projects, you

can use a tree control that lists projects and member cases to easily navigate to the case you are interested in.

Organizing cases by project can be useful, for example, when you need to work with multiple cases from the same client.

The steps to create a new project vary, depending upon whether you create a project at the same time as you create a new case, or create a project for an existing case.

#### To create a project when creating a new case

- 1. On the **File** menu click **New Case** or alternatively click the New Case icon from the toolbar. The **New Case Properties** dialog box appears.
- 2. Click **Edit** next to the **Client or Project Name**. The **Project Administration** dialog box appears.

			×
Project Ad	Iministration		
📄 <u>N</u> ew Project	📝 Edit Project 🛛 🎉 Delete Project		
Name	Description	CreatedDate	Active DateInactive
		ОК	Cancel

3. In the **Project Administration** dialog box click **New Project**. The **New Project** dialog box appears.

New Project	×
Project Name:	
Project Description	
Project Description:	
Created Date: 4/15/2020 3:30:39 PM	
Project is Active: • Yes No	
Date Deactivated: N/A	
	<u>O</u> K <u>C</u> ancel

- 4. Type a **Project Name** and a **Project Description**.
- 5. Next to **Project is Active**, keep the default, **Yes**, if the project will be initially active, otherwise select **No**.
- 6. Click **OK.** The new project is added to the list.
- 7. Click **OK** to close the **Project Administration** dialog.

#### **To create a project for an existing case**

- 1. On the File menu click Open Case.
- 2. In the **Open Case** dialog box, select a case and then click **Properties**. The **Case Properties** dialog box appears.
- 3. Click **Edit** next to the **Client or Project Name**. The **Project Administration** dialog box appears.

			×
Project Ad	Iministration		
New Project	📝 Edit Project 💥 Delete Project		
Name	Description	CreatedDate	Active DateInactive
		ОК	Cancel

4. In the **Project Administration** dialog box click **New Project**. The **New Project** dialog box appears.

New Project	×
Project Name:	
Project Description:	
Created Date: 4/15/2020 3:30:39 PM Project is Active: • Yes No	
Date Deactivated: N/A	
	<u>Q</u> K <u>C</u> ancel

- 5. Type a **Project Name** and a **Project Description**.
- 6. Next to **Project is Active**, keep the default, **Yes**, if the project will be initially active, otherwise select **No**.
- 7. Click **OK.** The new project is added to the list.

8. Click **OK** to close the **Project Administration** dialog.

#### **<u>To edit project properties</u>**

- 1. On the File menu click Open Case.
- 2. In the **Open Case** dialog box, select a case and then click **Properties**. The **Case Properties** dialog box appears.
- 3. Click **Edit** next to the **Client or Project Name**. The **Project Administration** dialog box appears.
- 4. In the **Project Administration** dialog box, select a project.
- 5. Click Edit Project. The Edit Project dialog displays.
- 6. Edit the project name, description, or active status.
- 7. Click **OK**.

#### To delete a project

- 1. On the File menu click Open Case.
- 2. In the **Open Case** dialog box, select a case and then click **Properties**. The **Case Properties** dialog box appears.
- 3. Click **Edit** next to the **Client or Project Name**. The **Project Administration** dialog box appears.
- 4. In the **Project Administration** dialog box select a project.
- 5. Click **Delete Project**.
- 6. Click **OK** to confirm deletion and **OK** again to close the **Project Administration** dialog.

The project name will revert to **<none>** for any CloudNine<sup>TM</sup> LAW case previously associated with the deleted project.

### Establishing Folder Structures

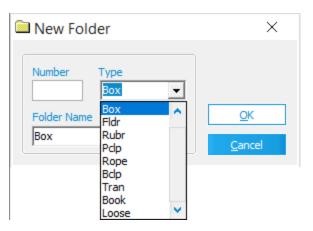
Creating a folder structure in CloudNine<sup>™</sup> LAW will allow better organization of documents and the ability to mimic the structure of the original documents. This helps scanner operators find their place in the case more easily and aids in finding and correcting scan errors. The folder structure is also useful for EDD projects, allowing organization by media type or custodian, for example.

LAW provides a set of pre-defined folder suffixes to quickly create a folder structure, or you can customize the folder names as needed. When naming folders, one important item to note is that the folder structure generally determines the order of processing, i.e. folders are processed in alphabetical order.

- ☑ The files referenced in the document list are not necessarily physically stored in the folders shown in the folder tree. Displaying the records in this manner will allow the desired representation of folders and records to be maintained. For example, folders created via TIFF conversion in LAW are stored in <case root>\\$Image Archive; however, the records will appear in the document list when clicking on the original folder structure created by ED Loader or Turbo Import during import. See the topic related to the type of function being performed in order to see how the associated files are stored.
- ▲ The Folder Structures on this page are for Electronic Discovery enabled cases only. The folder structure can not be altered in Turbo Import enabled cases except by deleting or expanding & collapsing.

#### To create a folder

1. Create a new case or open an existing case.



2. On the Folder menu click New. The New Folder dialog appears.

3. Configure the folder naming scheme.

To apply this naming scheme	F	ollow these steps
The folder name consist of a number followed by a predefined type code,	1.	In the <b>Number</b> field type a number.
, , , ,, ,,	2.	In the <b>Type</b> list select a source type.

To apply this naming scheme	Follow these steps
	The <b>Folder Name</b> field previews the name of the folder that will be created.
The folder name consists of custom text.	1. Delete any text in the <b>Folder Name</b> field and then type the name of the folder.

5. Click **OK**. The new folder is created as a subfolder of the currently selected folder. To create a new folder on the same level as the current folder, select the parent of that folder prior to adding the new folder.

#### **<u>To automatically create a folder series</u>**

LAW also provides a quick and easy method for creating a series of folders. The Auto-Create feature automatically creates the next logical folder on the same level as the current folder. For example, if currently in "C:\Case1\0001Box\0001Fldr" and Auto-Create is selected, LAW creates "C:\Case1\0001Box\0002Fldr" and makes that the current folder.

• On the Folder menu click Auto-Create.

Or

• Right-click a folder that will contain the folder series and then click **Auto-Create**.

Note the following considerations when auto-creating folders:

- If the next logical folder already exists, LAW will jump to that folder and make it the current folder.
- The next folder is created on the same level as the current one.
- Folders cannot be auto-created while the root image folder is selected, as this would create a folder outside of the root case folder.
- On the Folder menu if you select **Auto-Create N Folders** you can to create up to 999 folders automatically with names based on the current folder.

#### To expand or collapse folders

- 1. On the main interface in the tree view select a folder.
  - Any subfolders appear in the folder tree.
  - Any files contained in the folder appear in the document list below the folder tree.

2. As necessary you can expand or collapse folders and subfolders as described in the following table:

To perform this action	Do this
Expand a folder to view one level of subfolders.	• Click the plus sign next to the folder.
Expand all folders below the selected folder.	• On the Folder menu click Expand.
Collapse a folder.	• Click the minus sign next to the folder.
Collapse all folders below the selected folder.	• On the Folder menu click Collapse.

✓ The files referenced in the document list are not necessarily physically stored in the folders shown in the folder tree. Displaying the records in this manner will allow the desired representation of folders and records to be maintained. For example, folders created via TIFF conversion in LAW are stored in <case root>\\$Image Archive; however, the records will appear in the document list when clicking on the original folder structure created by ED Loader or Turbo Import during import. See the topic related to the type of function being performed in order to see how the associated files are stored.

## **To delete a folder**

- 1. Select a folder to delete.
- 2. On the Folder menu click Delete.
- ✓ To prevent accidental deletion of an entire folder tree, all subfolders of that folder must first be deleted. Similarly, the root case folder cannot be deleted from within CloudNine<sup>™</sup> LAW.

#### **To rename or move a folder**

- 1. Select a folder to rename.
- 2. On the Folder menu click Rename.

Note the following considerations when renaming folders:

• The folder name must not contain any characters that the operating system cannot support (i.e. ? / \).

- The root case folder cannot be renamed.
- When a folder is renamed, the path for all documents in and below that folder must be updated to reflect the name change. This process can take some time if the folder is near the top of the case, depending on the number of documents affected by the name change.
- If the number of documents affected by folder renaming is near or greater than 10,000 the folder renaming process could fail due to file locking. The upper limit is typically > 10,000. If such an error occurs, you can edit a setting in the registry to allow the renaming of the folder to proceed. Contact CloudNine for specific details if this occurs.

#### To move folders

- 1. In the folder tree click the folder to be moved.
- 2. Do one of the following:
  - On the Folder menu click Move.

Or

• Right-click the folder and then click **Move**.

The **Move Folder** dialog box displays the same folder structure as the tree in the main interface.

- 3. Select the folder into which the folder should be moved or create a new folder.
- 4. Click Accept.

The folder will be moved to the designated location. This process may take longer to complete for folders containing a large number of documents.

Note the following considerations when moving folders:

- You can move any folder below the root folder that is displayed in the folder tree.
- All subfolders and records contained in the folder will be moved to the new location as well.

#### Folder properties and document area summaries

Summaries for folder properties, images, and document area are available. These are described in the following table:

Type of summary	Description
Folder properties	LAW provides a means to get a quick summary of a folder that

includes the actual location, size, and number of files and subfolders

Type of summary	Description
	within it. The size and number of files displayed will include all files in and below the current folder. To view the folder properties for a specific folder, click the desired folder and select Properties from the Folder menu.
Area of images and documents	LAW provides a summary view of the images contained within a folder and subfolders. The image summary displays a report of the number of documents and pages contained within a selected folder. LAW also calculates the <b>Total Area</b> of the documents contained within the folder. The total area information can be very useful for billing purposes.
	As noted in the message box (ED-enabled cases only), electronic files and their printed images are skipped during this image summary process. The number of skipped records will be listed in the summary output, in addition the number of scanned images.
	To calculate the square footage of the documents, LAW must open and read each image individually, which takes an additional amount of time.
	For a faster document or page count:
	• Use the Query Builder or Grid View to create a query on the selected folder, and then on the <b>Tools</b> menu click <b>Summary</b> to view the document and page totals.
	Or
	<ul> <li>Use the Case Summary feature. On the File menu click Administration and then click Case Summary.</li> <li>When you use Case Summary you select a date range prior to summarizing the data. The summary provides the number of pages flagged for optical character recognition (OCR) and the number of pages that the OCR process completed.</li> </ul>

# Working with Fields

Fields are storage containers that hold the various forms of metadata associated with case documents and pages. For example, each document in a case has a DocID field. The actual contents of the DocID field will vary from document to document. Field contents serve as the basis for searching, sorting, and many purposes that are project-specific.

For each case, LAW automatically creates a basic set of fields, such as DocID, OcrStatus, and many others. For a complete list of the predefined fields that are created with every case, see: Field Descriptions.

In addition to the fields that are created by default, you can create fields to suit your own purposes. Whether provided by default or created by you, every field in LAW belongs to one or another data type. For more information on data types in CloudNine<sup>™</sup> LAW, see: <u>Manipulating Fields</u>.

This topic describes the types of data you can store in fields, whether a type can be applied to at the document or page level, and how fields are created.

#### Field types

Each field type stores a different type of data. Field types, the kind of data each can hold, whether it can be applied to a page or a document, and implementation notes are described in the following table:

Field type	Type of data it can hold	What it can be applied to	Notes					
Text	text	Pages or documents	Can hold up to 255 characters.					
AutoIncre ment	text	Documents only	Automatically increments from one document to the next if no other value is specified.					
Date	dates	Documents only	A date formatted as: mm/dd/yyyy					
List	text	Documents only	You create a list of text items. Only these items will then appear in a drop-down list for the field on the <b>Index</b> tab. To modify listed values select the field and then click the <b>Edit List</b> . For detailed information on setting up List fields, see: <u>Working with List Items</u> .					
Memo	text	Documents only	Can exceed 255 characters.					

Field type	Type of data it can hold	What it can be applied to	Notes
			Note, you can use the Span Height option to adjust the number of rows displayed on the embedded grid. Memo fields cannot be indexed.
Numeric	number s	Pages or documents	Can hold any numeric value between: -2147483647 and 2147483648.
Tag (Boolean)	Y or N (yes or no)	Pages or documents	In a grid, a check mark indicates Y. In Query Builder, use Y or N to designate a Yes or No value. See the <u>Tagging Records</u> section for more information.

### System fields, extended properties, and user-defined fields

Some fields are created automatically by LAW as a part of creating a case and performing other operations. For example, LAW automatically creates DocID and PageNumber for you when you create a case. These are called system fields and are listed in the in the Field Descriptions topic.

Extended property fields are a special kind of system field that can be created during import of electronic discovery or extraction of custom metadata by the Batch Processing utility. When you use ED Loader to import items into your case or use the Document Processing/Analysis feature in the Batch Processing utility, you can set options to extract custom metadata from certain types of documents. This custom metadata is stored in fields called extended properties. The names of these fields all begin with *EP*. If a case has extended properties, its HasExtProps system field is set to Y. For more information on enabling extracting custom metadata upon import, see: <u>Metadata</u>. For more information about extracting custom metadata using the Batch Processing utility, see: <u>Extracting Custom Metadata</u>. For more information on viewing extended properties in grids, see: <u>Customizing the Grid View</u>.

By comparison to system fields created by CloudNine<sup>™</sup> LAW, user-defined fields, sometimes called custom fields, are fields that you create yourself to assist in performing any number of tasks. For example, you might want to create fields to store billing information, or to track where a document is in your production workflow. For more information on creating custom fields, see: <u>Manipulating Fields</u>. Note that custom fields are imported along with other case data when you import another case into the current case. For more information on importing cases, see: <u>Importing Cases and Load Files</u>.

#### Determining field scope

Fields scope, or whether a field may be applied to documents or to individual pages, is determined by its membership in one of three possible tables in the LAW case database:

- **Page table.** This table includes fields whose scope is set to the page level. For example, PageID can only be applied to individual pages within documents.
- Document table. This table includes fields whose scope is set to the document level. For example, DocID can only be applied to documents and not to individual pages.
- **Extended table.** This table includes fields whose origin is with the metadata of the source document. Extended properties are created during import to ED Loader if metadata extraction is enabled. Every extended property corresponds to custom metadata found in native documents and therefore apply to entire documents, and not to individual pages.

## <u>To determine whether any field belongs to the Page, Document, or Extended</u> <u>table</u>

- 1. On the Index menu, click Modify Fields.
- 2. Scroll to the field name in question, and then check the value in the **Table** column for the field in question. Note also that extended properties are prefaced with *EP* in their names.

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	Field Order:	
EPUserComment	Extended	Text	1					DocID	
EPWhiteBalance	Extended	Text	1					Custodian	
EPXResolution	Extended	Text	1					EDSession EDSource	
EPYCbCrPositioning	Extended	Text	1					EDFolder	
EPYResolution	Extended	Text	1					ErrorMsg	
ErrorMsg	Document	Memo	1				~	PrevErrMsg	
FileAccuracy	Document	TinyInt	1		1		~	FileType	
FileDescription	Document	Text	1		$\checkmark$		~	FileDescription	
Filename	Document	Memo	1		$\checkmark$		~	FileAccuracy SuspectExt	
Filesize	Document	BigInt	1		1		~	DocExt	
FileType	Document	Numeric	1		~		~	OrigExt	
Footer	Page	Numeric	1		~			SourceApp	
From	Document	Text	1		~		~	Filename	
HasAnnotations	Document	Text	1		1			Filesize EDPages	
HasBookmarks	Document	Text	1		~			Title	
HasComments	Extended	Text	1					Subject	
U	Dennet	T	4					Author	

## **Manipulating Fields**

The following facts apply to index fields in CloudNine<sup>™</sup> LAW:

- LAW provides many built-in fields. However, you define as many new fields as you need to support specialized queries.
- When a new case is created, and **Enable Electronic Discovery for this case** is selected, all fields necessary for processing electronic discovery or Turbo Import (depending on the type selected) are created automatically.
- Field information for each record is displayed on the **Index** display on the main form to the right of the main image window.
- Use the **Modify Fields** dialog box to add, delete, and update existing fields.

## To add, delete, and update existing fields

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible		Field Order:	
_DocCat	Document	Numeric	1	2	2				DocID	
DupID	Document	Numeric	1	<b>V</b>	<b>V</b>				Custodian	
DupMethod	Document	TinyInt	1		$\checkmark$				EDSession EDSource	
FTIndex	Document	TinyInt	1	2	~				EDSource	
GUID	Document	Text	1		$\checkmark$				ErrorMsg	
PS ARCX	Document	TinyInt	1		<b>V</b>				PrevErrMsg	
PS_ATTX	Document	TinyInt	1		~				FileType	
PS DIGESTX	Document	TinyInt	1						FileDescription	
PS EMBEDX	Document	TinyInt	1		<b>V</b>				FileAccuracy SuspectExt	- 1
PS MDX	Document	TinyInt	1						DocExt	
PS NATIVEX	Document	TinvInt	1						OrigExt	
PS OLEX	Document	TinvInt	1						SourceApp	
ApplicationName	Document	Text	1				~		Filename	
Attach	Document	Memo	1		V		~		Filesize	
AttachLvl		Numeric	1		V		×		EDPages	
	Document		1						Title	
Attachmt	Document	Text	1					~	Subject	

1. On the **Index** menu click **Modify Fields**. The **Modify Fields** dialog box appears.

- Fields shown in gray are system fields and cannot be deleted or edited.
- Fields shown in black are user-defined fields.
- Fields of Type Memo will show the Row Span value in black.
- 2. Select a field and then apply the following options as needed:
  - Add Field: Opens the Add Field dialog box.

- Delete Field: Deletes a user-defined index field.
- Save Changes: Saves changes after editing field properties.
- Apply Template: Applies an existing case template. See <u>Case Templates</u>.
- **Save Template:** Saves a case template based on the current LAW case. See <u>Case Templates</u>.
- Edit List: Starts the List Editor to allow editing of list field values.
- Field Profiles: Click the arrow to view a list of active profiles, open the Manage Field Profiles dialog, and save a new profile. For more information, see Index <u>Profiles</u>.
- Name: Displays names of system and user-defined fields.
- **Table:** Indicates if a field is contained in the document-level or page-level table of the database.
- **Type:** Lists the type of field (see Field Types below).
- **Row Span:** Indicates how many rows of data will be visible in the Index display (Memo fields only).
- Indexed: Indicates if a field is indexed.
- Locked: Indicates if a field is locked. All system fields will be locked, meaning they cannot be edited.
- Unique: Indicates if a field is set to unique, meaning values in this field must be unique for each record.
- Visible: Indicates if the field is visible on the Index display.
- Field Order: Displays the order of fields in the Index display.
- Active Profile: Displays the name of the profile currently applied in the Index display.\*\*
- Save: Saves any changes made to the active field profile.\*\*
- Save As: Deletes a user-defined Index profile. to be used for storing field order and visibility.\*\*
- **Delete:** Deletes the profile currently selected in the **Active Profile** field. The Default profile cannot be deleted.\*\*

\*\*For more information on index profiles, see <u>Index Profiles</u>.

## To create a new field

1. From the main window, on the **Index** menu, click **Modify Fields**. The **Modify Fields** dialog box opens.

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	•	Field Order:	
_DocCat	Document	Numeric	1		<u>v</u>				DocID	
DupID	Document	Numeric	1		<b>V</b>				Custodian	
DupMethod	Document	TinyInt	1		1				EDSession EDSource	
FTIndex	Document	TinyInt	1	<b>V</b>	~				EDSource	
GUID	Document	Text	1						ErrorMsg	
PS ARCX	Document	TinyInt	1		~				PrevErrMsg	
PS_ATTX	Document	TinyInt	1		~				FileType	
PS DIGESTX	Document	TinyInt	1						FileDescription	
PS EMBEDX	Document	TinyInt	1		<b>V</b>				FileAccuracy	
PS MDX	Document	TinyInt	1						SuspectExt DocExt	
PS NATIVEX	Document	TinvInt	1						OriaExt	
PS OLEX	Document	TinyInt	1		V				SourceApp	
pplicationName	Document	Text	1		V		~		Filename	
ttach	Document	Memo	1		$\checkmark$		v		Filesize	
AttachLvl			1				×		EDPages	
	Document	Numeric	1						Title	
ittachmt	Document	Text	1					~	Subject	

2. Click Add Field. The Add Field dialog box appears.

Add Field		×
Name:		Ĩ
Table:	Document-Level	
Type:	Text -	
	Indexed Unique	
	Insert at top of list	
	<u>O</u> K <u>Cancel</u>	

- 3. Type a unique name for the field.
- LAW reserves many field names. You will not be able to name a field with one of the reserved names or with any custom field that already exists. For more information see Field Descriptions.
- 4. In the **Table** list, select the level.
  - **Document-level** applies the same value to all pages in a document.
  - **Page-level** applies a unique value to each page in a document.

5.	Select	options	for the	database	properties	for the	field:

Option	Description
Туре	The type should reflect the kind of data that will be stored.
	Type choices are:
	Auto-Increment
	• Date
	• List
	• Memo
	• Numeric
	• Tag (Boolean)
	• Text
	For a full description of these field types, see <u>Working with Fields</u> .
Indexed	Select this option only if the information in the field will be unique across records, and you are certain the information will be used frequently as a basis for queries.
	For example, do not apply an index to a Tag (Boolean) field type as this can reduce database performance.
Unique	Applies a uniqueness standard to data stored in the field. Use if the field will be used as a key value.
Insert at top of list	Adds the new field to the top of the current list of fields.

6. Click **OK**.

## To apply an index to a field

In database terms, an *index* refers to a numerical list that the database engine applies to field data. The database engine uses this list instead of the actual data as the basis for sorting and searching. The end result of applying an index to a field is a potential boost in query performance. It is important to note that the database engine does not automatically create an index for any field. Instead, you must assign them yourself and exercise good judgment when doing so because if an index is applied to the wrong kind of field, performance can be impacted negatively.

It is recommended that you follow these guidelines when deciding which fields to apply an index to:

- Apply indexes only to fields that hold unique values.
- Apply indexes only to fields that you expect will be the subject of queries or that you expect will be used as a basis for sorting. There is a performance cost that the database engine incurs with applying an index. So you should apply indexes sparingly and only to those fields you expect you will use the most.
- 1. In the main application window, on the Index menu, click Modify Fields.
- 2. Find the field that you want to index in the list and select the checkbox in the **Indexed** column.
- 3. Select the checkbox in the **Unique** column if you want the values in the field to function as a unique identifier.
- 4. Click Close.

## Considerations for changing field properties

Note the following important considerations before you change a field property:

- Certain field type conversions may cause a loss of data. For example, changing a text field to date field can cause all invalid date values to be cleared. Similarly, changing a memo field to text will cause truncate fields that have greater than 255 characters.
- A unique index cannot be added to an existing field if that field does not contain all unique values.

## To delete a field

- 1. In the main application window, on the Index menu, click Modify Fields.
- 2. Select the field you want from the field list and then click **Delete**.

The field and all data associated with it are deleted permanently from the database.

System fields cannot be deleted. You can tell if a field is a system field if it is displayed in gray in the **Modify Fields** dialog box.

# To manipulate field sequence and visibility

The **Field Order** section of the **Modify Fields** dialog box is used to specify the order in which fields will be displayed in the **Index** display on the main form.

To perform this action	Do this
Add a field to the pane.	• Select <b>Visible</b> for the desired field; the field will be added to the bottom of the list.
Move a field to a different location.	• Drag the field from the <b>Field Order</b> pane to the desired location, and then release the mouse button.
Move multiple fields simultaneously.	1. Use the CTRL or SHIFT key to select multiple fields.
sinucaneousiy.	2. While holding one of these keys, click and drag the fields to the new location and then release the mouse button.
	The fields will be re-ordered on the <b>Index</b> display after closing the <b>Modify Fields</b> dialog box.
Hide or show fields.	Right-click anywhere within the <b>Field Order</b> pane and then select an option:
	• <b>Hide Selected Fields:</b> Hides any fields selected in the Field Order pane. Use the Ctrl or Shift keys to select multiple fields.
	• Hide All Fields: Hides all fields that are currently displayed in the Field Order pane.
	• Show All Fields (User-defined): Leaving currently displayed fields intact, this option displays all user-defined fields in the current LAW case.
	• <b>Show All Fields:</b> Displays all system and user-defined fields existing in the current case.

## Working with List Fields

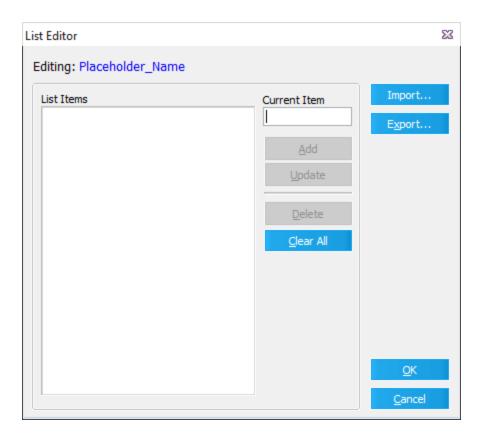
You can work with list items by adding, removing, or editing the items available in a list field. You can import or export list items for reuse across cases. You can also add list items while coding.

## To work with list items

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	•	Field Order:	
_DocCat	Document	Numeric	1	2	2				DocID	
_DupID	Document	Numeric	1	<b>V</b>	<b>V</b>				Custodian	
_DupMethod	Document	TinyInt	1		$\checkmark$				EDSession EDSource	
_FTIndex	Document	TinyInt	1	2	2				EDFolder	
_GUID	Document	Text	1	<b>V</b>	$\checkmark$				ErrorMsg	
_PS_ARCX	Document	TinyInt	1		2				PrevErrMsg	
PS_ATTX	Document	TinyInt	1		<b>V</b>				FileType	
PS_DIGESTX	Document	TinyInt	1		<b>V</b>				FileDescription FileAccuracy	
PS_EMBEDX	Document	TinyInt	1		$\checkmark$				SuspectExt	
_PS_MDX	Document	TinyInt	1		$\checkmark$				DocExt	
PS_NATIVEX	Document	TinyInt	1		$\checkmark$				OrigExt	
PS_OLEX	Document	TinyInt	1		<b>V</b>				SourceApp	
ApplicationName	Document	Text	1		<b>V</b>		-		Filename Filesize	
Attach	Document	Memo	1		<b>V</b>		-		EDPages	
AttachLvl	Document	Numeric	1		1				Title	
Attachmt	Document	Text	1		2				Subject	
	Description	N.L	4					×	Author	

1. From the main window in CloudNine<sup>™</sup> LAW, on the **Index** menu, click **Modify Fields**. The **Modify Fields** dialog box opens.

2. Select a field that has the **Type** column shown as **List**. Click the **Edit List** button. The **List Editor** dialog box opens.



3. Use the List Editor to work with list items from list items as described in the following table:

To complete this task:	Perform these steps in the List Editor
Add items to a list.	<ul> <li>Type a unique value into the Current Item text box and then click Add.</li> </ul>
	The new item appears in the list.
Delete a list item.	• Select a list item from the <b>List Items</b> pane and then click <b>Delete</b> .
	The selected item is removed from the current list.
Rename a list item.	<ul> <li>Select a list item from the List Items pane, type the new name in the Current Item text box, and then click Update.</li> </ul>
	This name of the current item is updated.

## To import or export list values

You can import or export existing list values for reuse. List items are imported and exported using list file. A list file is a text file with the .lst extension. After you setup list items on one workstation, use the List Editor to export list files, and then on other workstations, you can use the List Editor to import the list files. Sharing list files allows multiple users to use a common set of fields between cases.

1. From the main window in CloudNine<sup>™</sup> LAW, on the **Index** menu, click **Modify Fields**. The **Modify Fields** dialog box opens.

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	•	Field Order:	
_DocCat	Document	Numeric	1	2	2				DocID	
DupID	Document	Numeric	1	1	1				Custodian	
DupMethod	Document	TinyInt	1		<b>V</b>				EDSession EDSource	
FTIndex	Document	TinyInt	1		$\checkmark$				EDFolder	
GUID	Document	Text	1	<b>V</b>	<b>V</b>				ErrorMsg	
PS_ARCX	Document	TinyInt	1		~				PrevErrMsg	
PS_ATTX	Document	TinyInt	1		~				FileType	
PS DIGESTX	Document	TinyInt	1		$\checkmark$				FileDescription	
PS_EMBEDX	Document	TinyInt	1		1				FileAccuracy SuspectExt	
PS_MDX	Document	TinyInt	1		1				DocExt	
PS NATIVEX	Document	TinyInt	1		~				OrigExt	
PS OLEX	Document	TinyInt	1		~				SourceApp	
ApplicationName	Document	Text	1		~		~		Filename	
Attach	Document	Memo	1		1		~		Filesize EDPages	
AttachLvl	Document	Numeric	1		4				Title	
Attachmt	Document	Text	1		~				Subject	
	Denmark	N	4					×	Author	

- 2. Select a field that has the **Type** column shown as **List** and then click **Edit List**. The **List Editor** displays.
- 3. To import existing entries from a list file click **Import**. To export existing entries to a list file, click **Export**.

## To add list items while coding

You can add items to a list automatically when coding documents from the main form.

- 1. On the **Tools** menu, click **Options**, and then click the **Preferences** tab.
- 2. Select Add all new list field values to list on update and then click OK.

If a value is typed directly into a list field on the Index display, the value will be added to the list after you click Update.

## **Index Profiles**

Index profiles store a list of fields that are visible for a case and the order in which the fields appear. Index profiles allow you to reuse views of index fields across cases.

Note the following facts about index profiles:

- You can setup an index profile once and then can reuse it multiple times.
- Field profiles can be used to easily switch between sets of fields in the **Index** panel.
- Profiles are stored in a text file with the .ifp file extension.
- The **Default** profile is a user-level profile included by default in each CloudNine<sup>™</sup> LAW case. If you change the **Default** profile in a case, the changes will not persist to the **Default** in other existing or new cases.
- In electronic discovery-enabled cases, a number of popular EDD-related fields are displayed in the Index view automatically when the **Default** profile is selected.
- In non-EDD cases, no fields are displayed by default.

## To edit an index profile

1. In the main window, on the Index menu, click Modify Fields.

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	•	Field Order:	
_DocCat	Document	Numeric	1	2	2				DocID	1
_DupID	Document	Numeric	1	2	V				Custodian	
_DupMethod	Document	TinyInt	1		<b>V</b>				EDSession EDSource	
FTIndex	Document	TinyInt	1		<b>V</b>				EDFolder	
GUID	Document	Text	1	2	<b>V</b>				ErrorMsg	
_PS_ARCX	Document	TinyInt	1		$\checkmark$				PrevErrMsg	
PS ATTX	Document	TinyInt	1		1				FileType	
PS DIGESTX	Document	TinyInt	1		~				FileDescription	
PS EMBEDX	Document	TinyInt	1		~				FileAccuracy SuspectExt	- 1
PS MDX	Document	TinyInt	1		V				DocExt	
PS NATIVEX	Document	TinyInt	1						OrigExt	
PS OLEX	Document	TinvInt	1						SourceApp	
ApplicationName	Document	Text	1				~		Filename	
Attach	Document	Memo	1				~		Filesize	
AttachLvl	Document	Numeric	1						EDPages Title	
Attachmt	Document	Text	1						Subject	
	Deciment	Numeria	1					~	Author	

- 2. Configure fields as visible and sequence them as needed in the **Field Order** area.
- 3. Click **Save As** or click the dropdown arrow beside the **Field Profiles** button and then click **Save As**.
- 3. Select a storage level. Three storage levels are available when creating field profiles:
  - **User** Available to the current user in the current case.
  - **Shared** Available to any user in the LAW case in which the profile was created. If a profile is shared, LAW will automatically display "(Shared)" after the profile name.
  - **Global** Available to any user in any LAW case. If a profile is global, LAW will automatically display "(Global)" after the profile name.
- 5. Type a name for the profile. The name must be a valid file name, as the .ifp profile storage file will be named according to the value entered in this dialog.
- 6. Click **Accept** to save the changes.

The user and shared profiles are stored in the case folder structure (\$UserData), while global profiles are stored in <application path>\Shared. To change the default storage location for global profiles, on the **Tools** menu, click **Options**, and then click **Preferences**.

7. To configure a new storage path click **Browse** and then select a folder.

Any previously created global queries and profiles will need to be manually moved from the LAW50\Shared folder into this specified location to be detected as a global

query or profile by CloudNine<sup>™</sup> LAW. Changing this path will affect saved global queries, global index field profiles, and global grid profiles.

Versions 5.3.08 and below used a different storage scheme for index profiles. All profiles were stored in a single INI file. When 5.3.14 or later is installed and a case is opened, the profiles will be copied from this indexprof.ini file and updated to match the new storage schema. The previous **Default** profile will be named **Default\_Shared** to avoid conflict with the new **Default** profile in the current case.

## To create a new profile

- 1. In the main window, on the **Index** menu, click **Modify Fields**.
- 2. Click the arrow next to the **Field Profiles** button.

Profiles also can be applied or deleted from this dialog box.

## To apply an index profile

• On the **Index** menu, click **Modify Fields** then select a profile in the **Active Profile** dropdown on the bottom left.

Or

• On the main form **Index** panel select a profile from the **Profile** list.

## To modify or delete an existing profile

- 1. In the main window, on the Index menu click Modify Fields.
- 2. Do one of the following:
  - In the **Active Profile** drop-down, select a profile to modify or delete.
    - To modify a profile, edit fields and then click **Save**.
    - To delete a profile, click **Delete** and then click **Yes**.

Or

3. Click the arrow next to the **Field Profiles** button.

- 4. Click Manage Profiles.
- 5. Select a profile to delete from the Field Profiles list.
- 6. On the **Edit** menu click **Delete**.

# Notifications

In LAW you can have LAW automatically generate and send email notifications to specific email recipients when import, batch processing, and export jobs are completed. Notifications can be set up for individual cases or set up globally for all cases. Notifications are created and managed from the Notifications tab in the Options dialog box.

If there are errors sending an email notification, the error is written to the notification log located in the following directory: %CASEDIR%\\$Logs\notifications.log.

## To configure the SMTP settings

When setting up notifications, you can have LAW automatically detect the SMTP server, or you can manually configure the SMTP server information to send the notification emails from a specific SMTP server and email address in the SMTP Configuration section of the Notifications tab. By default, Automatically detect server is selected.

To have LAW automatically detect the SMTP server, make sure the Automatically detect server option is selected on the Notifications tab. When the Automatically detect server option is selected, the default email address for the notification email sender is LAW@noreply.com.

- ▲ Automatically detect server does not work with a generic Outlook dummy profile in use. No notifications will be sent unless the profile is configured to use your network's SMTP during creation.
- ▲ It is not recommended to use Automatically detect server and your personal Outlook email with emails imported into LAW as msgs and batch tiffing. This will result in your personal email address being displayed on the top of emails.

Options		
Imaging Indexing	Notifications Numbering	OCR Preferences
SMTP Configuration	detect server	
Host:		
User:	Pa	ssword:
Port: 0		Use TLS
<ul> <li>Notifications</li> </ul>		
Notifications		
Recipient	Event Type	Scope
	Event Type	Scope
	Event Type	Scope Edit Add New

#### To manually configure the SMTP server information

- 1. From the main window in LAW, on the **Tools** menu, click **Options**.
- 2. Click the **Notifications** tab.
- 3. In the SMTP Configuration section, select the Manual Configuration option.
- 4. In the **Host** field, type the SMTP mail server address. For example: smtp.gmail.com
- 5. In the **User** and **Password** fields enter appropriate credentials that should be used as the sender for the email notifications.
- 6. In the **Port** field, enter the port number for connecting to the SMTP server.
- 7. If TLS is required, select the "Use TLS" checkbox.
- You will need to configure the email used to allow apps to send emails through the specified email account. For gmail, for example, you may need to modify settings in your google Apps accounts (i.e. turn on "Less secure apps" from My Account). As this changes the security of that email account, you may want to configure a separate email account for this purpose alone.

## To create a notification

- 1. From the main window in LAW, on the **Tools** menu, click **Options**.
- 2. Click the **Notifications** tab.
- 3. Click the **Add New** button. Clicking the **Add New** button opens the **Add Notification** dialog box.

Add Notification	n	
Recipient(s):	1	
Event Type:	<please event="" select="" type=""></please>	•
Event Scope:	<please event="" scope="" select=""></please>	•
		<u>O</u> K <u>C</u> ancel

4. In the **Recipients** box, enter the email addresses where you want to send the email notification.

To enter multiple email addresses, place a semi-colon, ;, between each email address.

- 5. In the **Event Type** list, click one of the following:
  - **Batch Complete.** Sends an email notification whenever a batch process is completed or canceled, and when a distributed batch process is completed.
  - **Export Complete.** Sends an email notification whenever an export job is completed or canceled.
  - **Import Complete.** Sends an email notification whenever an Electronic Discovery import job is completed. (This is not enabled for Turbo Import enabled cases.)
- 6. In the **Event Scope** list, click one of the following:
  - All Cases. The notification applies to all LAW cases. Notification will be displayed in the Notifications list on the Notifications tab for all cases.
  - **Current Case.** The notification only applies to the current LAW case. Notification will only be displayed in the Notifications list on the Notifications tab for the case the notification was created in.

7. Click **OK**. Clicking **OK** saves the notification and adds the notification to the **Notifications** list on the **Notifications** tab.

## To edit a notification

- 1. In the **Options** dialog box, click the **Notifications** tab.
- 2. In the Notifications list, select the notification you want to edit.
- 3. Click the **Edit** button.
- 4. Clicking the Edit button opens the Edit Notification dialog box.

Edit Notification	
Recipient(s):	example@email.com
Event Type:	Export Complete
Event Scope:	All Cases

- 5. Edit the notification.
- 6. Click **OK** to save your changes.

## To delete a notification

- 1. In the **Options** dialog box, click the **Notifications** tab.
- 2. In the **Notifications** list, click the notification you want to delete.
- 3. Click the **Delete** button.

4. Click **Yes** when asked, *Would you like to proceed*?.

Clicking **Yes** deletes the notification.

## To test a notification

You can test a notification to make sure it is set up correctly.

- 1. In the **Options** dialog box, click the **Notifications** tab.
- 2. In the **Notifications** list, click the notification you want to test.
- 3. Click the **Test Notification** button.
- 4. LAW sends a test email to the email addresses entered in the Recipients box in the Add Notification and Edit Notification dialog boxes.

The email Subject field contains one of the following:

- For imports LAW Notification: [Import Complete] on [case name]
- For batch processes LAW Notification: [Batch Complete] on [case name]
- For exports LAW Notification: [Export Complete] on [case name]

The email body for all types of notifications is: --- THIS IS A TEST NOTIFICATION

If you receive an error message, in regards to "SMTP authentication failed after sending password.", then confirm that you configured the email used to allow apps to send emails through your email account. For example in <u>Microsoft</u>, in <u>Gmail</u>, and with <u>Yahoo</u>. As this changes the security of your email, you may want to configure an email account for this purpose alone.

#### Information provided in the notification email messages

Here are the contents of each notification email message:

#### Import Complete message:

Subject: LAW Notification: [Import Complete] on [case name]

Session Title: Name of the import session.

**Creator:** User name of the user that created the import.

**Import Count:** Total number of records imported into LAW.

**Excluded:** Total number of records excluded from the import.

Duplicates: Total number of duplicate records identified during the import.

Errors: Total number of errors encountered during the import.

Warnings: Total number of warnings generated during the import.

#### Batch Complete message (standalone batch process):

Subject: LAW Notification: [Batch Complete] on [case name]

Batch Type: Standalone

Batch Status: Complete or Cancelled

**Total Items:** Total number of items in the batch.

Error Count: Total number of errors encountered the during batch process.

**Active Processes:** Processes completed during the batch process. For example: TIFF Conversion, Endorse Image, OCR

**Elapsed time:** Total processing time for the batch process.

**Total pages:** Total number of pages processed during the batch process.

**Average speed:** Average number of pages processed per hour during the batch process.

Batch Complete message (distributed batch process):

Subject: LAW Notification: [Batch Complete] on [case name]

Batch Name: Name of the distributed batch process job.

Batch Type: Distributed

Batch Status: Complete

Total Items: Total number of items in the distributed batch.

**Error Count:** Total number of errors encountered during distributed batch process. Total includes all errors logged for the entire batch, not just errors logged by the current workstation.

**Active Processes:** Processes completed during the distributed batch process. For example: TIFF Conversion, Endorse Image, OCR

**Elapsed time:** Total processing time for the distributed batch process.

**Total pages:** Total number of pages processed during the distributed batch process.

**Average speed:** Average number of pages processed per hour during the distributed batch process.

#### Export Complete message:

Subject: LAW Notification: [Export Complete] on [case name]

Profile Name: Export profile name.

**Export Path:** The full path to the export directory.

Creator: User name of the user that created the export.

[export message] The process was completed with warnings.

Total Records: Total number of records exported.

Total Files: Total number of files exported.

**Total Size:** Total file size of all files exported.

Elapsed Time: Total processing time for the export.

Average Speed: The average total file size processed per hour during the export.

# Acquiring Documents

You can use LAW to acquire documents in any of several ways:

- Import using ED Loader. ED Loader is the utility you run to import electronic documents. ED Loader supports indexing during import and provides other advanced import features. For more information, see: <u>Importing Electronic Discovery</u>.
- Import using Turbo Import. Turbo Import is the utility you run to import electronic documents using multiple cores and stations for processing. For more information, see: Importing by Turbo Import
- Using a scanner. You can add document images to a LAW case by using a scanner. You can control scanner operation for many scanner models directly from within CloudNine<sup>™</sup> LAW. For more information, see: <u>Scanning Documents</u>.
- Importing cases from LAW and other litigation support applications. LAW allows you to import documents into the current case from other LAW cases and from load files created by other litigation support applications. For more information, see: <u>Importing</u> <u>Cases and Load Files</u>.
- Importing image stores. You can import existing images directly into a LAW case. For more information, see: Importing Raw Images.
- Importing replacement images. You can import images to replace current images. For more information, see: Importing Replacement Images.

## Importing Electronic Discovery

You use the Electronic Discovery Loader (ED Loader) utility to import electronic documents into a case setup for ED Loader.

#### ED Loader Settings Prior to importing

Before importing into LAW through ED Loader, it is necessary to configure your Outlook correctly.

#### Office 365 Desktop Installation

Office 365 functions similar to Office 2016 except that there is a cloud/virtual version and a desktop installed version. For functionality with LAW the desktop version needs to be installed. Please see Microsoft's website on how to confirm if you have the installed version of Office 365. <u>What Office 365 business product or license do I have?</u> Please contact Microsoft support for any questions in regards to their licensing.

Due to some changes that Microsoft did to Outlook 2016. PSTs on a mapped drive are experiencing errors using the drag and drop method into ED Loader. <u>https://support.microsoft.com/en-us/help/4051806/error-add-pst-outlook-2016</u>

As a workaround add the following ini setting to EDLoader.app.config.ini

[EMAIL\_SETTINGS] UseTempProfileForPst=1

If you have Office 365 32-bit desktop version installed then the Outlook configuration is the same as Outlook 2016. Office 365 64-bit desktop version is not supported.

#### Setting up a dummy Outlook profile

#### **Outlook 2016**

- 1. Close completely out of Law and Microsoft Outlook.
- 2. Go to Windows Control Panel > Mail (Microsoft Outlook 2016) (32-bit)
- 3. Select **Show Profiles**

Mail
General
The following profiles are set up on this computer:
Outlook
×
Add Remove Properties Copy
When starting Microsoft Outlook, use this profile:
O Prompt for a profile to be used
Always use this profile
Outlook 🗸
OK Cancel Apply

4. Select **Add**, type in an underscore for the profile name, then hit **OK**.

New Profile	×
Create New Profile	ОК
Profile Name:	Cancel
_	

# 5. Deselect **Set up Outlook Mobile on my phone, too**, then select **Connect to a different account**.

# Connect Outlook to Office 365

Powerful tools for managing email, calendar, contacts, and tasks.

Account:		
	Connect	
	Set up Outlook Mobile on my phone, too	$\backslash$
		Connect to a different account

## 6. Select Manual setup or additional server types, then Next.

Add Account	A DECEMBER OF			×
Auto Account Setu Manual setup of a	p an account or connect to other server type	5.		岺
C Email Account				
Your Name:				
	Example: Ellen Adams			
Email Address:				
	Example: ellen@contoso.com			
Manual setup or a	dditional server types			
		< Back Next >	Cancel H	dp )

 $\times$ 

Add Account	and a support		
Choose Your Account Type			1
Office 365			
Automatic setup for	Office 365 accounts		
Email Acidress:			
L	Example: ellen@contoso.com		
OP OP OF IMAP			
Advanced setup for F	OP or IMAP email accounts		
Exchange ActiveSync			
	ervices that use Exchange ActiveSyn	c	
Other			
Fax Mail Transport	ype that is listed below		
Fax Mail Hansport			

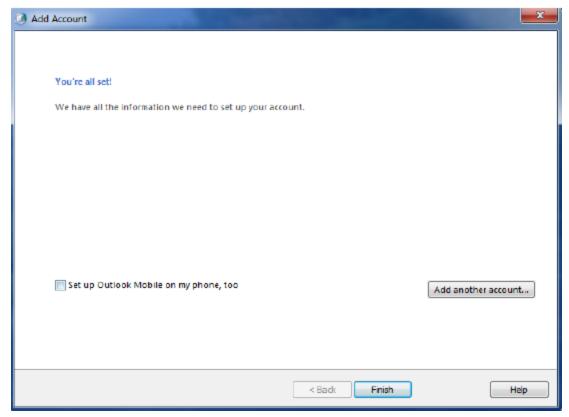
7. Select **Pop or IMAP**, then **Next**.

8. Fill in the highlighted values with an underscore except for Email Address which will be: \_@\_.com

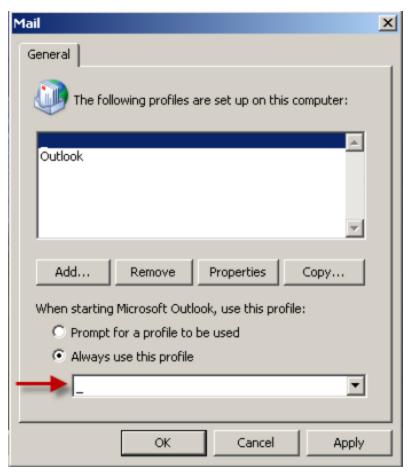
Add Account	
POP and IMAP Account Settings Enter the mail server settings for your account.	
User Information	Test Account Settings
Your Name:	We recommend that you test your account to ensure that the entries are correct.
Email Address: _@com	the entries are correct.
Server Information	Test Account Settings
Account Type: POP3	
Incoming mail server:	Automatically test account settings when Next is clicked
Outgoing mail server (SMTP):	Deliver new messages to:
Logon Information	New Outlook Data File
User Name:	Existing Outlook Data File
Password:	Browse
Remember password	
Require logon using Secure Password Authentication (SPA)	More Settings
	< Back Next > Cancel Help

9. Deselect Automatically test account settings when Next is clicked.

10. Deselect Remember password, then select Next.



11.Deselect Set up Outlook Mobile on my phone, too, then choose Finish.



12. The last step is to select Always use this profile, your new profile, and OK.

### Outlook 2013

- 1. Close completely out of Law and Microsoft Outlook.
- 2. Go to Windows Control Panel > Mail
- 3. Select Show Profiles

٥	Mail	
General		
The following profiles are set up on this computer:		
Outloo	k 🔨	
	~	
Add.	Remove Properties Copy	
When starting Microsoft Outlook, use this profile:		
Prompt for a profile to be used		
	ways use this profile	
C	Dutlook 🗸	
	OK Cancel Apply	

4. Select Add, type in an underscore for the profile name, then hit OK.

New Profile	×
Create New Profile	ОК
Profile Name:	Cancel
_	

5. Select Manual setup or additional server types, then Next.

۹	Add Account	x
Auto Account Setu Manual setup of a	p n account or connect to other server types.	×
O E-mail Account		
Your Name;	Example: Ellen Adams	
E-mail Address;	Example; ellen@contoso.com	
Password:		
Retype Password:		
	Type the password your Internet service provider has given you.	
Manual setup or a	dditional server types	
	< Back Next >	Cancel

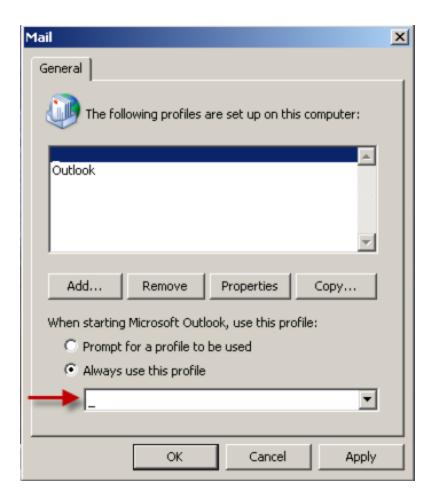
### 6. Select **Pop or IMAP**, then **Next**.

٥	Add Account	X
Choo	ise Service	×
	O Microsoft Exchange Server or compatible service Connect to an Exchange account to access email, calendars, contacts, tasks, and voice mail	
	<ul> <li>Outlook.com or Exchange ActiveSync compatible service</li> <li>Connect to a service such as Outlook.com to access email, calendars, contacts, and tasks</li> </ul>	
	POP or IMAP Connect to a POP or IMAP email account	
	< Back Next >	Cancel

۹	Add Acco	ount
POP and IMAP Account Se Enter the mail server sett	-	×.
	_ @com  POP3      POP3	Test Account Settings         We recommend that you test your account to ensure that the entries are correct.         Test Account Settings         Automatically test account settings when Next is clicked         Deliver new messages to:         New Outlook Data File         Existing Outlook Data File         Browse
		< Back Next > Cancel

7. Fill in the highlighted values with an underscore except for Email Address which will be:  $\_@\_.com$ 

- 8. Deselect Automatically test account settings when Next is clicked.
- 9. Deselect Remember password, then select Next.
- 10. Then choose Finish.
- 11. The last step is to select **Always use this profile**, your new profile, and **OK**.



#### Outlook 2010

- 1. Close completely out of Law and Microsoft Outlook.
- 2. Go to Windows Control Panel > Mail
- 3. Select Show Profiles

Mail Setur	o - Outlook	×
E-mail Acc	counts	
	Setup e-mail accounts and directories.	E-mail Accounts
Data Files	;	
( <b>2</b> )	Change settings for the files Outlook uses to store e-mail messages and documents.	Data Files
Profiles -		
	Setup multiple profiles of e-mail accounts and data files. Typically, you only need one.	Show Profiles
		<b></b>
		Close

4. Select Add

۹	Mail	x
General		
The following profiles are set up on this computer:		
Outloo	k	<u>.</u>
		~
Add.	Remove Properties Copy	
When starting Microsoft Outlook, use this profile: O Prompt for a profile to be used O Always use this profile		
Outlook 🗸		
	OK Cancel Apply	y

5. Type in an underscore for the profile name, then select  $\mathbf{OK}$ .



6. Select Manually configure server settings, then Next.

۹	Mail	x
General		
The following profiles are set up on this computer:		
Outlook		^
		~
Add	Remove Properties Copy	
When starting Microsoft Outlook, use this profile:		
<ul> <li>Always use this profile</li> </ul>		
Outlook 🗸		
	OK Cancel App	ly

7. Select Internet E-mail or POP3 as the e-mail service, then Next.

Add New Account	×
Choose Service	
internet E-mail Connect to POP or IMAP server to send and receive e-mail messages.     Microsoft Exchange or compatible service	
Connect and access e-mail messages, calendar, contacts, faxes and voice mail messages. <b>Te<u>x</u>t Messaging (SMS)</b> Connect to a mobile messaging service.	
Other Connect to a server type shown below. Lotus Notes Mail	
< <u>B</u> ack <u>N</u> ext >	Cancel

8. Put an underscore in all fields except E-mail Address and Password. Type "\_@\_.com" in E-mail Address and leave Password blank. De-select **Test Account Settings**, then **Next**.

Add New Account	×
Internet E-mail Settings Each of these settings are required t	o get your e-mail account working.
User Information   Your Name:   E-mail Address:   Image: Information   Server Information   Account Type:   POP3   Incoming mail server:   Image: Information   Outgoing mail server (SMTP):   Image: Information   User Name:   Image: Image	
Require logon using Secure Password /	Authentication (SPA) More Settings
	< Back Next > Cancel

Mail	x
General	
The following profiles are set up on this computer:	
Outlook	
Add Remove Properties Copy	
When starting Microsoft Outlook, use this profile:	
C Prompt for a profile to be used	
<ul> <li>Always use this profile</li> </ul>	
OK Cancel Apply	

9. Select **Finish**, then select the newly created dummy profile under **Always use this profile**.

10. Then select **OK**.

#### Outlook Version Limitations

Outlook Version	PST size limitations for processing
Outlook 2007	Maximum pst size of 20 GB
Outlook 2010	Maximum pst size of 50 GB
Outlook 2013	Maximum pst size of 50 GB
Outlook 2016	Maximum pst size of 50 GB

▲ The maximum pst size for Outlook 2010 and higher can be adjusted in the registry to exceed the above limits. This registry item should be performed on all machines involved in the ED Loader processing (distributed process). <u>Microsoft's Knowledge</u> Base

## 3GB Switch for 32-Bit Versions of Outlook

Instructions for enabling in Outlook 3GB of processing memory as opposed to the 2GB default. In order for this to be of benefit in your environment the workstation needs at least 4GB of RAM.

To enable the 3GB switch:

1. Right-click on the Command Prompt icon in the Accessories program group of the Start menu. Click Run as Administrator.

- 2. At the command prompt, enter:bcdedit /set IncreaseUserVa 3072
- 3. Restart the computer.

To disable the 3GB switch:

1. Right-click on the Command Prompt icon in the Accessories program group of the Start menu. Click Run as Administrator.

- 2. At the command prompt, enter:bcdedit /deletevalue IncreaseUserVa
- 3. Restart the computer.

#### Starting an Import Session

After opening an ED Loader enabled case, starting an import session involves the following tasks:

- Open ED Loader (LAW Electronic Discovery Loader)
- Set a default target folder
- Select a default custodian
- Create a session label
- Specify a DocID seed

The following sections for this topic describe how to complete these tasks.

🔍 LAW Electronic Discovery Loader			×
<u>File</u> <u>Edit</u> <u>View</u> <u>T</u> ools			
DeltaZ4ED			
Sources Settings			1
Default Target Folder:		Session Label:	
<case root=""></case>		Session [&SESSION_ID] on [&CASENA	AME]
Default Custodian:		DocID Seed: (max len. 45)	
<none></none>	~	00000011	
Source Queue			Add:
Source Name Custodian	Target Folder		Mail Store
			Outlook Fldr.
			Folder(s)
			File(s)
			File List
			Failed Items
			View Details
			Remove:
<		>	Remove Item
Reset All Reset Names Reset Cstdns. Reset F	olders	Show source paths	Clear All
Version: 7.4.49	< Bac	k Next > Start	Cancel

#### **Preparing to start an import session**

Before you start an ED Loader session, you can configure variables that control ED Loader operation and especially how specified type of sources are handled.

- 1. On the **File** menu, click **Import**, and then click **Electronic Discovery**. ED Loader opens.
- 2. On the **Sources** tab you can set any of the following session variables as needed:
  - Default target folder
  - Default custodian
  - Session label
- DocID seed

These options may be set either before or after selecting the sources to be loaded.

Default Target Folder and Default Custodian apply to all sources unless further configuration is performed at the source level. For more information see <u>Source</u> <u>Queue</u>.

#### Setting the default target folder

The location of electronic discovery documents to be imported is based on the default target folder setting.

Note the following facts when you set the default target folder:

- The value in the **Default Target Folder** is relative to the path of the case folder. For example, if the case is located in C:\Case1 and you type Example Case\_0001 into the Default Target Folder field, the actual path will resolve as: C: \Case1\Example\_Case0001.
- When you start ED Loader in a case, the default target folder is automatically populated with the name of the currently selected folder.
- If the root folder of the case is the currently selected folder, then the value of Default Target Folder is <Case Root>.
- If you enter a folder name that does not currently exist in the case, LAW will create it prior to import.

#### To customize a session label

**Session Label** uniquely identifies each ED Loader session for a case. Session labels can be useful to filter records by session or to review session logs. The default value is the start date and time of the session.

- 1. Start ED Loader.
- 2. Do one of the following:
  - Type directly in the **Session Label** field.

Or

• Click the button next to **Session Label**.

The **Session Label Editor** starts.

Session Label Editor			
Enter the label you would like assigned to your session. You can also use variables listed on the left to automate a portion of the session. Variables will have their values assigned when the session is created.			
Variables:	Session Label:		
[&CREATED] [&CUSTODIAN] [&DOCIDSEED] [&SOURCECOUNT] [&TARGETFOLDER] [&USER] [&VERSION] [&WORKSTATION]	Session Created On [&CREATED]; Custodian [&CUSTODIAN]		
Description: Assigned custodians in session. If there are more than one custodians assigned then they are delimited by a ; char.			
Reset Accept Cancel			

- 3. Edit the text in the **Session Label** field as needed.
  - Double-click any variable in the list to add it to the **Session Label** text box.
  - Click **Reset** to remove all text from **Session Label**.
- 3. Click Accept.

#### To designate a custodian

A custodian is the person designated as responsible for the safekeeping and availability of a document or source. After import, the custodian you select is assigned to the **Custodian** field for the document.

1. Start ED Loader. By default the **Sources** tab is open.

Default Target Folder:	Session Label:
Topics1\Topics1	Session Created On [&CREATED]; Custodian [&CUS
Default Custodian:	DocID Seed: (max len. 50)
<none> 💌</none>	00000151

- If the custodian name you want does not appear in the **Default Custodian** field, do one of the following:
  - Delete **<None>** and then type the name there.

Or

• Select the name you want from the list in the **Default Custodian** field.

Or

• Click the button next to **Default Custodian** list, and then add, update, or import custodian names using the Custodian Manager.

stodian Manager		
Custodians (4)	Curren <u>t</u>	Import
Cust1 Cust2	Cust4	Export
Cust2 Cust3 Cust4	Add	
	Update	)
	Delete	]
	Clea <u>r</u> All	
Description		
This is a description for Cust4.		
		<u>O</u> K Cancel

#### More information about importing custodian lists

- A list of custodians may be imported or exported to a list file.
- A file list is a text file with the .lst extension.
- A list files contains just the custodian names without quotes separated by hard returns.

#### To set a seed value for DocID

Note the following about choosing a seed value to use for the document identification (DocID) field:

- The DocID is a unique identifier assigned to each document.
- ED Loader uses the **DocID** seed as the starting value for each document you import.
- ED Loader increments the specified seed value for each record.
- The seed value can be a mix of numbers and letters.
- The DocID field may contain up to 50 characters.
- The default DocID seed for material imported using the distributed ED loader follows this format: SessionNumber.Document.Item, for example: 10000.000001.000023.

• To ensure the DocID is unique to each record when loading from multiple workstations, devise a file numbering scheme that uniquely identifies the workstation used to process documents, for example: ScannerPC1\_000001, ScannerPC2\_000001, etc.

#### Starting ED Loader

- 1. On the **File** menu, click **Import**, and then click **Electronic Discovery**. The LAW Electronic Discovery Loader utility opens.
- 2. Add sources as needed. For more information on adding sources see <u>Specifying</u> <u>Sources</u>.
- 3. Configure the import session as needed. For more information on configuring an import session see <u>Configuring Import Settings</u>.
- 4. Click Start.
- 5. In the **Confirm Settings** dialog box, review the import settings.

General		
Enable distributed processing	FALSE	
Override system time zone during processing	FALSE	
Time Zone	(GMT-05:00) Eastern Time (US & Canada)	
Output		
Scheme	Relative (Output path is relative to selection) (Applicable to EDoc selections only)	
Category As Top Level Folder	FALSE	
Source Name As Top Level Folder	TRUE	
Ensure Root Output Folder Is Unique	TRUE	
DodD Seed	00000011	
Deduplication		
Enabled	FALSE	
Email metadata hash fields	Attachments (filename list), BCC, Body (plain-text), CC, From, IntMsgld, Subject, To	
Enable deduplication of non-email PST items	TRUE	
NIST (NSRL) Filter		
Enabled	FALSE	
E-Mail		
Sorting	From , Direction: Descending	
Output Format (Outlook)	HTML	
Convert Dates To GMT	FALSE	
Preserve X.400 Addresses	TRUE	
Incorporate Attachment Content in E-mail Hash	FALSE	
Extract inline images (Lotus)	TRUE	
Archives		

6. Click **OK**.

#### **Specifying Sources**

Specifying sources involves not only the choice of source documents to add to the import operation, but the final quality checks, such as reviewing the queue of items to import and generating a file type report prior to import. A source is a folder or files selected for import by means of the Electronic Discovery (ED) Loader. You can add sources by using the **Sources** tab on the **LAW Electronic Discovery Loader** window or by dragging and dropping.

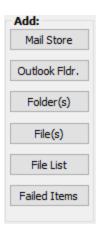
ED Loader imports Files using Windows API unless a file list is utilized. The exception to this is the files within an archive as the files within an archive cannot be sorted or organized and are extracted in using the archive's organization.

#### **To add sources to ED Loader**

- 1. On the LAW Electronic Discovery Loader window go to the Sources tab.
- 2. Select one or more sources to import. For more information see the Source Types section of this topic.
- 3. Go to the **Settings** tab.
- 4. Configure selection options for folders and archives as needed:
  - Automatically set E-Doc folder sources to Recurse when I add them via drag and drop. Ensures that the subfolders of the selected folders are processed.
  - Scan folder selections for supported mail stores when added to the queue. Enables scanning of all folder selections for Outlook and Lotus Notes mail stores. If found, the files are processed as mail stores rather than e-docs.
  - Scan supported archives. Enables scanning of archives (i.e., zip or rar) for mail stores.
  - Add selected folder to queue when mail store scan is active. Adds folders containing mail stores to the queue in addition to any mail stores found. For example, if a folder is selected that contains 5 Excel files and 1 Outlook PST file, enabling this option will result in two sources being added to the queue: one file set consisting of 5 Excel files and 1 Outlook PST file.
- 5. Do one of the following to add items to the queue:
  - Use Windows Explorer to drag and drop items from the file system.
  - Click one of the source type buttons and navigate to a source. For more information on source types, see the following section in this topic.

#### Overview of source types

Options are available for selecting any of the five different types of sources.



These options are described in the following table:

# Option Use it to Mail Store Add mail store sources.

LAW currently supports Outlook (\*.pst and \*.ost) mail stores as well as Lotus Notes (\*.nsf) mail stores.

• When the **Select Mail Store** dialog appears, browse to the mail store(s) and then click **<Open>**.

The store(s) will be added to the Source Queue.

Outlook	Select Outlook folders for import.
Fldr.	<ol> <li>In the Select Outlook Folder(s) dialog box, select the folders you want to process.</li> </ol>
	<ol> <li>Select Recurse Subfolders if you want the subfolders of selected folders also to be processed.</li> </ol>
	The items in parentheses beside each folder represent the number of items in the folder (first number) and the number of unread messages (second number).
	3. Click Accept.
	The selected folders are added to the queue.
	The mail store(s) containing the folders to be processed must be opened in Outlook prior to starting this option.

#### Folder(s) Select one or more folders to import.

#### Option Use it to

- In the Select Folder(s) dialog box select the folders you want to process.
- 2. **Select Recurse Subfolders** if you want the subfolders of selected folders also to be processed.
- 3. Select **Scan selection(s) for mailstores** to search any selected folders for supported mail stores. If any stores are found, they will be listed separately in the queue and processed as mail stores.

Disable this option if you want the mail stores contained in the selected folders to be either processed as e-docs or excluded completely, depending on the state of the **Exclude mailstores from e-doc processing** option located on the **Settings** tab. See <u>Exclusions</u> for more information.

## File(s) Select one or more files. Use this option to open any type of electronic document, other than Outlook PST files, including MBOX files.

• In the **Select File(s)** dialog box select one or more files from a folder to process.

You can use the CTRL and SHIFT keys to select multiple files and CTRL+A may be used to select all files in a folder.

#### File List Select a file list to import.

- 1. In the **Select File List** dialog box browse to the file containing the file paths.
- 2. Click **Open** to add the source to the queue.

A file list is a text file with paths to files for import. The file extension does not matter. The file must contain full paths to the files, separated by hard returns, without quotes. If the file contains relative paths, the file list must be placed in a location that will allow the ED Loader to complete the path. For example, if the file list contains a listing of EDOCS\0001.xls, then the file list should be placed one level above the EDOCS folder.

# FailedSelect Failed Items. Use this option to repopulate the ED Loader SourceItemsQueue with documents that failed to fully import through previous ED<br/>Loader Sessions.See Reprocessing Failed Itemsfor more information on how to configure<br/>and utilize this feature.

To remove sources

Sources can be removed from the queue by using a **Remove** option.

Remove:		
Remove Item		
Clear All		

- **Remove Item** Removes one source at a time from the queue. To use, click a source in the queue to be removed and then click **Remove Item**.
- Clear All Removes all sources from the queue.

#### To view source details

- On the Sources tab click View Details.
   Or
- On the View menu click Source Details.

If the source consists of a file set or file list, all file names will be displayed.

#### Long paths

If the path to a source exceeds 260 characters, which is the Windows limit:

- ED Loader copies the files to a temporary location to allow successful processing of the files.
- A warning will be logged in the Session Viewer logs.

The Source Queue lists the sources ready for processing that have been added during the current session. You should review the Source Queue as a last check before you initiate an import operation. Source Queue is located on the **Sources** tab in the Electronic Discovery Loader.

The Source Queue may also be used to configure source-level information, such as the custodian assigned to a source.

Source Queue			
Source Name	Custodian	Target Folder	
🗆 🥬 E-Doc Folders			
D	<none></none>	<case root=""></case>	
E	<none></none>	<case root=""></case>	
🗆 🕒 Outlook Mail Stores			
jondoe	<none></none>	<case root=""></case>	
E Selected File Set			
TempA	<none></none>	<case root=""></case>	
<			>
Reset All Reset Nar	nes Reset Cstdns.	Reset Folders	Show source paths

#### To configure source-level options

After sources have been added to the queue, configure the following source-level options as needed:

- Source Name When the option to Use source name as top level folder is enabled in the **Output** settings (see <u>Output</u> section), the name is used for the top-level folder, and documents are imported below it.
  - The source name may be edited by simply typing the desired name directly into the text box. When a source name is changed, the new name will appear in green.
  - Source names may appear in green by default if the option to "Ensure source names are unique when they are added to the queue" is enabled and duplicate source names are detected. The duplicate source name will be appended with a '-001'.
- **Custodian** The custodian may be edited at a source level by either choosing a different value from the drop-down list in the **Custodian** field or by typing the a new value in the field.
  - When a custodian is changed at a source level, the custodian name becomes green.
  - If the custodian should be the same for all sources, assign a custodian in the **Default custodian** field. This field is located above the **Source Queue**.
- **Target Folder** The selected sources will be imported into the designated LAW folder.
  - If all sources should be imported below the same target folder, select the folder in the 'Default target folder' text box located above the Source Queue in the session configuration settings.

• To change the target folder for a particular source, click within the Target Folder text box for the source and either type a new folder or folder path or click the box within the field to launch the Select Target Folder dialog. This dialog may be used to choose an existing folder for the target location or to create a new folder.

#### To reset source-level settings

- Open the **Source Queue** and then click one of the following:
- **Reset All** Resets the Custodian, Source Name, and Target Folder fields back to the defaults.
- Reset Names Resets the Source Name field to the default.
- Reset Cstdns. Resets the Custodian field to the default.
- **Reset Folders** Resets the **Target Folder** field to the default.

These options are also available from the **Edit** menu.

#### To view paths to sources

• On the **View** menu click **Show source paths** or click the **Show source paths** button next to the **Target Folder** column.

Note the following:

- For **File Sets**, the total file count is displayed after the path in the **Source Path** column.
- For File Lists, the path (including filename) of the file list will be displayed.
- For folders, if **Recurse Subfolders** is selected to include subfolders, a plus sign + is displayed at the end of the source path.

The File Type Summary in the ED Loader can generate a summary of the selected source files prior to importing. The summary will process and log e-docs, archive contents, and e-mail attachments. It does not expand loose e-mails or compound documents.

The summary will include items such as total file counts, counts based on file type, total size, and size of files per file type. This feature may also be used to generate a report of this information.

#### To create a summary

1. Add items to the ED Loader Source Queue. See <u>Adding and Removing Sources</u> for more information.

- 2. On the **Tools** menu click **Summarize Queue**. The **File Type Summary Progress** dialog appears.
- Currently, if a Microsoft Outlook OST file in present in the source queue, the Summarize Queue function does not run and a Store Mgmt Error is generated indicating the .ost file is not a personal folders file.

Until this issue is fixed, if any OST files are present in the source queue, the OST files need to be removed from the source queue before creating a summary.

File Type Summary  $\times$ File View Tools 60 P A -1 Open Save As Files **Identify Files** Reports All 🔎 Extension E-Docs E-mail Att. Identified File Count Size (KB) Extension Description Warnings 7z 1 7Z File dat 3 DAT File 977 0 doc 3 Microsoft Word 97 - 2003 Document 106 0 2 JPG File 314 0 ipa 1 Outlook Item 75 0 msa pdf 6 Adobe Acrobat Document 2667 0 pst 1 Outlook Data File 128233 0 1 RAR File rar 33 0 1 Microsoft Excel 97-2003 Worksheet xls 23 0 zip 1 Compressed (zipped) Folder 0 1 Viewing All Files, 20 Files Total: 129.33 MB

The **File Type Summary** dialog box displays the results.

You can view report details using the tabs in the File Type Summary:

- All Displays a listing of files found in the queue, organized by file extension. Edocs, archives, archive contents, loose e-mail messages, and e-mail attachments from mail stores will be included in the summary. Loose e-mail and compound documents are not expanded in the summary, so the attachments/embedded files from these types of files will not be included. E-mail messages from mail stores are also not included in the summary, but the number of e-mails can be viewed using the reporting feature (explained below).
- **E-Docs** Displays a listing of e-docs only. This tab will include loose e-docs, archives (i.e. zip files), and archive contents. Compound documents are not expanded so files embedded within the parent documents will not be included in the summary or reports.

- E-mail Att. Displays a listing of e-mail attachments found in mail stores. Loose email items are not expanded so their attachments will not appear in the summary or reports.
- **Identified** This tab will only be populated once the optional identification process has been executed, allowing users to view the true file types of the items contained in the queue. Note: This process is only available for items listed in the E-Docs tab.

#### To view file groups

- 1. Do one of the following:
  - On the **View** menu click **Files**.

Or

• Click the **Files** button.

The view shows each file in the group, the total size of the group, each individual file size, and any warnings that may have occurred during the summary or file identification process.

- 2. Navigate among file groups or open files as needed.
  - Click **Prev Set** and **Next Set** to navigate among groups.
  - For electronic documents, to open the file, click **Open**.

#### To identify file types

You can use the file identification process to validate the files included in the summary. The file engine will determine the true file type based on the header of each file.

• On the Tools menu click Identify Files.

Or

• Click the **Identify Files** button.

The **Identified** tab will display the results of this process and is linked to the file type manager database, which allows users to set the Include/Exclude flags directly from this view. File identification automatically takes place when sources are loaded into LAW via ED Loader, so running this process prior to loading provides a preview of the file types as they will be displayed in CloudNine<sup>™</sup> LAW.

#### Working with summaries

#### To save a summary

• On the File menu click Save As.

Or

• Click the **Save As** button.

Saved summary databases will be saved as .EDSD files in the location selected by the user.

#### To reload a summary

- 1. Start ED Loader.
- 2. On the File menu click Open Summary.
- 3. Browse to the saved .EDSD file.

The File Type Summary dialog box appears displaying the results of the saved summary.

#### To add the sources to the ED Loader Source Queue

• On the **Tools** menu click **Enqueue** from the **File Type Summary** dialog.

The sources will be loaded into the Source Queue and are ready for import into CloudNine  $^{\rm TM}$  LAW.

#### To create a summary report

- 1. Create a summary.
- 2. In the **File Type Summary** dialog box click **Tools** and then click **Reports**. The **View Report** dialog appears.

🗟 View Report	_		×
Select a report to view:			
Summarized Files by Native Extension			
Report Description			
Displays a summary of total e-docs, e-mails, and e displays a count and total file size of the queue gro			sion.
Apply logo to reports (upper right)			
<no image="" logo="" selected=""></no>			
	View Report	Cano	cel

- 3. To add a logo to the report select **Apply logo to report** and then browse to the logo image file.
- 4. Click View Report.

After you create the report you can print or save it.

#### Configuring Import Settings

ED Loader provides general configuration options as well as options that are specific to the type of source you are importing.

LAW supports the extraction from these kinds of archive files:

- CAB
- RAR
- JAR
- GZIP
- TAR
- Z

- ZIP
- ZIPX
- 7Z

☑ LZH files will be imported, but no files are extracted upon import.

#### To configure archive import

- 1. On the File menu click **Import** and then click **Electronic Discovery**.
- 2. Click the **Settings** tab and then click **Archives**. The **Archives** options display.

LAW Electronic Discover	ry Loader	×
DeltaZ4ED		
Sources Settings		
Categories Archives Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Archives  C Enable Archive Extraction  Treat archive as attachment containers (create records for archive and attach archive contents)  Include embedded archive (create records for nested or attached archives)  Include archive source files Use nested filenames for items extracted from archive	
Lock Settings Apply Settings Set As Default		
Version: 7.4.49	< Back Next > Start Cance	

- 3. Configure archive import as needed using the following options:
  - **Enable Archive Extraction** When selected, LAW will extract contents of the supported archive file types (see above list).
  - **Treat archive as attachment containers** When selected, if importing an archive file, ED Loader creates a record for the archive. If the archive contains loose message files or mail stores then the ThreadId field is not populated for the mail

items. If left unselected, the ThreadID field for loose message files or mail stores found in archives is populated.

- **Include embedded archive** This option creates records for any nested or attached archives found.
- **Include archive source files** This option allows users to choose whether or not to copy the native archive file into the typical native file structure in the case. Users may choose not to copy the file to save space and the file is often not needed once the contents are extracted.
- Use nested filename for items extracted from archive The archive filename will precede the filename of each extracted item in the **Filename** field, as follows: archive.zip?filename.doc

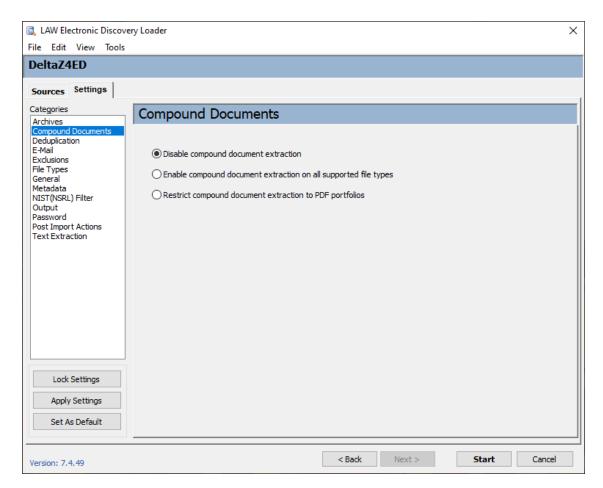
Compound documents are composed of a container document and embedded documents. For example, a Word document may contain an embedded spreadsheet. The embedded spreadsheet is considered to be embedded one level down from the container document. LAW supports up to 99 levels of embedded compound documents. So if the embedded spreadsheet includes an embedded PowerPoint file (second level down) that further includes an embedded PDF (third level down), LAW can extract all four files.

#### To enable extraction of compound documents

1. On the File menu, click Import, and then click Electronic Discovery.

Clicking **Electronic Discovery** opens the **Sources** tab in the **LAW Electronic Discovery Loader** dialog box.

2. Click the **Settings** tab and then click **Compound Documents**. The **Compound Documents** options display.



3. Click one of the following options:

#### • Disable compound document extraction

Disables the compound document extraction feature during the import.

#### • Enable compound document extraction on all supported file types

Any file containing an embedded file is imported as a parent document, and any embedded file within the parent file is imported as an attachment to the parent file.

#### • Restrict compound document extraction to PDF portfolios

Only PDF portfolios are imported as compound documents. When this option is selected each file in a PDF portfolio is imported as a top-level file instead of the PDF portfolio being imported as the parent file with all of the files within the PDF portfolio being imported only as attachments to the parent PDF portfolio.

If an embedded file cannot be opened, a warning will be generated and logged in the Session Viewer and ErrorMsg field.

☑ By default, LAW does not retain the PDF portfolio container. However, you can extract a PDF portfolio container file by going to the EDLoader.case.config.ini file and changing the OLE\_IncludePDFPortfolioContainer property value to 1. Then run ED Loader with either the **Enable compound document extraction on all supported file types** or the **Restrict compound document extraction to PDF portfolios** option selected.

#### Supported embedded file types

The following file types are supported for extraction from compound documents:

- Microsoft Word/RTF
- Microsoft Excel
- Microsoft PowerPoint
- Adobe Acrobat PDF
- SnapShot
- Microsoft Visio
- Microsoft Outlook.FileAttach (Word-authored e-mail with inline attachments, generally stored in RTF)
- Microsoft Project
- Package\*

\*A Package is a general type of embed; it can be a text file or a zip file, for example. Any of the above types may also be embedded as a package type depending on the software installed when a user embeds the file. For example, if a user were to embed an Excel spreadsheet into a Word document, and Excel is not installed, the spreadsheet will be embedded as Package.

#### Supported containers file types and embedded files

The following table lists common embedded file types that LAW supports for extraction:

△ Office 95 and earlier versions of Office are not supported with CloudNine<sup>™</sup> LAW.

D	escription	Detection	Extractio n
No	on-Microsoft Office Formats		
	Adobe Acrobat (pdf)	Y	Y
	Rich text format (rtf) *Converted to Word format for extraction. Original file is preserved.	Y	Y
	<b>Office 2007</b> and above see System Requirements for full listings. (with LAW versions 6.8+)		

Description	Detectio	n Extractio n
Excel Spreadsheet (OpenXml)	Y	Y
MS Office Data File (OpenXml)	Y	Y
PowerPoint Presentation (OpenXml)	Y*	Y*
*Compound documents not fully suppor in this format	ted	
Word (OpenXml)	Y	Y
Office 2013, Office 2010, Office 2007 (with LAW versions 6.7 and 6.6)		
Excel Spreadsheet (OpenXml)	Y	Y
MS Office Data File (OpenXml)	Y	Y
PowerPoint Presentation (OpenXml)	Y	Y
Word (OpenXml)	Y	Y
Office 2003		
Word	Y	Y
Word (xml)	Y	Ν
Excel	Y	Y
Excel (xml) *Compound documents not supported in this format	*N	*N
OneNote	Ν	Ν
PowerPoint	Y	Y
Project	Y	Y
Project (xml) *Compound documents no supported in this format	ot *N	*N
Publisher	**Y	Y
Visio	N	Ν
Visio (xml) *Currently not recognized by engine	/ file *Y	Ν
Office 2002/XP, Office 2000		
Word	Y	Y
Excel	Y	Y

D	escription	Detection	Extractio n
	PowerPoint	**Y	Ν
	Publisher	Y	Υ
	Project	Y	Y
	Visio	Ν	Ν
Office 97			
	Word	Y	Y
	Excel	Y	Y
	PowerPoint	Y	Y
	Project	Y	Y

\*\*Detection of embeds in these types is limited to the types of files supported for extraction (see above list).

Deduplication is the process of identifying duplicate files during the discovery process and removing them from further processing and analysis. Deduplication is a necessary step in managing the volume of data that must be analyzed.

A duplicate file is an exact copy of another file. Deduplication is necessary in many situations involving electronic documents because multiple identical documents are a typical feature of large record sets. For example, in electronic discovery sets containing e-mail archives for an organization, it is not uncommon for multiple e-mail accounts to contain the exact same widely distributed e-mail or file attachment.

CloudNine<sup>™</sup> LAW identifies duplicate files by comparing hashes of files. A hash is a numerical representation of a file whose value is based on the file contents or other attributes. In essence, the file is subjected to an encryption process that yields a unique value. An exact copy of a file will yield the same hash value. In the case of electronic documents, the file is hashed. For e-mail, metadata fields are hashed. You can set the encryption key in the deduplication settings.

The scope of the project will determine whether or not deduplication will be performed and which methods will be used.

In addition to deduplicating prior to the import process, LAW also allows you to deduplicate at these other times in a pre-discovery workflow:

- After the import against other records in the case by using the <u>Deduplication Utility</u>.
- After the import against other records in the case and other LAW cases by using <u>Inter-Case Deduplication</u>.

#### **<u>To configure deduplication</u>**

- 1. On the File menu click Import and then click Electronic Discovery.
- 2. Click the **Settings** tab and then click **Deduplication**. The **Deduplication** options display.

🕵 LAW Electronic Discovery Loader 🛛 🗙				
File Edit View	Tools	_		
DeltaZ4ED				
Sources Setting	gs			
Categories Deduplication				
Archives Compound Docume Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Action: Text Extraction	Image: Sents       Enable Duplicate Detection         Working digest:       MD5 (128-bit output digest)         Test for duplicate against (Scope):       Test for duplicate against (Scope):         Case Level (Globally)       If record is considered a duplicate then (Action):			
	Include (Log record)			
Lock Settings				
Apply Setting	s			
Set As Defaul	t			
Version: 7.4.49	< Back Next > Start Cancel			

- 3. Choose from among the following options:
  - Enable Duplicate Detection. Enables duplicate checking for the current session.
  - **Working digest.** The working digest is the method of hashing that will be conducted to determine duplicates. A hash value can be thought of as the DNA of a file. The hash values are obtained through metadata fields (e-mail) or by hashing the entire file (e-docs). LAW uses two types of hashing methods:

- MD5: 128-bit output
- SHA-1: 160-bit output
- **Test for duplicate against (Scope).** This option identifies the scope for deduplication. During the import process, deduplication can be performed at one of two levels:
  - **Case Level (Globally).** Deduplicates documents against the entire incoming collection and against existing records in the LAW case.
  - **Custodian Level.** Deduplicates documents against records with identical custodian values.
- **If record is considered a duplicate then (Action).** This setting determines the action to take once a duplicate is located. Three options are available:
  - **Include.** Creates a record for the duplicate in the database and copies the native file into the case folder.
  - **Partially exclude.** Creates a record in the database but does not copy the native file.
  - **Exclude.** Does not create a record, no text is extracted, and the native file is not copied to the case folder.
- **Include attachment hashes in e-mail metadata hash.** When enabled, the ED Loader will include the hashes of attached files in the parent e-mail's metadata hash. When disabled, the Attach field is incorporated in with the metadata hash which only contains the file names of attached files.
- $\triangle$  Note the following warnings prior to running a deduplication session:
  - While enabling the **Include attachment hashes in e-mail metadata hash** setting is recommended, it is not advisable to change this setting during the course of a case as it will alter the e-mail hashing schema, as noted in the interface. The desired state of this setting should be determined prior to the first import into new cases and should not be changed. This setting was not available in versions prior to 5.5.07.
  - If the current case has already been deduplicated via the Inter-Case Deduplication utility, a warning will appear (see below) when starting the ED Loader import if deduplication is enabled.
  - Use of the ED Loader deduplication on imported records after the case has already been deduplicated against other cases using the Inter-Case Deduplication utility is not recommended. Doing so will present a mixture of internal and external duplicates and could cause problems when purging, filtering, or reviewing duplicate records.
  - Proceeding with the ED Loader deduplication after the case has been deduplicated with the Inter-Case Deduplication utility will result in the external deduplication database being placed in Rebuild/Flush mode. At this point, the current case should be removed from the external database. Also, before running the internal deduplication, it is recommended that the Deduplication Status Reset command is executed to clear the values assigned by the Inter-

Case Deduplication utility to prevent the mixture of internal and external duplicates.

• Enable hashing of non-email Outlook items. Determines whether hash values are generated for non-email items in an Outlook PST file during the ED Loader import.

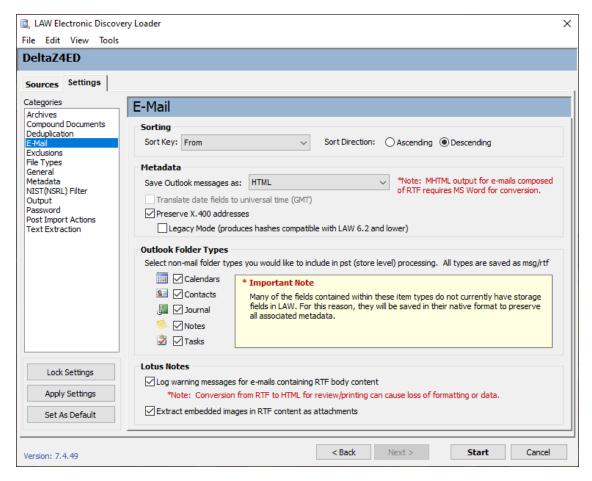
Non-email PST items include Microsoft Outlook calendar items, contacts, journal entries, notes, and tasks. When the check box is selected, deduplication is performed on the non-email items in a PST file.

By default, the check box is selected for cases created in LAW version 6.9.x or later. For cases created in LAW version 6.8.x or earlier, the check box is not selected by default.

The E-Mail settings identify how e-mails are sorted when loaded into CloudNine<sup>™</sup> LAW, the format in which they are saved, and the format of the date field values.

#### To access and configure e-mail import

- 1. On the **File** menu, select **Import** and then click **Electronic Discovery**.
- 2. Click the **Settings** tab and then click **E-Mail**. The **E-Mail** options display.



- 3. Choose from among the following options:
- **Sort Key** When loading e-mails from mail stores, it is important to identify how the files are imported into LAW and later produced. Four fields can be used to sort the e-mails during extraction: From, Received, Sent On, and Subject. For example, if Received is chosen, e-mails are imported by the date the e-mail was received. Note, these settings do not apply to MBOX messages.
- Microsoft Outlook \*.ost files can only be sorted by the From and Subject fields.
- ✓ If you are importing password-protected PST files, do not select SentOn in the Sort Key drop-down list box. Password-protected PST files cannot be sorted by SentOn during import.
- **Sort Direction** The direction of the sort may be **Ascending** (oldest to newest) or **Descending** (newest to oldest).
- Save Outlook messages as Select the output format of Outlook messages as they are imported with the ED Loader. The four options are:

- **HTML** Messages are saved to HTML files with the exception of messages containing embedded OLE items that cannot be rendered in HTML, such as an Excel worksheet. These embedded images and non-mail items such as calendars, contacts, and tasks, are saved as native Outlook files (\*.msg). Embedded images in HTML messages are saved in the same folder as the converted message. These images are not LAW records. Instead they are linked to the HTML file for proper rendering. They are listed in a dependency file (\*.dep) with the same root name as the native file. During Export, linked images are exported along with the native file so the HTML file can be properly rendered with associated images.
- HTML/MHTML (based on format) The format of the output file is determined based on the format of the e-mail message. Messages formatted as RTF, non-mail items, or HTML messages, including HTML with linked images, are saved as MHTML. All other messages are saved as HTML.
- HTML/RTF (based on format) The format of the output file is determined based on the format of the e-mail message. Messages formatted as RTF and non-mail items are saved as RTF. Text or HTML messages are saved as HTML. RTF messages are saved directly from Outlook, so the GMT date option is not applied to the display of the converted file.
- If the use of ED Loader on a 64-bit machine with Outlook 2010 is not yet supported.
- ▲ Messages saved as RTF will not contain the BCC information in the RTF output. This is a function of Outlook and how it renders messages to RTF. The BCC field, if present, will however still be captured in the database and in the extracted text.
- Subtle formatting differences may exist between HTML and RTF messages. However, this is the preferred setting if native rendering (MSG) is not required due to the potential of lost images or embedded objects when saving an RTF-formatted message as HTML.
  - **MSG** Messages are saved as native Outlook files (\*.msg) with the exception of e-mails that contain extremely large recipient lists (typically over 5,000). These messages can cause Outlook and the ED Loader to hang. Messages that cannot be saved as MSG files are saved as HTML files.
  - **MHTML** All items are saved as MHTML files (\*.mht). MHTML files are web archives that allow the embedding of images directly in an HTML file. This eliminates the need for any linked images or dependent files. Similar to the HTML/RTF setting, e-mails are converted to HTML or RTF based on their original format, and then converted to MHTML files.
- RTF messages and items use Microsoft Word to convert RTF to MHTML. If Word is not installed, any RTF output remains as RTF during the import. Due to the secondary conversion from RTF to MHTML using Word, processing speed is significantly slower when using this setting. Print speeds are also significantly slower with MHTML files. Use this setting only if it is absolutely necessary.
- Translate date fields to universal time (GMT) The Translate date fields to universal time check box is only enabled for cases created before LAW version

5.8.14. When the Translate date fields to universal time check box is selected, the times on incoming e-mail messages are converted to GMT (Greenwich Mean Time) during the ED Loader import.

- **Preserve X.400 addresses** When enabled, ED Loader maintains the X.400 e-mail address if an SMTP address cannot be found for a sender or recipient. The e-mail address is not converted to the SMTP address. This option is enabled by default. Disabling this setting, if a valid SMTP address is not present, the resulting autogenerated SMTP addresses may not be accurate.
- ✓ If the internet headers contain an SMTP address, the SMTP address will be used, even if the Preserve X.400 addresses check box is selected. SMTP addresses in internet headers always get precedence over X.400 addresses.
- Legacy Mode (produces hashes compatible with LAW 6.2 and lower) When enabled, this setting disables the extraction of SMTP sender addresses from Internet headers when they are not available in the MAPI properties for Outlook messages so that e-mails are hashed consistently with previous versions of LAW (version 6.2 or earlier).
- ✓ The Legacy Mode setting should not be used for new cases created and processed with version 6.3 or later.
- **Outlook Folder Types** Allows the loading of non-mail folder types such as calendar items and contacts when processing Outlook folders or mail stores.
- Lotus Notes options:

**Log warning messages for e-mails containing RTF body content** - This option logs a warning message when rich text format (RTF) is found in the e-mail body. If the e-mail body contains RTF, you can lose formatting or data when you convert the RTF to HTML.

**Extract embedded images in RTF content as attachments** - Use this option to extract images embedded in the *body*, or RTF of e-mail items. Images appear as attachments to the e-mail item. The state of this option is recorded in the case INI file. You can check details of this option in the Summary tab of the Summary Viewer.

In ED Loader you can set a time zone that applies to imported mail items. For more information see <u>ED Loader General Settings</u>.

Exclusions settings are conditional settings that can be used to prevent certain types of records from being loaded to CloudNine<sup>™</sup> LAW.

### To access and configure import exclusions

- 1. On the File menu, select Import and then click Electronic Discovery.
- 2. Click the **Settings** tab and then click **Exclusions**. The **Exclusions** options display.

🔍 LAW Electronic Discove	ry Loader X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools	
DeltaZ4ED	
	Exclusions         Items that meet the selected conditions are considered 'Conditional Exclusions' and are excluded completely from the target LAW database. These items are logged separately from other types of filters or exclusions. Entries can be viewed in the Log Viewer on the 'Conditional Exclusions' tab.         Predefined Exclusions <pre></pre>
Lock Settings Apply Settings Set As Default	
Version: 7.4.49	< Back Next > Start Cancel

- 3. Choose from among the following options:
- Exclude mail stores from e-doc processing (Mail store as e-doc) Prevents mail stores from being processed as e-docs. For example, if a mail store is contained in a folder that is selected for processing, the mail store would be recorded as a single e-doc record when this option is disabled. The mail store will still be processed as a mail store if it is added to the Source Queue.
- Exclude empty files (0 bytes) from processing (0 byte file) Prevents any native file that is empty (0 byte file size) from being copied or written to the database.
- E-Mail Date Range Exclusions Prevents e-mail sent between a specified date range from being imported.
  - Select a condition, for example **on or after**.
  - Select a date to which the condition applies.

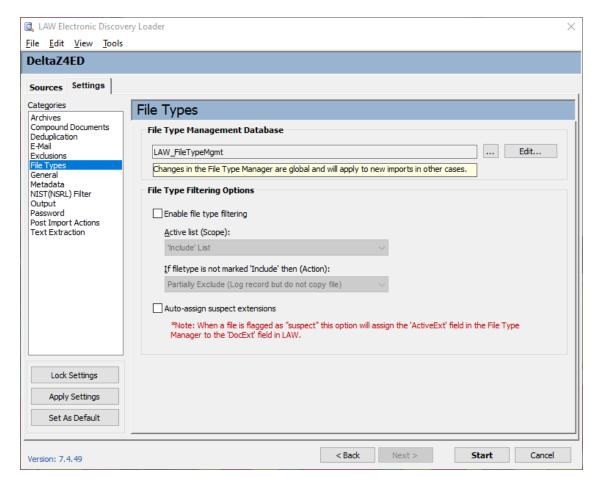
• If necessary, select **AND** or **OR** and then specify another condition and date.

File type settings allow users to identify specific files for processing. CloudNine<sup>™</sup> LAW supports import of all file types. Even if a file type is not supported for printing or conversion, metadata and text may still be extracted. After importing a file, if application is installed on the computer that is capable of opening and printing it, then the file can be processed to TIFF, PDF, or paper.

Files that could not be converted to TIFF can still be exported and delivered in native file format. Provided the reviewer has the native file application, the file can be opened and reviewed. For this reason, loading all file types into LAW is recommended. However, it is understandable that users may not wish to import certain file types, such as common system files.

#### **To access and configure file type options**

- 1. On the File menu click Import and then click Electronic Discovery.
- 2. Click the **Settings** tab and then click **File Types**. The **File Types** options display.



- 3. The file type management database is selected in the LAW Configuration Utility.
- 4. Configure options for file types as needed:
  - Enable File Filtering If this option is disabled, all files will be imported. If enabled, the files imported will depend on the selected scope.

**Active List (Scope)** - Specifies a list that identifies files to import. You can identify a list as an **Include** list or as an **Exclude** list.

If filetype is not marked 'Include' then (Action): Options include:

**Include** - This option will copy the native file and log a record in the database.

**Partially Exclude** - This option will not copy the native file but will log a record in the database.

**Exclude** - This option will not copy the native file or log a record in the database.

Note the following facts about using these kinds of lists:

 If the Include list is selected, file types marked as Include in the File Type Manager's Include list will be imported. Files that are not checked in the Include list will be excluded.

- If the Exclude list is selected, file types marked as **Exclude** in the list are excluded from import. File types that are not marked as **Exclude** in the list will be imported.
- Lists are evaluated independently of each other. If the **Include** list is selected as the active list, or scope, the **Exclude** list is not considered during the import and vice versa.
- Auto-assign suspect extensions assigns inferred extensions to files identified with suspect extensions.
- 5. Click Edit. The Manage File Types dialog box opens.

nnected To: LAW_FileTypeMgmt	1.17					🔎 Extension		
<all entries=""> (4648) Included (3292)</all>		)rag a col	umn head	er here to g	roup by that column.			
Excluded (1417)		Inc.	Exc.	File ID	Description	Extensions	Active Ext.	Extrac
Platforms					1 Disk Directory			
Content Types					2 Disk Volume Label			
Storage Types					3 Text File	TXT DOC INI IN	TXT	
Assigned Applications					4 Graphics Interchang	GIF GIFF	GIF	
					5 MS Windows Bitmap	BMP DIB SYS R	ВМР	
					6 Amiga Interchange F	LBM IFF ILM BB	LBM	
					7 MS Paint Bitmap	MSP	MSP	
					8 AutoDesk Animator	FLI FLC FII	FLI	
					9 GEM VDI Paint Image	IMG GEM	IMG	
				1	0 PC Paint/Pictor Pag	PIC PICTOR CLP	PIC	
		<b></b>		1	1 PC Paintbrush Bitmap	PCX PCC	PCX	
		<b></b>		1	2 PKZip Archive	ZIP JAR WMZ	ZIP	
				1	3 MacBinary (Mac Dat	MAC	MAC	
				1	4 Creative Voice Sound	VOC	VOC	
				1	5 DOS Program	EXE COM SYS O	. EXE	
				1	6 Amiga SoundTracke	MOD NST	MOD	
				1	7 Macintosh Sound +	SND HCO	SND	

- △ Changes in the File Type Manager are global and will apply to new imports in other cases. Both Turbo Import and Electronic Discovery cases are affected.
- 6. Configure file inclusion and exclusion lists, and other options:
  - **Inc.** Files marked as **Include** will be imported if the active list is set to the Include list.
  - **Exc.** If Exclude is set as the active list, then anything not marked as **Exclude** will be imported.
  - **Multiple file type databases can be created**. This feature can be useful when establishing procedures on specific files to exclude from processing. The File menu in the File Type Manager is used to create new file type databases, open existing databases, and save changes to the current database.
  - Assign default source applications for each file type.

- Select whether or not to extract text from each file type.
- Auto Assign Suspect Extensions Performs maintenance actions if a file extension does not match the actual file type. When enabled, if the extension of the incoming file does not match any extensions in the Extensions field in the File Type Manager for the assigned file ID, LAW assigns a new extension from the Active Ext. field to the DocExt field, and records the original extension in the OrigExt field.
- If Auto Assign Suspect Extensions is not enabled and a suspect file is found, the SuspectExt field is marked as Y, but the OrigExt field is not populated and the DocExt field keeps the original file extension.

□ File Type Management with SQL Server Version 6.18+

Prior to version 6.18, the File Type Management database was only available in Access. Version 6.18 allows the opportunity to transfer the database into SQL. SQL allows a central location for FTM database storage that all work stations can use. You can also create Case specific databases.

<u>Creating a SQL based File Type Management database as the default</u>

After installing LAW version 6.18+, you will have the opportunity to transfer the Access File Type Management database to a SQL server.

- 1. On the File menu, select **Import** and then select **Electronic Discovery**.
- 2. The first time after upgrading the version of LAW and opening Electronic Discovery, Server Connection Information will open to provide the option for configuring use in SQL.

👃 Server Connection Information						
Configure File Type Manger Connection						
Server Name:	SQL I	nstance Name				
	🔳 Us	e Windows Authentication				
<u>U</u> ser	Name:	LAW_User				
Pas	sword:	******				
<u>D</u> atabase:	LAW5_	Management				
		OK Cancel				

- 3. To continue with an Access File Type Management database, select Cancel.
- 4. Configure options for the File Type Manager Connection.

Field	Possible Values	Description
Server Name	Computer Name\SQL Express	This is the name of the SQL instance of which you will store the file type management database.
Use Windows Authentication		Enable if you use Windows Authentication for the SQL instance's login security.
User Name	Law_User	The default login for the SQL instance is law_user.
Password	*****	The default password for the law_user is stored. (Contact technical support for assistance.)
Database	LAW5_Management	The default name is LAW5_Management. *

\*LAW5\_Management is the default. If not using the default, then it is recommended to start each file type management database with (FTM) followed by the same naming sequence for example: FTM no MOV files or FTM exclude excels. This helps to distinguish the file type management databases in your SQL server from other databases

<u>Creating a case Specific File Type Management database</u>

After installing LAW version 6.18+, you will have the opportunity to transfer the Access File Type Management database to a SQL server.

- 1. On the File menu, select **Import** and then select **Electronic Discovery**.
- 2. The LAW Electronic Discovery Loader will open in a new window.

🔍 LAW Electronic Discovery Loa	ader			×
File Edit View Tools				
NEW ED				
Sources Settings				
Default Target Folder:			Session Label:	
<case root=""></case>			Session [&SESSION_ID] on [&CASEN	IAME]
Default Custodian:			DocID Seed: (max len. 45)	
<none></none>		×	0000000	
Source Queue				Add:
Source Name	Custodian	Target Folder	Source Path	Mail Store
				Outlook Fldr.
				Folder(s)
				Folder(s)
				File(s)
				File List
				Failed Items
				T dica racina
				View Details
				View Details
				Remove:
				Remove Item
Reset All Reset Nar	mes Reset Cstdns. F	Reset Folders	Show source paths	Clear All
Version: 7.0.200		< Ba	ck Next > Star	t Cancel
Version: 7.0.200		100	Star	

3. Select the **Settings** tab, then select **File Types**.

	🔍 LAW Electronic Discove	ry Loader			
	File Edit View Tools	ile Edit View Tools			
	Charles Is here				
	Sources Settings				
	Categories Archives	File Types			
	Compound Documents Deduplication	File Type Management Database			
	E-Mail Exclusions File Types	LAW5_Management Edit			
	General Metadata	File Type Filtering Options			
	NIST(NSRL) Filter Output Password	Enable file type filtering			
	Post Import Actions Text Extraction	Active list (Scope):			
		'Include' List v			
		If fletype is not marked 'Include' then (Action):			
		Partially Exclude (Log record but do not copy file)			
		Auto-assign suspect extensions			
© 2024 CloudNine™. All		*Note: When a file is flagged as "suspect" this option will assign the 'ActiveExt' field in the File Type Manager to the 'DocExt' field in LAW.			
	Lock Settings				

The General category of ED Loader options identifies source selection and the file type management database. You also use the General category to enable distributed processing of an import job.

### To access and configure general options

- 1. On the **File** menu, select **Import** and then click **Electronic Discovery**.
- 2. Click the **Settings** tab and then click **General**. The **General** options display.

LAW Electronic Discove	ry Loader	×
DeltaZ4ED		
Sources Settings		
Categories Archives Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	General         Source Selection	
Lock Settings Apply Settings Set As Default	Enable distributed processing Type: OPEN (Any online dient will join)	
Version: 7.4.49	< Back Next > Start Cancel	

- 3. Choose from among the following options:
  - Ensure source names are unique when they are added to the queue When enabled, ensures there are no duplicate source names in the Source Queue. This feature is particularly useful when dealing with multiple mail stores with a source name of "Personal Folders." In this example, the first occurrence of the mail store will be named Personal Folders, while any subsequent mail stores will be added as Personal Folders-001, Personal Folders-002, and so on.

- Automatically set E-Doc folder sources to 'Recurse' when I add them via drag and drop - If using the drag and drop method to select sources for processing, enabling this option adds the selected folder and all subfolders to the source queue. If this option is not enabled, only the selected folder is added to the queue.
- Scan folder selections for supported mail stores when added to the queue -Ensures the ED Loader searches for supported mail stores in folders that are selected for processing and adds them to the queue as mail stores. This option is also located in the **Select Folders** dialog when selecting sources. Two sub-options are available:
  - Scan supported archives When enabled, this option ED Loader searches supported archive files for supported mail stores. If a mail store is found, the Extract Stores dialog box opens. You can then select a location where ED Loader can extract the mail store(s) prior to processing. After mail stores are extracted they are added to the queue.
  - Add selected folder to queue when mailstore scan is active Forces the selected folders to be added to the queue as e-doc folders following the scan for mail stores. For example, if a folder is selected that contains 5 XLS files and 1 PST mail store, and this option is enabled, two sources will be added to the queue (one file set (5 XLS files and one PST mail store.) In this example, if the option is disabled, only the mail store would be added to the queue and the folder of XLS files would not be processed.
- Active database If file type filtering will be used, this option will identify which database is referenced during the import. New databases may be created and existing databases may be applied in the File Type Manager. See the <u>File Types</u> section for additional information.
- **Time Zone Selection** Shifts all date and time fields to the selected time zone. The default is the Time Zone registered in Windows for the local computer. Note that this setting also automatically changes the time zone for the imported items when you e-print or convert documents to TIFF files. The date and time information in the print output of items match the imported metadata.
- ▲ When you are doing single-document TIFF conversion, the time zones that are associated with image or PDF files do not automatically adjust to match the time zones of the native files. In such circumstances, if you need dates to match between the native files and image or PDF files, you can manually change the time zone on your system prior to printing to match the time zone of the native files. For more information about converting documents to TIFF or PDF, see <u>Converting Documents to TIFF</u>
- Enable Distributed Processing Allows other LAW computers to share in the processing of a case.
  - Click **Edit**, select an invitation type, schedule a time to run the job, select clients to participate in the job and then click **Accept**.
  - For more implementation details regarding Distributed ED Loader sessions see <u>Distributed Electronic Discovery</u>.

• After you start a distributed loading session, you can monitor its progress and perform other management tasks using the LAW Management Console (LMC). For more information on managing distributed import jobs, see: <u>Using the LMC</u>.

You can configure ED Loader to selectively import custom metadata from various types of documents.

✓ You can also extract custom metadata from documents after documents have been imported into LAW using the Document Processing/Analysis feature in the Batch Processing utility. For more information, see <u>Extracting Custom Metadata</u>.

# To access and configure metadata options

- 1. On the **File** menu, select **Import** and then click **Electronic Discovery**.
- 2. Click the **Settings** tab and then click **Metadata**. The **Metadata** options display.

DeltaZ4ED         Sources       Settings         Categories       Archives         Archives       Compound Documents         Deduplication       Capture custom metadata for Adobe PDF files         Exclusions       Capture custom metadata for MS Office files         General       Capture custom metadata for MS Office files         Metadata       Capture custom metadata for MS Office files         Capture EXEP metadata for MS Office files       Capture EXEP metadata for MS Office files         Password       Detect comments for MS Word/Excel/PowerPoint and PDF files         Password       Detect tracked changes for MS Word and Excel files         Detect hidden rows and/or columns for MS Excel files       Detect hidden sheets for MS PowerPoint files         Detect hidden sheets for MS PowerPoint files       Detect speaker notes for MS PowerPoint files         Detect speaker notes for MS PowerPoint files       Detect speaker notes for MS PowerPoint files	×	W Electronic Discovery Loader Edit View Tools	-	
Categories       Metadata         Archives       Compound Documents         Deduplication       Capture custom metadata for Adobe PDF files         E-Mail       Capture custom metadata for MS Office files         General       Capture custom metadata for MS Office files         Metadata       Capture custom metadata for MS Office files         NIST(NSRL) Filter       Capture EXIF metadata for image files (TIFF/JPEG)         Output       Detect comments for MS Word/Excel/PowerPoint and PDF files         Post Import Actions       Detect tracked changes for MS Word and Excel files         Detect hidden rows and/or columns for MS Excel files       Detect hidden sheets for MS Excel files         Detect hidden slides for MS PowerPoint files       Detect speaker notes for MS PowerPoint files         Lock Settings       Lock Settings		taZ4ED	eltaZ4	
Archives       Implete Catal         Archives       Compound Documents         Deduplication       Capture custom metadata for Adobe PDF files         E-Mail       Capture custom metadata for MS Office files         General       Capture custom metadata for MS Office files         Metadata       Capture custom metadata for MS Office files         Output       Detect comments for MS Word/Excel/PowerPoint and PDF files         Password       Detect tracked changes for MS Word and Excel files         Detect hidden rows and/or columns for MS Excel files       Detect hidden slides for MS PowerPoint files         Detect hidden slides for MS PowerPoint files       Detect speaker notes for MS PowerPoint files         Detect speaker notes for MS PowerPoint files       Detect speaker notes for MS PowerPoint files         Detect speaker notes for MS PowerPoint files       Detect speaker notes for MS PowerPoint files		rces Settings	ources	
E-Mail       Capture custom metadata for Adobe PDF files         Exclusions       Capture custom metadata for MS Office files         General       Capture custom metadata for MS Office files         Metadata       Capture EXIF metadata for image files (TIFF/JPEG)         NIST(NSRL) Filter       Detect comments for MS Word/Excel/PowerPoint and PDF files         Password       Detect tracked changes for MS Word and Excel files         Post Import Actions       Detect tracked changes for MS Excel files         Text Extraction       Detect hidden rows and/or columns for MS Excel files         Detect hidden slides for MS PowerPoint files         Detect speaker notes for MS PowerPoint files         Detect speaker notes for MS PowerPoint files		pound Documents	Archives Compound	
General       Capture EXIF metadata for image files (TIFF/JPEG)         NIST(NSRL) Filter       Detect comments for MS Word/Excel/PowerPoint and PDF files         Password       Detect tracked changes for MS Word and Excel files         Detect tracked changes for MS Excel files       Detect hidden sheets for MS Excel files         Detect hidden sheets for MS PowerPoint files       Detect hidden sheets for MS PowerPoint files         Detect speaker notes for MS PowerPoint files       Detect speaker notes for MS PowerPoint files		al Capture custom metadata for Adobe PDF files	E-Mail	
NIST(NSRL) Filter         Output         Password         Post Import Actions         Text Extraction         Detect tracked changes for MS Word and Excel files         Detect hidden rows and/or columns for MS Excel files         Detect hidden sheets for MS PowerPoint files         Detect speaker notes for MS PowerPoint files         Lock Settings		eral	General	
Post Import Actions          □ Detect tracked changes for MS Word and Excel files         □ Detect hidden rows and/or columns for MS Excel files         □ Detect hidden sheets for MS Excel files         □ Detect hidden slides for MS PowerPoint files         □ Detect speaker notes for MS PowerPowerPowerPowerPowerPowerPowerPower		(NSRL) Filter Detect comments for MS Word/Excel/PowerPoint and PDF files	NIST(NSRL) Output	
Detect hidden rows and/or columns for MS Excel files     Detect hidden sheets for MS Excel files     Detect hidden slides for MS PowerPoint files     Detect speaker notes for MS PowerPoint files      Lock Settings		Import Actions Detect tracked changes for MS Word and Excel files	Password Post Import Actions	
Lock Settings			ext Extra	
Lock Settings				
Lock Settings				
		Detect speaker notes for MS PowerPoint files		
		Lock Settings	Lock	
Apply Settings		Apply Settings	Apply	
Set As Default		Set As Default	Set As	
Version: 7.4.40 < Back Next > Start Car				

- 3. Choose from among the following options:
  - **Capture custom metadata for Adobe PDF files.** Extracts metadata field names and values that were assigned to the original Adobe Acrobat PDF. Such fields might include the names of e-mail attachments, or of PDF's embedded in other files such as in a Micrsoft Word document.
  - **Capture custom metadata for MS Office files**. Extracts metadata field names and values that were assigned to Microsoft Office file, except for Publisher and Access files. Field names and data are brought into the LAW case as *extended properties*. See note below.
  - Capture EXIF metadata for image files (TIFF/JPEG). Extracts metadata field names and values from EXIF files. If found, custom metadata fields are added to the case database with field names preceded by EP.
  - Detect comments for MS Word/Excel/PowerPoint and PDF files. If comments in Microsoft Word, Excel, and PowerPoint files or sticky notes in Adobe Acrobat PDF files are detected, assigns a **Y** to the **HasComments** field.
  - **Detect tracked changes for MS Word and Excel files**. If tracked changes are found, assigns a **Y** to the **HasTrackChanges** system field.
  - Detect hidden rows and/or columns for MS Excel files. If hidden columns or rows are found, assigns a Y to HasHiddenRow and HasHiddenColumn, respectively.

- Detect hidden sheets for MS Excel files. If hidden sheets are found, assigns a Y to the HasHiddenSheet field.
- Detect hidden slides for MS PowerPoint files. If hidden slides are found, assigns a Y to the HiddenSlides field.
- Detect speaker notes for MS PowerPoint files. If speaker notes are found, assigns a Y to the SpeakerNotes field.
- Extended property metadata is placed in *extended property* fields that are created when the documents are imported or the metadata is extracted by the Batch Processing utility. The names of all extended property fields start with *EP*. The remainder of the field name depends on the name of the field as it exists in the source document. For example, if a Word document is imported that contains a custom metadata field called Typist, LAW will create a metadata field during the import or batch processing called *EPTypist*. Deleting a document will delete all corresponding extended properties for that document. For more information on extended properties, see: <u>Extended Properties in Grid Views</u>.

The chief purpose of NIST filtering is to focus investigation on user-generated data by removing from consideration files that are of types that are unlikely to be responsive. Examples of such file types include system files and executable files. The National Institute of Standards and Technology (NIST) is an agency of the U.S. Department of Commerce that maintains and publishes a database of known computer file profiles. This database is referred to as a reference data set (RDS) and is compiled by NIST's National Software Reference Library (NSRL).

The NIST filter uses the RDS database to compare files against a known set of software applications. The NIST filter is typically employed in forensics cases to scan for and remove system files and application logic files from consideration as case documents. When you enable the NIST(NSRL) filter, you can select one of the following actions for the import to take when a NIST(NSRL) record is detected:

- Include (Log record). Creates a record for the NIST file in the database and copies the native file into the case folder.
- Partially exclude (Log record but do not copy file). Creates a record in the database but does not copy the native file.
- Exclude (Do not log record or copy file). Does not create a record, no text is extracted, and the native file is not copied to the case folder.

 ${}^{{\scriptstyle {\footnotesize \hbox{\scriptsize I}}}}$  The following facts should be considered on when using the NIST filter:

- To make use of this option you must first download the database of known file types from the NIST website.
- E-mails are not tested against this filter although their attachments are tested.

- If an archive's hash is present in the NSRL database, then it is automatically marked as a NIST item and depending on your settings it will be filtered out and its contents are not evaluated or logged to CloudNine<sup>™</sup> LAW. This also applies to embedded/attached archives. If the archive's hash is not present, then its contents are evaluated on a file-by-file basis.
- Enabling this option will mark as NIST files, any files present in the configured hash database using the documents' SHA-1 hash values.

For more information about the RDS database, visit the <u>NSRL website</u>. Please contact technical support if the website NIST/NSRL government website isn't available.

The rest of this topic discusses NIST filters when used in the context of document import with ED Loader.

🔍 LAW Electronic Discovery Loader	×
<u>File Edit View T</u> ools	
DeltaZ4ED	
Sources Settings	
Categories NIST(NSRL) Filter	
Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter UAW_NIST If records are detected as NIST(NSRL) then (Action): Include (Log record) Include (Log record) Click here to learn more about the NIST(NSRL) hash database Launch LAW Configuration Utility to upload NIST(NSRL) hash database.	
Lock Settings	
Apply Settings	
Set As Default	
Version: 7.4.49          Start         Cancel	

# **SQL Server NIST Configuration**

To Enable NIST (NSRL) Filter filtering

- 1. Open an Electronic Discovery Loader enabled case.
- 2. From the File menu select Import then Electronic Discovery.
- 3. Select the Settings tab.
- 4. Select the **NIST(NSRL)** Filter category.
- 5. Enable NIST(NSRL) Filter.
- 6. The Hash Database is configured through the LAW Configuration Utility.

If records are detected as NIST(NSRL) then (Action): Select one of the following options from the drop down.

- **Include (Log record)** Creates a record for the NIST record in the database and copies the native file into the case folder.
- **Partially Exclude (Log record but do not copy file)** Creates a record in the database but does not copy the native file.
- Exclude (Do not log record or copy file) Does not create a record, no text is extracted, and the native file is not copied to the case folder.

#### How to create a NIST database in SQL

Launch the LAW Configuration Utility

Go to the NIST tab in the Configure Environment section.

The NIST database must be configured and appended through the LAW Configuration Utility.

The output settings determine how selected sources are identified and organized in the tree view of CloudNine<sup>™</sup> LAW.

### To access and configure output options

- 1. On the **File** menu, select **Import** and then click **Electronic Discovery**.
- 2. Click the **Settings** tab and then click **Output**. The **Output** options display.

LAW Electronic Discove	ry Loader	×
File Edit View Tools DeltaZ4ED		
Sources Settings		
Categories Archives Compound Documents Deduplication	Output Folder Output Scheme	
E-Mail Exclusions File Types	Relative (Output path is relative to selection) (Applicable to EDoo	c selections only) V
General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Options Categorize output sources (E-Mails/E-Docs) Use source name as top level folder Ensure root output folder is unique in LAW Only applicable to sources that are not mapped to the root folder in LAW. The 'Source name as top level folder' option will also enable this option	Structure Output Structure (Case Root) LTarget Folder (as configured on 'Sources' tab) LSource Name (as configured on 'Sources' tab) * Uniqueness enforced below specified structure
Lock Settings Apply Settings Set As Default		
Version: 7.4.49	< Back	Next > Start Cancel

- 3. Configure output options as needed:
  - Folder Output Scheme
    - Relative (Output path is relative to selection) (Applicable to EDoc selection only) This option applies to e-doc selections only. The path created in the tree view starts with the selected folder, or with the folder containing the selected files. Use this setting if you want to shorten paths. It can also help to limit issues that result from path naming limitations of operating systems. This option does not apply to mail stores. Paths within mail stores are always mirrored on import.
    - **Mirrored** Re-creates the entire folder structure of the selected electronic files in the tree view of the main window of CloudNine<sup>™</sup> LAW.
  - Options
    - Categorize output sources (E-Mails/E-Docs) When enabled, all mail store sources will be imported into an "E-Mail" folder and all e-doc sources (including loose e-mail) will be imported into an "E-Doc" folder.
    - Use source name as top level folder The Source Name, as displayed in the Source Queue on the Sources tab, will be used as the top level folder name for each source when imported into CloudNine<sup>™</sup> LAW.
    - Ensure root output folder is unique in LAW Ensures the target folder for each source is unique in CloudNine<sup>™</sup> LAW. This only applies when <Case Root> is NOT

set as the target folder for a source or sources. For example, if this option is checked and the other two output options (listed above) are not checked and a user loads to folders that are both named "EDOC" into a folder in LAW named 001CD, LAW will import one of the EDOC folders into a 001CD-001 folder and the other EDOC folder into a 001CD-002 folder. This will prevent records in both EDOC folders from being loaded into one folder.

• **Structure** - Previews of the folder structure in LAW (following the import), depending on the selected Output options.

In version 6.17.96+ you can configure ED Loader to use passwords for processing encrypted files. The Passwords tab allows you to enter any known passwords for password-protected Adobe Acrobat PDF, office files (ex. PPT, PPTX, DOC, DOCX, XLS and XLSX files), Pkzip, Zipx and 7zip files. All passwords in the passwords section are case-sensitive. If the password for a file is Abc123, then Abc123 would need to be entered; abc123 will not unlock the file.

- ED Loader passwords will temporarily decrypt the previously mentioned file types and extract both metadata and content from the protected documents.
- Passwords are global.

You have one list of passwords for all LAW databases on that computer. If you are working in Case A, add passwords, and switch to Case B; then you will see the same password list in Case B. See <u>Sharing the password list across multiple computers.</u>

- ▲ If you are imaging the encrypted files then you will need to enter the passwords again in your Tiff settings.
- ▲ The encrypted files will remain encrypted when exported.

### To access and configure your passwords for office and pdf files

- 1. On the File menu click Import and then click Electronic Discovery.
- 2. Click the **Settings** tab and then click **Password**.

🕵 LAW Electronic Discove	/ery Loader	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools		
DeltaZ4ED		
Sources Settings		
Categories Archives	Password	
Compound Documents Deduplication	Passwords to be used for processing encrypted files	
E-Mail Exclusions File Types General	Password C:\Program Files (x86)\LAW50\edloader\edloader.pwdfile.txt	
Metadata NIST(NSRL) Filter Output Password Post Import Actions	Passwords (0) Current	
Text Extraction	Add Update	
	Delete	
	Clear All	
Lock Settings		
Apply Settings		
Set As Default		
Version: 7.4.49	< Back Next > Star	rt Cancel

### ☑ All passwords are case sensitive without character limitations.

### To Add a password.

- 1. Enter the password in the box under Current.
- 2. Then select Add.
- 3. Repeat the process for as many passwords as needed.

### To Update a password.

- 1. Select the password that you need to correct under Passwords(#).
- 2. Then edit the password in the Current box.
- 3. Select Update when your changes are complete.

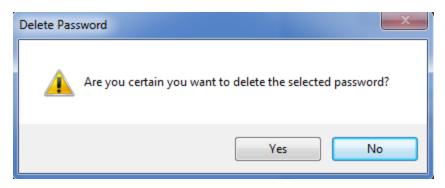
LAW Electronic Discovery Loader					
File Edit View Tools					
Enron PST test					
Sources Settings					
Categories Archives	Password				
Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Passwords to be used for processing end Password C:\Program Files (x86)\LAW50\edloader\ed Passwords (3) Green42 Test1234 Yes1234				
Lock Settings Apply Settings Set As Default					
Version: 6.17.69		<pre></pre>			

# To Delete a password.

- 1. Select the password that you need to delete under Passwords(#).
- 2. Then select **Delete**.

File Edit View Tools Enron PST test			
Enron PST test			_
Sources Settings			
Categories P	assword		
Archives Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Passwords to be used for processing encry Password C:\Program Files (x86)\LAW50\edloader\edlo Passwords (3) Green42 Test1234 Yes 1234		
Version: 6.17.69	[	< Back Next > Start C	ancel

3. You will then get a prompt, "Are you certain you want to delete the selected password?



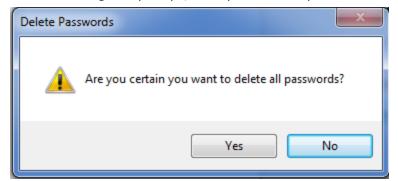
- 4. Select **Yes** and the selected password will be removed from the list.
- 5. Selecting **No** will bring you back to the Password screen without deleting the password.

#### To Delete all passwords.

1. Select Clear All.

🔍 LAW Electronic Discover	ry Loader	×
File Edit View Tools		
Enron PST test		
Sources Settings		
Categories Archives Compound Documents Deduplication	Password Passwords to be used for processing encrypted files	
E-Mail Exclusions File Types General	Password C:\Program Files (x86)\LAW50\edloader\edloader.pwdfile.txt	
Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Passwords (3) Current Green42 Test1234 Yes1234 Add Update Delete Clear All	
Lock Settings Apply Settings		
Set As Default		
Version: 6.17.69	< Back Next > Start Can	:el

2. You will then get a prompt, "Are you certain you want to delete all passwords?



- 3. Select **Yes** and all passwords will be removed from the list.
- 4. Selecting **No** will bring you back to the Password screen without deleting the passwords.

Sharing the password list across multiple computers.

- 1. Close LAW.
- 2. Open a File Explorer window.
- 3. Browse to C:\Program Files (x86)\LAW50\EDLoader.
- ☑ When using LAW with UAC (User Account Control) enabled, the LAW50 folder may be redirected to the virtual store. The virtual store is located in the profile of the current user, for example:

C:\Users\<User>\AppData\Local\VirtualStore\Program Files (x86) \Law50\EDLoader.

- 4. Copy the edloader.pwdfile.txt file.
- 5. Browse out to a location on the network that all computers can access for example the network share where cases are stored.
- 6. Paste the edloader.pwdfile.txt file to the above location.
- 7. Copy the UNC path of the new location for the edloader.pwdfile.txt.
- 8. Lauch LAW.
- 9. Open the case/database.
- 10. Go to File>Import>Electronic Discovery>Settings>Passwords.

Big Case		
Sources Settings ategories Archives Compound Documents Deduplication E-Mail E-Mail E-Mail E-Mail E-Mail E-Mail E-Mail MIST (NSRL) Filter Output Post Import Actions Text Extraction	Passwords to be used for processing encry Password File [\\ngrdul-4171681\Share\edioader.pwdfile.bu Passwords (6) password1 password2 password2 password2 password3 password4	
Lock Settings		
Set As Default	1	

- 11. Select the ellipses next to the original path.
- 12. Paste the path from step 7 into the file browser that is open.
- 13. Select edloader.pwdfile.txt.
- 14. Select Open.

15. The path has now been changed for this computer. Repeat the above process from step 7 for other computers on your network.

- ▲ If you add a new computer, or uninstall LAW, then you will need to repeat the above process for the new or reinstall of CloudNine<sup>™</sup> LAW.
- By default, if the password is configured on this computer and a distributed import is ran, then the passwords loaded here will be utilized on all computers involved in the distributed import.
- This feature can be used with the <u>Reprocessing Failed items</u> feature for files from prior imports (imports using version 6.15.083+) that failed due to password encryption.

Post-import actions configure CloudNine<sup>™</sup> LAW to continue to perform the next tasks in a workflow unattended, without the need of user intervention.

If no options are selected and your case is SQL Server-based, you are prompted to index documents.

# To access and configure post import actions

- 1. On the File menu, select **Import** and then click **Electronic Discovery**.
- 2. Click the **Settings** tab and then click **Post Import Actions**. The **Post Import Actions** options display.

LAW Electronic	
File Edit View	lools
	-1
Sources Setting Categories Archives Compound Documer Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Post Import Actions         Ints         These actions will be executed when the session is complete:         Convert imported documents to TIFF         Display imported documents in grid         Perform full-text indexing         Results dialog will close after         600         seconds, unattended.
Apply Settings	
Set As Default	
Version: 7.4.49	< Back Next > Start Cancel

- 3. Configure post-import actions as needed:
  - Convert imported documents to TIFF When enabled, the Display imported documents in grid option will be automatically selected and grayed out. LAW will automatically attempt to convert the imported documents to TIFF images after it has closed the results dialog and after a specified number of seconds.
- ▲ If you plan to enable the option to convert imported documents to TIFF, configure TIFF conversion settings *before* you run an ED Loader session.

- **Display imported documents in grid** Following the import, LAW will close the results dialog after the specified number or seconds. Then, the grid view will launch and display only the records imported during that session.
- **Perform full-text indexing** When enabled, LAW will automatically begin indexing any documents flagged to be indexed immediately after closing the results dialog that appears following the import.
- **Results dialog will close after <N> seconds, unattended** Allows users to specify the number of seconds to pass before the results dialog is closed and the selected post import action takes place. The default is 600 seconds. This option is active only if one of the above options is selected.
- 1. On the File menu, select Import and then click Electronic Discovery.
- 2. Click the **Settings** tab and then click **Text Extraction**. The **Text Extraction** options display.

🔍 L	AW Ele	ctronic	Discove	ery Loader	$\times$
<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	<u>T</u> ools		
Del	taZ4	ED			
Sou	rces	Setting	js		
	gories nives			Text Extraction	
Ded E-M	uplicati	Docume on	nts	Enable Text Extraction	
Gen	Types eral adata			Include metadata in extracted text Enable binary scanning in text extraction	
NIS Out	T(NSRL) put	) Filter		✓ Validate extracted text	
Pos	sword t Impor t Extra	t Actions	s	Identify hidden text content	
	LXUA	CUOIT		Identify language content	
				Limit content analysis to first 0 KB of file (Note: Limit of 0 will scan entire file)	
				Restrict language identification to common languages	
	Lock	Settings			
	Apply	Settings	S		
	Set As	s Defaul	t		
Versi	ion: 7.4	1.49		< Back Next > Start Cancel	

3. Configure text extraction options as needed:

-	•					
Option	Description					
Enable Text Extraction	Enables text extraction options from applicable files during an ED Loader import session.					
	You must select this option to access any other options for text extraction.					
Include metadata in extracted text	Includes any available document properties in the extracted text file, for example: Author, Title, etc.					
Enable binary	Forces all file types to be scanned for text.					
scanning in text extraction	This option works by overriding the <b>Ext. Text</b> flag in the File Type Manager (see <u>File Types</u> ).					
	If you enable this option, it is recommended that you also enable the <b>Validate extracted text</b> option.					
Validate extracted	Scans each text file for readable text.					
text	Use this option to filter text files containing only form feed and other control characters. Text files that do not contain readable text are marked as invalid and discarded.					
Identify hidden text content	Detects specific kinds of hidden text in Word, Excel, and PowerPoint documents.					
	Hidden text can be found in these forms:					
	<ul> <li>Text that is hidden inside shape controls, for example, text boxes, etc.</li> </ul>					
	• Text formatted as Hidden.					
	<ul> <li>Hidden spreadsheets, spreadsheet columns, and spreadshee cells.</li> </ul>					
	• Hidden slides.					
	If hidden text is detected the following actions occur:					
	• The hidden text is added to the start of the extracted text for the document under the Text tab.					
	• The hidden text appears at the top of the document in a section marked with <<< START HIDDEN CONTENT >>>< END HIDDEN CONTENT >>>. Page numbers within the hid content area can help you determine the context for the hidden text.					
	• The <b>HiddenText</b> field for the document is assigned a <b>Y</b> .					
	Note					
	<ul> <li>Enabling this option may decrease import speeds.</li> </ul>					

• Enabling this option may decrease import speeds.

Option	Description					
Identify language	Identifies the first 5 languages used in each document.					
content	When you create a new case or when you open a case that was created using a previous version of CloudNine <sup>™</sup> LAW, a field named <b>Language</b> is created that stores language identifiers.					
	Note the following:					
	<ul> <li>Single word sentences are not evaluated.</li> </ul>					
	<ul> <li>A language with only one occurrence in the document is ignored.</li> </ul>					
	• After the first language is identified, to be added Language field, the second through fifth languages require a hit percentage of at least 15% of document text.					
	<ul> <li>Enabling this option may decrease import speeds. To improve speeds, try using the option to limit analysis to the first kilobytes of each file.</li> </ul>					
Limit content analysis to first _ KB of file	Limiting analysis can help to enhance performance.					
Restrict language identification to	Limiting identification to common languages can help to enhance accuracy.					
common languages	Note the following:					
	<ul> <li>This setting is enabled by default and persists between sessions.</li> </ul>					
	<ul> <li>When this setting is enabled, only the following languages are detected:</li> </ul>					
	Arabic					
	Bengali					
	Chinese: Simplified Chinese, and Traditional Chinese					
	Czech					
	Danish Dutch					
	English					
	Finnish					
	French					
	German					
	Greek					
	Hebrew					
	Hindi					
	Hungarian					

Option	Description
	Italian
	Japanese
	Korean
	Latin
	Norwegian Bokmål
	Norwegian Nynorsk
	Polish
	Portuguese
	Russian
	Spanish
	Swedish
	<ul> <li>If a supported language is not encountered, a value of Unknown is returned. This value might also be returned if only a small amount of content is available.</li> </ul>
	<ul> <li>When multiple languages are detected, they are delimited with semi-colon.</li> </ul>

You can setup import session defaults, such as locking and unlocking settings, saving the current settings as default, or set the settings and the DocID seed in current use as the default for future sessions.

Lock Settings
Apply Settings
Set As Default

Use the Settings tab in ED Loader to select among options for saving ED Loader settings:

**Lock Settings** or **Unlock Settings** - Toggles between locking and unlocking import settings. When locked, settings cannot be changed.

- **Apply Settings** Saves the currently selected settings and applies them if you restart ED Loader. Use this option if you want to temporarily close ED Loader before running the import session. Settings are saved to a case-level ED Loader configuration file. For more information on stopping and restarting ED Loader sessions, see <u>Cancelling and Resuming Sessions</u>.
- Set as Default Saves the current Settings tab selections and the DocID seed as default for all cases started with the same LAW executable.

## **Reprocessing Failed Items in Electronic Discovery**

This feature will enable reprocessing of records that had one of the following errors during prior Electronic Discovery sessions: Write failed, Attachment Extraction failed, Embedded Image Extraction failed, and/or Compound Doc.Extraction failed.

How to determine whether to process Failed Items

- Different scenarios and Reprocess behaviors
  - Password protected compound document The compound document will be copied to the reprocess folder (\$Repository\\$Files) for reprocessing.
  - Password protected archive The archive document will be copied to the reprocess folder for reprocessing.
  - Archive contains password protected document with "Treat archive as attachment container" option selected

The parent archive is logged into Law successfully The password protected document will be copied to the reprocess folder for reprocessing.

• Archive contains password protected document without "Treat archive as attachment container" option

The parent archive is not logged into Law The password protected document will be copied to the

The password protected document will be copied to the reprocess folder for reprocessing.

- Archive embedded with password protected archive with "Treat archive as attachment container" and "Include embedded archive" options The parent archive is logged into Law successfully. The embedded password protected archive will be copied to the reprocess folder for reprocessing.
- Archive embedded with password protected archive with "Treat archive as attachment container" option and without "Include embedded archive" option Only the parent archive is logged into Law successfully.
- Password protected archive embedded with another archive with "Treat archive as attachment container" and "Include embedded archive" options The password protected archive will be copied to the reprocess folder for reprocessing.
- Archive embedded within email item. The parent archive and email item is imported into law successfully. The password protected document will be copied to the reprocess folder for reprocessing.
- Emails with password protected attachments

The parent document (Email) is processed successfully.

The password protected attachment(s) will be placed into the reprocess folder for reprocessing.

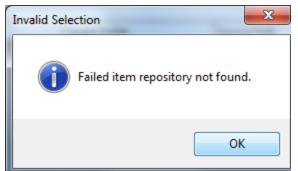
You can determine if reprocessing is needed by either checking your prior ED Loader Session Logs for processing errors/warnings or select the **Failed Items** tab.

To Check the ED Loader Session Logs for processing errors/warnings

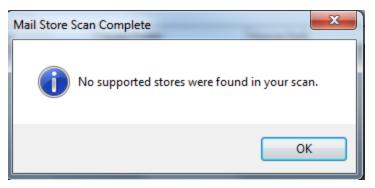
- 1. **Review the Session Log** by opening the Session Viewer. For more information on the Session Viewer, see: <u>Session Browser and Session Viewer</u>.
  - Look for records listed in the **Incomplete** or **Commit** tabs.
  - If records are listed in either of these tabs, they were not imported.
  - Records appearing in the **Incomplete** tab might be able to be resolved by resuming the ED Loader session. If this does not work, try reprocessing the files.
  - Records appearing in the **Commit** tabs will need to be re-processed.
  - The **Insert** feature may be used if maintaining order is necessary.
- 2. **Review the ErrorMsg field** in the CloudNine<sup>™</sup> LAW case database to identify errors and determine what action will take place to resolve the error

#### Select the Failed Items tab

- Once the Failed Items tab has been selected then LAW will search the "\$Repository" in the case directory for native files that are copied to "\$Repository \\$Files", and the metadata information is copied to the "\$Repository \\$Metadata" folder.
- If there are no records in either folder then you will get the prompt "Failed item repository not found."



- After selecting **OK**, **LAW Electronic Discovery Loader** will have **Failed Items** grayed out.
- If there are records to be processed then LAW will scan the \$Repository for mailstores.
- If no mail stores are present then following is displayed.



After selecting **OK**, **LAW Electronic Discovery Loader** displays \$Files to be processed and the Source Path to the files in \$Repository.

🔍 LAW Electronic Discovery Loader	r				×
File Edit View Tools					
Lisa Was Here					
Sources Settings					
Default Target Folder:			9	Session Label:	
PDF\Desktop\Desktop				Session [&SESSION_ID] on [&CASENAME]	
Default Custodian:			I	DocID Seed: (max len. 45)	
<none></none>		▼		00002445	
Source Queue					Add:
Source Name Custo	odian	Target Folder	So	urce Path	Mail Store
🗆 🧔 E-Doc Folders		-			Outlook Fldr.
\$Files <non< td=""><td>ne&gt;</td><td>PDF \Desktop \Desktop</td><td>۱µ</td><td>ngrdud-7003237\c\Us\\$Files &lt;+&gt;</td><td></td></non<>	ne>	PDF \Desktop \Desktop	۱µ	ngrdud-7003237\c\Us\\$Files <+>	
					Folder(s)
					File(s)
					File List
					Failed Items
					View Details
					View Details
					Remove:
					Remove Item
Reset All Reset Names	Reset Cstdns.	Reset Folders		Show source paths	
Incact Air		Acocci oldero		in onon source pauls	Clear All
Version: 6.15.73		< B	lack	Next > Start	Cancel

#### How to Reprocess Failed Items

To reprocess failed items, a new button named **Failed Items** has been added to LAW Electronic Discovery Loader. Once the button is selected the "\$Repository" folder is added to the Source queue.

🔍 LAW Electronic Discovery Loa	ıder				×
File Edit View Tools					
Lisa Was Here					
Sources Settings					
Default Target Folder:				Session Label:	
PDF\Desktop\Desktop				Session [&SESSION_ID] on [&CASENAME]	
Default Custodian:				DocID Seed: (max len. 45)	
<none></none>		▼		00002445	
Source Queue					Add:
Source Name Cu	ustodian	Target Folder	So	urce Path	Mail Store
= 🧔 E-Doc Folders					Outlook Fldr.
\$Files <1	None>	PDF\Desktop\Desktop	W	ngrdud-7003237\c\Us\\$Files <+>	
					Folder(s)
					File(s)
					File List
					Failed Items
					View Details
					view Details
					Remove:
					Remove Item
Reset All Reset Nam	mes Reset Cstdns.	Reset Folders		Show source paths	
Reset All	Reset Cstans.	Reset Folders		Show source paths	Clear All
			_		
Version: 6.15.73		< B	lack	Next > Start	Cancel

- ▲ Selecting **Failed Items** and then **Start** without first resolving the problem that caused the records to error during import will result in another copy of the errored file being imported into your database.
- Failed items are records from prior imports(since installing version 6.15.83) that failed for one of the following reasons: Write failed, Attachment Extraction failed, Embedded Image Extraction failed, and/or Compound Doc.Extraction failed.

Before reprocessing failed items through EDLoader, you will need to resolve the cause for the records to error.

#### <u>Reprocessing password protected records</u>

Browse to the case folder/\$Repository folder. The native files are copied to \$Repository \\$Files, and the metadata information is copied to the \$Repository \\$Metadata folder.

Open the \$Files folder. All files will be listed with a unique identifier that corresponds to the metadata referenced in the \$Metadata folder. Opening the file in the \$Metadata folder in Notepad will provide the following metadata values: FolderPath, EntryID, SourceID, LawPath, EMailClient, ConversationIndex, ThreadID, ItemGUID, ReprocessedCount, ParentID, SourceFolderPath, SourceFileName, and FileName. The following example has two Windows Explorer windows (\$Files and \$Metadata) and a \$Metadata file open in Notepad.

In version 6.17.96+ you can add the <u>password</u> to ed loader before reprocessing the office files, 7zip, and pkzip files.

\$Metadata folder and files are for reference only. Making changes to the \$Metadata files will affect the ability to reprocess the records with errors.

p ▶ Shared Documents and files ▶ Desktop Law	/ Cases 🕨 Lisa Was H	Here ▶ \$Rep	ository 🕨 \$Files	<b>-</b> ↓		
Share with 🔻 Print Burn New f	older			8==		
Name	Date mo	dified	Туре	Size		
1218ADA3_C05E_41C9_B564_63AADF17464A.pd	f 5/31/201	7 10:59 AM	Adobe Acrobat D	37 KB		
528CBA9_A829_4EC3_A043_982ADC309B66.pd	lf 6/12/201	4 3:13 PM	Adobe Acrobat D	390 KB		
E0858B9A_39A8_4757_9197_4DBE5BA9E42B.doo	x 2/14/201	7 10:53 AM	Microsoft Word D	20 KB		
Thumbs.db	5/31/201	7 11:00 AM	Data Base File	13 KB		
Shared Documents and files   Desktop Law Case	es 🕨 Lisa Was Here	<ul> <li>\$Reposite</li> </ul>	ory 🕨 \$MetaData	<b>-</b>		
Burn New folder						
Name	Date modified	Туре	Size			
21218ADA3_C05E_41C9_B564_63AADF1746	5/24/2017 5:06 PM	MTD File	1	KB		
E528CBA9_A829_4EC3_A043_982ADC309	5/24/2017 5:06 PM	MTD File	1	KB		
E0858B9A_39A8_4757_9197_4DBE5BA9E42	5/24/2017 5:06 PM	MTD File	1	КВ		
1218ADA3_C05E_41C9_B564_63AADF17464A.	mtd - Notepad					
File Edit Format View Help						
[ErrorDocDetails] FolderPath=C:\Users\edgewoja\Desk EntryID= SourceID=5 LawPath=PDF\Desktop\Desktop EMailClient= ConversationIndex= ThreadID= ItemGUID=8D4F13AC-7B5E-45BF-A7B8- ReprocessedCount=1 FileName=Sweet Potato Casserole.p	8E82CC294F4B					
The \$Metadata file can be used to locate the FileName that matches the corresponding						

unique identifier in the \$Files folder.

1. Open the record in \$Files using the correct password.

ADOBE' ACROBAT' X PRO	Adabe
Open a Recent File	Getting Started
	tected. Please enter a Document Open OK Cancel
🔁 Open	

- 2. Change the security settings disabling the need for a password.
- 3. Then save the record into the same \$Files folder and with the original unique identifier as the filename.

#### Reprocessing records with other errors

For records that fail due to processing errors or metadata extraction errors, confirm that your Windows login has read/write permission to the case folder and all subfolders and files, %Temp%, and %appdata%. Ensure that there isn't another program that is trying to access your source files during import.

If metadata extraction errors caused a record not to import then you may want to turn off metadata options during import and process post import by <u>Extracting</u> <u>Custom Metadata</u>

#### After resolving errors that generated failed items during the original import

#### Select Failed Items in LAW Electronic Discovery Loader.

Change any import settings that need to be altered and select **Start**.

The Failed Items that have been resolved will now be imported into the database in the corresponding folder with the rest of the files from that source.

If the item is re-processed successfully, then the backed up file and its metadata info will be deleted from the "\$Repository" folder.

If the item was an attachment, then the Parent document id will be added to the ErrorMsg field. This can be used to manually attach the item back to its parent.

Re-processed items will be in the corresponding source folder however these records are located at the end of that folder. These records can be moved and or attached to parent records as needed. <u>Moving Documents and Pages</u> <u>Working with Attachments</u>

#### **Querying for reprocessed records in your database**

You can determine which items were re-processed using the **Database Query Builder**.

- 1. Select Search Records on the LAW toolbar.
- 2. In the **Database Query Builder** select **\_DocCat** in the **Field Name** dropdown.
- 3. On the far right of the field name, click the ellipses button. The **Custom Value Selection** dialog displays.

Join: Field Name:		Operator:	Value (Attributes):	
	Custom Value Selection [_DocCat]	• Equais	•	(+ Add Condition
AND V Eul text s doud or nine	Altered Electronic Document Archive Archive Item Attach Parent Attachment Decrypted Enocyted Enocyted Fortypted Fortypted Fortypted Nall Item Marked for exclude based on fletype NIST Item Partial exclusion Reprocessed Item			+) Insert Before (- Remove -) Remove All X Dictionary Options Load Terms Full Text Reports Tag Text Hits
Return all Page IDs wi				ichment groups
end Results To: Grid Vie				E <u>x</u> ecute <u>C</u> ance
clauses currently defined				

- 4. Select **Reprocessed Item**. Click **Accept** to close the **Custom Value Selection**.
- 5. Click **Execute** in the **Database Query Builder**. Search Results display.

- 6. Select **Field List** from the **View** menu, and make sure you have selected **\_DocCat** so that it will display.
- 7. The **\_DocCat** field will show the following values for reprocessed documents:
  - 131073 for successfully reprocessed documents
  - 131201 for reprocessed documents that still have errors
- Re-processed items will be in the corresponding source folder however these records are located at the end of that folder. These records can be moved and or attached to parent records as needed. <u>Moving Documents and Pages</u> <u>Working with</u> <u>Attachments</u>

#### Reviewing Sessions

Reviewing the session after import is an important measure you should take to ensure the all aspects of the import operation completed satisfactorily.

During the import of electronic discovery, ED Loader flags any record whose file import triggered errors or warnings. It is considered a best practice to review all errors and warnings after each import session and then to respond accordingly.

After import, the quality control process should involve the following basic steps:

- 1. **Review the Session Log** by opening the Session Viewer. For more information on the Session Viewer, see: <u>Session Browser and Session Viewer</u>.
  - Look for records listed in the **Incomplete** or **Commit** tabs.
  - If records are listed in either of these tabs, they were not imported.
  - Records appearing in the **Incomplete** tab might be able to be resolved by resuming the ED Loader session. If this does not work, try reprocessing the files.
  - Records appearing in the **Commit** tabs will need to be re-processed.
  - The **Insert** feature may be used if maintaining order is necessary.
- 2. **Review the ErrorMsg field** in the CloudNine<sup>™</sup> LAW case to identify errors and determine what action will take place to resolve the error.
- 3. **Review the TextXStatus field** to identify records that did not have text extracted. Extraction of text may be prevented either by an error or by a configuration setting that excludes a file type. These files may need to be converted to TIFF to obtain printed text or OCR text.

After an Electronic Discovery Loader (ED Loader) session, you can open the Session Browser to review an overview of the import session. From the Session Browser, you can open the Session Viewer that opens the log containing a detailed report of the session. The log provides details such as warnings and any errors that occurred during the import process.

#### To view an import session summary (Session Browser)

Start the Session Browser in either one of the following ways:

• After an import operation, in the results dialog box, click **View Logs**.

Or

• From LAW Electronic Discovery Loader, on the File menu, click Open Session.

Or

• On the main LAW dialog, on the **Tools** menu, click **Session Browser**.

⊡ <b>Today (2)</b> Session 0002 on DeltaZ4ED		
Session 0001 on DeltaZ4ED	Label: Distributed:	N/A N/A
-Older (0)	Created:	N/A
	Elapsed Time:	N/A
	Directory:	N/A
	Creator:	N/A
	Workstation:	N/A
	Status:	N/A
	Processed:	N/A
	Records Written: Size:	N/A
	Errors:	N/A N/A
	Excluded:	N/A
	Partially Excluded:	
Show all sessions (Only sessions initialize	l d from this station are resumable)	
Resume View Session	a more and oracion and resultable)	Done

In the **Session Browser**, select the Session on the left to display. The following items are available for review:

- Label. The session label.
- **Distributed**. Whether the import was distributed or not. For more information on distributed imports, see: <u>Distributed ED Loader</u>.
- Created. Date and time the session was created.
- **Elapsed Time**. The time taken to process items by that specific machine in that session. If the session was a standalone session then this value should be equal

to the total session time. If the session is distributed in nature then this value will represent the total duration for which that specific machine was actively importing documents in the distributed session and this value can be lesser than the actual session duration.

- **Directory**. The directory where the import log is located.
- Creator. The user name associated with the user who created the session.
- Workstation. The workstation name where the session was created.
- Status. The status of the session; whether it completed or not.
- **Processed**. The number of documents processed.
- **Records Written**. The number of case records written.
- Size. The size of all files combined that were processed.
- **Errors**. The number of errors that occurred during the session.
- **Excluded**. The number of files that were excluded from processing.
- **Partially Excluded**. The number of files that were partially excluded from the session.

To learn more about the details concerning these items, open the Session Viewer for this session. See the next section of this topic for more information.

Why does the Session Browser show different information than the Turbo Import Report?

Turbo Import Case, the Session Viewer shows the total of all data that was imported in the "session". It's possible to have more than one Import Set being imported during a session, as more than one user could have started an import or users may have reprocessed errors from Import Sets that were previously imported; those would be included in the current session.

For post-processing scenarios where you require reporting (after importing, reprocessing of errors), the Turbo Import report will allow you to report that information as a "snapshot" of the current state of the Import Set(s).

## To view import session details (Session Viewer)

From the **Session Browser**, select the appropriate session on the left and click **View Session**. The **Session Viewer** opens.

File View				
2 🛃 🗷 🥲				
essions	Overview Settings Sources (4) Incom	plete (0) A	All (31) Warnings (2) Processing Errors (0) Commit Errors (0) Duplicates (0) NIST Items (0) FileType Exclusions (0) Conditional Exclusions (1) Suspect (3)	
Today (2)				
<ul> <li>Session 0002 on DeltaZ4ED</li> </ul>	Drag a column header here to group by th			
Session 0001 on DeltaZ4ED	Item	Value	Description	
Yesterday (0)	Inventoried	20	Items discovered and enqueued for processing.	
- Older (0)	- Processed (From Inventory)	20	[All Tab] Items successfully processed by EdLoader during the session.	
	- Unprocessed (From Inventory)	0	[Incomplete Tab] Items that were not processed in this session, typically due to a cancellation or abort condition.	
	Total Yield (Records written to LAW)	30	Items written to LAW during the session.	
	Errors	0	Total number of error (Processing Errors + Write Errors) that occured in the session.	
	- Processing Errors	0	(Processing Errors Tab) Errors that occured during processing items.	
	- Commit Errors	0	[Commit Errors Tab] Errors that occured attempting to commit the processed item to the LAW database.	
	Warnings	2	[Warnings Tab] Warnings that occured during processing and or committ/write operations.	
	[Filter] NIST(NSRL)	0	[NIST Items Tab] Files whose hashes were present in the configured NIST (NSRL) filter.	
	[Filter] Duplicates	0	[Duplicates Tab] Files determined to be a duplicates of documents currently residing in LAW.	
ields	[Filter] File Types	0	[FileType Exclusions Tab] Files that were filtered based on the configuration in the 'File Type Manager'.	
ieids Vitem	Suspect Extensions	3	[Suspect Tab] Files whose extension does not match the list of available extensions in the 'File Type Manager'	
⊴ Description				
	Record: I 1 of 12 F	¢		

3. Select the tabs in the **Session Viewer** dialog box to access information about the currently selected session.

The number of records listed in each tab is shown beside the tab name in parentheses. The tabs in the **Session Viewer** dialog box are described in the following table:

Use this tab	When you want to review
Overview	Session totals, such as the number of items processed, errors, and filtered items.
Settings	ED Loader options.
	Edit settings from the EDLoader.case.config.ini (located in root LAW case folder), and the state of those settings during the selected session. The VisibleInUi field will indicate if the setting is visible in the ED Loader interface, or if it only exists in the EDLoader.case.config.ini. The SettingKey displays the name of the setting in the configuration file, while the UnderlyingValue field displays the value of the setting in the configuration file.
Sources	Sources that were included in the session and any error messages about them.
Incomplete	Records that did not import completely.
All	All of the records that were imported during the current session.
Warnings	Warning messages generated during import.
-	Records that generated an processing error.
Errors	Processing errors result typically when a file cannot be opened, as for example, might be the case when a file is password protected.

Use this tab	When you want to review
	Typically, a document that generates a processing error is still imported despite the error, and if so, the error message will be logged to the ErrorMsg field for affected records.
Commit Errors	Documents that failed to import because of a disk write error. Commit errors can result for example, when a disk is full or nearly full, or if there was an error in the connection to the file source during the import. Typically, the import failed for any document listed in this tab.
Duplicates	Records that were flagged as duplicates during the import process. These records may or may not have been imported, depending on the selected action in the <u>Deduplication</u> settings.
NIST Exclusions	Records that were filtered based on the NIST/NSRL database. These records are not written to the LAW case database.
FileType Exclusions	Records that were filtered based on the Include or Exclude list. The documents may or may not have been imported, depending on the selected action in the <u>File Types</u> settings.
Conditional Exclusions	Records that were excluded based on the <u>Exclusions</u> settings. These documents are not written to the LAW database.
Suspect	Records that were determined to be suspect files based on the file extension. LAW validates all files to ensure the original file extension reflects the actual file type. An example of a suspect file would be a Word .doc file that was renamed and given a .pdf extension. If the <b>Auto Assign Suspect Extensions</b> option is enabled in this situation, the .dox extension would be assigned to the DocExt field, and the .pdf extension would be assigned to the OrigExt field. See <u>File Types</u> for more information.

## To export session data

The data contained within the tabs in the Session Viewer may be exported to a separate file or to an Excel spreadsheet.

# To save the currently selected tab

- 1. Start the Session Viewer. See the section at the start of this topic for instructions.
- 2. On the File menu, click Save As.
- 3. Select a file type:
  - CSV for comma-separated value

- TXT for text file
- 4. Select a path to save the file and a file name.
- 5. Click Save.
- 6. Click **Yes** at the prompt to view the output file or click **No** to view the file later.

#### To save all tabs in the Session Viewer to file

- 1. Start the Session Viewer. See the section at the start of this topic for instructions.
- 2. On the File menu, click Export To Excel.
- 3. Select a location and file name for the output file and then click **Save**.

Each tab will appear in its own worksheet in the output Excel file.

#### Other session review options

Other session review options are listed as follows:

• Session List

This area of the Session Viewer provides a list of sessions that were initialized on the current machine in the currently selected LAW case. The sessions will be named according to the user-defined Session Labels (specified in the ED Loader prior to import).

# • Fields

The Fields section lists the fields available for display for the currently selected tab.

## • Item Properties

The Item Properties panel displays metadata and other information specific to the selected record. The properties for attachment records will contain information about the parent record as well.

After documents are loaded via ED Loader, you can use the ED Reports feature to generate reports of the types of files imported, and whether or not each file type is supported.

### To create summary reports

- 1. Open a grid by doing one of the following:
  - On the Tools menu, click Display All Records.

Or

• Click the globe icon on the main toolbar.

Or

• Run a query.

Or

- Select a folder and then click Grid View or Grid View (Recurse).
- 2. With a standalone grid open, on the **Tools** menu, click **ED Reports**. The **Report Preview** dialog box appears.

Report Preview	
File Format	
Selected Report: <	Select a report>
Select a repo	ort below or from the list above.
- Supported Files I	Ву Туре
- Unsupported File	es By Type
- Supported Files I	By Type (Condensed)
- Unsupported File	es By Type (Condensed)
*The term 'Supported	d' refers to records that have an application assigned to them in the [SourceApp] field.
Apply watermark t	to reports
<no se<="" td="" watermark=""><td>elected&gt;</td></no>	elected>

- 3. Select an option as needed:
  - To number the file path entries for either the **Supported Files By Type** report or the **Unsupported Files by Type Report**, on the **Format** menu, select **File Numbering**.
  - To apply a watermark to the report, select **Apply watermark to reports** and then browse to an image file.
- 4. Select a report from the list or choose a report from the **Selected Report** list. A preview of the report appears in the **Report Preview** dialog box.

Report Preview	×
File Format	
Selected Report: Supported Files By Type	
к∢ 1/1 → я <b>Q → <i>Д</i></b>	
Supported Files By Type	
<no description=""> - Sfile(s) Spage(s)</no>	
-No Flanam s Specified- -No Flanam s Specified- -No Flanam s Specified- 1	
TotalFiles: 3 TotalED Pages: 3	
I dati ED Pages; 3	
Prinad on 8/90010 502:51 PM Page 1 of 1	
	//

5. In the **Report Preview** dialog box you may select from among the following options:

When you want to	Do this
Save the report as a PDF or HTM file.	1. On the File menu, click Save or Save As.
	<ol> <li>Name the file, select either PDF or HTM, and then click Save.</li> </ol>
Print the report.	• On the File menu, click Print

When you want to	Do this
	Or
	Click the printer icon.
Apply file numbering to the report.	On the <b>Format</b> menu, select <b>File</b> Numbering.
Select a different report to preview.	• In the <b>Selected Report</b> list, select a different report.
Browse pages of the report.	• Select the page browsing controls.
Change the view of the preview page.	<ul> <li>Click the magnifying glass icon and then select a viewing option.</li> </ul>

#### Report types

The reports that you may choose from are described as follows:

- **Supported Files by Type**: Lists all supported files loaded via ED Loader, grouped by file type. The term 'supported' refers to records that have an application assigned in the SourceApp field. The report contains paths to each file, a total count of supported files, and a count of supported files for each file type. If the EDPages field contains data, these values will also be included in the report.
- ✓ The EDPages field contains data when the Extract ED Pages Counts or the E-Print process is run on the documents.
- Unsupported Files by Type: Lists all unsupported files loaded via ED Loader, grouped by file type. The term 'unsupported' refers to records that do NOT have an application assigned in the SourceApp field (<No Source Specified>). The report contains paths to each file, a total count of unsupported files, and a count of unsupported files for each file type. If the EDPages field contains data these values will also be included in the report.
- **Supported Files by Type (Condensed)**: This report is similar to the Supported Files by Type report, but does not include paths/filenames to each individual file. The report contains a total count of supported files and a count of supported files for each file type. If the EDPages field contains data, these values will also be included in the report.
- Unsupported Files by Type (Condensed): This report is similar to the Unsupported Files by Type report, but does not include paths/filenames to each individual file. The report contains a total count of unsupported files and a count of unsupported files for each file type. If the EDPages field contains data, these values will also be included in the report.

## Importing E-Mail Files

In addition to other types of electronic documents, you can use the ED Loader utility to import files containing e-mail and related items. Examples of items related to e-mail include calendar items, meetings notes, and others. The types of items provided by each program vary.

ED Loader recognizes the following file formats:

- Lotus Notes databases
- Mbox format mail files
- Outlook data files
- Outlook Express Saved Mail Messages
- ✓ CloudNine<sup>™</sup> Explore can generate MSG files or HTM to extracted from passwordprotected PST files and from OST files, and send these to ED Loader. For more information on CloudNine<sup>™</sup> Explore, see CloudNine<sup>™</sup> Explore Web documentation.
- Microsoft Outlook 2010 64-bit is not currently supported when using ED Loader.

## To import e-mail and related items

1. On the **File** menu, click **Import** and then click **Electronic Discovery**.

The LAW Electronic Discovery Loader utility (ED Loader) opens.

🔍 LAW Electronic Discovery Loader			×
<u>File</u> <u>E</u> dit <u>V</u> iew <u>T</u> ools			
DeltaZ4ED			
Sources Settings			
Default Target Folder:		Session Label:	
<case root=""></case>		Session [&SESSION_ID] on [&CASENAME]	
Default Custodian:		DocID Seed: (max len. 45)	
<none></none>	✓ …	00000011	
Source Queue		Add:	
Source Name Custodian	Target Folder	Mail Store	
		Outlook Fldr	r <b>.</b>
		Folder(s)	
		File(s)	
		File List	
		Failed Items	S
		View Details	s
		Remove:	
<		> Remove Iter	m
Reset All Reset Names Reset Cstdn	ns. Reset Folders	Show source paths Clear All	
Version: 7.4.49	< Ba	ack Next > Start Cancel	

2. Identify source files to import as follows:

Format	Source applicati on	Extension	Import option
Lotus Notes databases	Lotus Notes	.nsf	Mail Store
Mbox format mail file	Eudora, Netscape, etc.	.mbox .msf	File(s) or File List
Outlook data file	Outlook	.pst .ost	Mail Store
Outlook folder	Outlook	Select folders directly from an Outlook-style tree control.	Outlook Fldr.

Format	Source applicati on		Import option
Outlook Express Saved Mail Message	Outlook Express	.dbx .eml	File(s) or File List

- 3. Specify a **session label** and a **DocID Seed** as needed.
- 4. Optionally, click **Next** to specify other import options for Outlook items.
- 5. Click **Start**.

When the import completes, you are provided with a message stating the number of items imported, and then you are given the option to view the log file generated for the import action.

#### Mbox import details

Note the following when using ED Loader to import MBox mail stores:

- When you import Mbox email stores, ED Loader extracts individual messages from within the mail store and processes each message as a separate e-mail item.
- ED Loader creates log entries for e-mail metadata, and extracts all attachments.
- ED Loader saves each message in the mail store as an individual file. These files are saved to the working directory of ED Loader.
- There are many e-mail clients that use the Mbox format, for example: Alpine, Claws Mail, Cone, Eudora, Gnus, Kmail, Mozilla Mail & Newsgroups, Mozilla Thunderbird, Mulberry, Mutt, Netscape Messenger, Netscape Messenger 9, Novell Evolution, Opera Mail, Pine, Pocomail, SeaMonkey, and The Bat!.
- Mbox files can have the following file IDs:
  - 862 Berkeley UNIX Mailbox Format
  - 3563 Netscape E-Mail message
  - 863 Eudora MBOX files
  - 3050 MBX Mail Folder

## Embedded mail store import details

Embedded mail store files can be imported from CloudNine<sup>™</sup> Explore using ED Loader.

• When an embedded mail store is queued for import into ED Loader, the target folder for the file is the \_EmbeddedStores folder. The value in the parenthesis, (), refers to the ExploreId or mail store.

For example: \_EmbeddedStores\PSTinZip.pst (12345)

• The embedded mail store file name has a 25 character limit. If the mail store name exceeds 25 characters, the embedded mail store file name is truncated and (...) is displayed after the first 20 characters of the mail store file name.

For example: If the mail store file name is **ThisIsAVeryVeryVeryVeryVeryVeryVeryVeryIongFilename.pst**, the target folder and truncated file name will be **\_EmbeddedStores\ThisIsAVeryVeryVeryVeryV(...)** (123456)

- All supported mail store types (PST, OST, NSF, MBX, and DBX) are put into their EDLoader source when they are embedded.
- The default source label for mail stores includes the mail store file extensions for embedded PST, OST, NSF, MBX, and DBX files.
- ☑ The default source label for mail stores also includes the mail store file extensions for non-embedded PST, OST, and NSF files.
- Files imported into LAW from the embedded mail store file will have the same file name as if the mail store file was imported directly into ED Loader.
- The full path to the embedded mail store file and its contents is store in the SourceFile field in LAW for the lifetime of the LAW case.

# Lotus Notes item types

In addition to e-mail you can use ED Loader to import other types of Lotus Notes items. Item types include:

- All Day Event
- Anniversary
- Appointment
- Meeting
- Memo
- Notice
- Reminder
- Task (Single Task)

The output file is in HTML format. The output begins with a text header that identifies the extracted text as belonging to a meeting item.

To import Lotus Notes items see the section entitled  $\underline{\text{To import e-mail and related items}}$  in this topic.

#### Passing an e-mail thread to a review application

You can pass email threads from LAW to review application by configuring your review application to handle the ThreadID field.

ED-enabled cases created using LAW 6.0 and later, contain the ThreadID field. This field tracks e-mail threads from Outlook stores and from loose MSG files.

Note the following about the ThreadID field:

- It is populated with the leftmost 22 characters of ConversationIndex field.
- Attachments to e-mails receiving a value for the ThreadID are populated with the ThreadID of the corresponding parent e-mail.
- Opening an existing ED-enabled case will add the ThreadID field to the case.
- ThreadID is not visible by default on the main form or on grids.
- The ThreadID field is not indexed.
- When you use ED Loader to import an e-mail that has one or more attachments, the ThreadID of attachments are assigned to the same ThreadID as the parent e-mail. Keeping the ThreadID the same between parents and their attachments can help to find and filter messages that might be related by business logic but not necessarily by indexed keywords found in message subject or content.
- To enable this threading feature, in ED Loader, on the Text Extraction settings, select Enable Archive Extraction. For more information on enabling text extraction, see: <u>Text Extraction</u>.

#### Importing Instant Messages (IM)

You can use the ED Loader utility to extract text produced by instant messaging (IM) clients. ED Loader processes the following IM formats:

- Yahoo IM
- MSN Messenger
- AOL IM

Extracted text is saved to an HTML file. The HTML file contains the following information about messages:

- Date and time sent
- From
- To
- Message

Additional details specific to the Yahoo and AOL IM formats are provided in the following table:

IM Forma t	Notes
Yahoo IM	The archive file name should be in the format: <b>date_personid.dat</b> . For example, 20101103-MikeP.dat. The sender name is taken from the file name.
	If the selected archive file is not located within the directory installed by Yahoo, then the name that appears in the <b>To</b> field is displayed as " <i>Remote User</i> ."
	Messages that were generated by Yahoo messenger are not displayed.
	In the case of conference messaging, the To list will contain the names of the participants who exchanged messages with the group.
	File transfer details are not available in the archive file.
AOL (AIM7)	The archive file for AIM does not provide user sign in or sign out details, or file transfer details.
	In the case of conference messaging, the <b>To</b> list will contain the names of the participants who exchanged messages with the group.

## Inserting Attachments After Import

If Electronic Discovery Loader (ED Loader) was unable to extract embedded or attached files from a compound document, it still might be possible to get the attachment from the parent file and then insert it as an attachment into the case. Note the following considerations before you start the process of inserting attachments after import:

- It might not be worth the trouble to import document attachments. For example, if the embedded file is a logo, or some other image that is not relevant to the case, it may not be worth the trouble of taking corrective action on the record. If the embedded file contains possibly relevant data, you should consider fixing the extraction error.
- The most common fix for failed extraction is to manually save the attachment, and then insert it into the appropriate location. It is important to note that manually saving the embedded file will alter the metadata of the file.

#### **<u>To insert documents as attachments</u>**

- 1. Review the import log ErrMsg field to locate any errors with importing embedded compound documents.
- 2. Use the source application of the compound document to open the document and save any embedded or attached files that were not imported.

- Saving the embedded file will alter its metadata.
- 3. In the main form, select the compound document parent file.
- 4. On the Edit menu, click Insert.
- Click E-Document Attachment(s) and then click either Before Current or After Current. The LAW Electronic Discovery dialog box (ED Loader) opens in insert mode.

LAW Electronic Discovery Loade	r			×
File Edit View Tools				
DeltaZ4ED				
	tems will be written to the	e specified position in	the target folder only.	Details
Sources Settings				
Default Target Folder:			Session Label:	
E/E			Session [&SESSION_ID] on [&CASEN	AME]
Default Custodian:			DocID Seed: (max len. 45)	
<none></none>		×	00004174	
Source Queue				Add:
Source Name	Custodian	Target Folder		Mail Store
				Outlook Fldr.
				Folder(s)
				File(s)
				File List
				Failed Items
				View Details
				Remove:
<			>	Remove Item
Reset All Reset Names	Reset Cstdns. Reset F	olders	Show source paths	Clear All
Version: 7.4.49		< Bac	k Next > Start	Cancel

6. Add the embedded file to the **Source Queue**; click one of the buttons in the **Add** area, select the attachment files, and then click **Start**. Selected files are inserted as attachments to the selected document.

For more information on adding or removing sources from ED Loader, see <u>Adding/Removing Sources</u>.

# Extracting Missing Text After Import

When you import electronic documents, even if you select the option to extract text during the import, you may still experience errors importing text for supported documents. Missing text after import is most common for these kinds of files:

- PDF files where the format is image-only and does not contain embedded text.
- JPEGs or other image files that might contain text, but only as part of the image.
- Encrypted or locked files.

After you import, the first step is to identify files where the text extraction process failed. Depending on the type of error encountered, you can take action to extract the missing text.

## To find missing text by grouping

If a file type is supported for text extraction, but text extraction failed CloudNine<sup>™</sup> LAW generates an error message. The error message appears in the **ErrorMsg** field and the **TextXStatus** field is marked with the value **E**. You can isolate text extraction errors using the grouping or searching functions of a grid display.

# To find errors by grouping in a grid

- 1. Open either grid view.
  - If the **TextXStatus** field is not a displayed column, right-click on a column header to open the **Field List** dialog, select **TextXStatus** and then close the **Field List** dialog. The **TextXStatus** now appears.
- 2. In the grid, group by the **TextXStatus** field to see if any **E** values are present.
- 3. Expand the **E** group, then right-click on an **E** value in the **TextXStatus** field. The **Filter** options will appear.
- 4. Click **Choose Filter** by **Selection**. Only those records containing an E value in the **TextXStatus** field will be returned.

## **<u>To find missing text by searching</u>**

With larger cases, locating files with missing text by performing a search may be quicker than using the grouping method.

1. In the main user interface on the **Tools** menu, click **Search Records**.

The Database Query Builder appears.

- 2. Add a condition by choosing the following:
  - Field Name = TextXStatus

- **Operator =** Equal
- Value = E

### 3. Click **<Add Condition>**.

The condition will appear in the clause window.

#### 4. Click **<Execute>**.

The search is performed returning only the records containing a **TextXStatus** value of an **E**.

#### To extract missing text

You may still be able to obtain text files for records where text extraction failed during import. The general process for addressing text extraction errors follows these basic steps:

- Find files where the **TextXStatus** is either **N** or **E**. **TextXStatus** of **N** indicates the file could not have text extracted based on its file type. **TextXStatus** of **E** indicates the file type is supported but text extraction resulted in an error.
- 2. Fix these files as necessary based on the reason text could not be extracted:
  - For files that are locked or encrypted, get the passwords, open files in native applications, and then perform import again with text extraction.
  - For files not locked or encrypted, use a batch process to convert them to TIFF, and extract text during TIFF conversion. Prior to conversion, in the TIFF conversion settings, enable the **Save text with images** option. The **TextPStatus** will indicate if text was printed to file at the time of TIFF conversion.
  - For any other graphics or PDF files where text is visible but otherwise inaccessible, perform optical character recognition (OCR).

#### Cancelling and Resuming Sessions

The Electronic Discovery (ED) Loader may be easily canceled during an import and then restarted at a later time.

#### To cancel a session

- When an ED Loader import session is running, click **Cancel** and then follow the prompts to fully cancel the session.
- If you cancel an ED Loader session when the **Progress** dialog box is open, you will

see the **Confirm Cancellation** dialog box.

Confirm Cancellation	×
Which kind of cancel command would you like to Safe Cancel (Delayed, Recommended)	issue?
This type of cancel will stop processing when the current item is complete. If this session is resumed, there should not be any incomplete items.	Safe Cancel
Normal Cancel (Immediate)	
This type of cancel will attempt to stop immediately which may result in incomplete items.	Normal Cancel
No thanks, I would like to continue	Continue

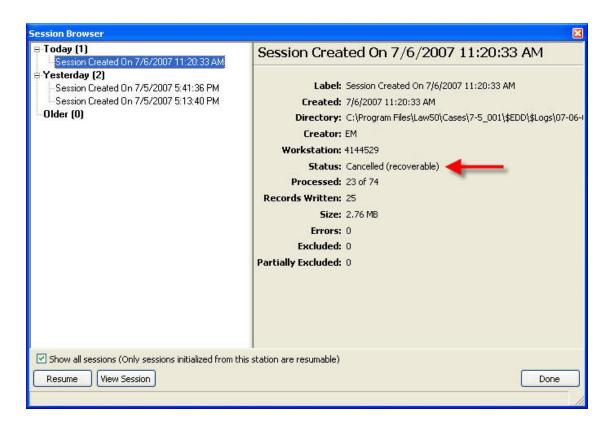
Click one of the following:

- Safe Cancel. (Recommended) To complete the current item and then stop.
- **Normal Cancel**. To stop the session immediately. This option may result in incomplete items.
- **Continue**. To continue processing the current session.

## To resume a session

You can restart any session that was previously started on the current workstation and then canceled.

- 1. On the **File** menu, click **Import**, and then click **Electronic Discovery**.
- 2. The CloudNine<sup>™</sup> LAW Electronic Discovery Loader starts.
- 3. On the **File** menu, click **Sessions**. The **Session Browser** dialog box opens. Incomplete sessions will show as **Canceled recoverable** in the Status message.



- 4. Select an uncompleted session and then click **Resume**.
- 5. The incomplete session restarts.
- ✓ Note the following facts when restarting import sessions:
  - Only sessions initialized from the current workstation may be resumed.
  - Sessions that end unexpectedly due to some sort of crash may generate a restart prompt when the ED Loader is re-launched from the same machine in the same LAW case.
  - If the connection to a SQL Server is lost during the ED Loader import process, the ED Loader will display a notification on the Progress dialog just above the total progress bar. During this time, the Loader will attempt to reconnect to the database and continue processing. The import process can be stopped at this time by clicking the **Cancel** button.

## Distributed ED Loader

An ED Loader session may be configured to allow multiple computers to participate in the import session. You start the distributed session in ED Loader on one computer with LAW running on it. When you configure the import session, you specify sources for import. All

sources must be accessible by all other computers that will participate in the distributed session. Sources can be held on a network share for this purpose. After you specify sources to process, you continue to configure your import session by enabling the option to allow distributed processing. At that time, you also select other computers to participate in the import session.

When importing e-discovery using multiple LAW workstations with ED Loader, the workstations importing e-discovery should not import to the same target folder at the same time.

We recommend having each LAW workstation participating in the e-discovery import use a different target folder for sources. Not following this procedure could cause issues with the order of documents per folder and retaining parent/child relationships. The target folders for an ED Loader import are defined in the Target Folder column on the Sources tab in ED Loader.

When the distributed ED Loader session is running, you can use the LAW Management Console (LMC) to monitor the progress of the session, view the status of individual computers, and perform other session management tasks. For more information on using the LMC see <u>LMC Overview</u>.

♀ When performing distributed processes, it is best practice to have all machines participating in the distributed processes running the same version of CloudNine™ LAW. Running distributed processes on machines with different versions of LAW may cause unexpected results.

## Starting a distributed ED Loader session

- 1. Place sources for import on a network share that is visible to all computers participating in the import session. Be sure all computers have full access privileges to the share.
- 2. On the **File** menu, click **Import**, and then click **Electronic Discovery**. The LAW Electronic Discovery Loader utility (ED Loader) opens.

▲ LAW Electronic Discovery L <u>File</u> <u>E</u> dit <u>V</u> iew <u>T</u> ools	oader			>
DeltaZ4ED				
Sources Settings				
Settings				
Default Target Folder:			Session Label:	
<case root=""></case>			Session [&SESSION_ID] on [&CAS	ENAME]
Default Custodian:			DocID Seed: (max len. 45)	
<none></none>		✓ …	00000011	
Source Queue				Add:
Source Name	Custodian	Target Folder		Mail Store
				Outlook Fldr.
				Folder(s)
				File(s)
				File List
				Failed Items
				View Details
				Remove:
<				> Remove Item
Reset All Reset 1	Names Reset Cstdns. Reset	Folders	Show source path	Clear All
Version: 7.4.49		< Bac	k Next > Sta	rt Cancel

- 3. Add sources as needed. For more information on adding sources see <u>Specifying</u> <u>Sources</u>.
- When importing e-discovery using multiple LAW workstations with ED Loader, the workstations importing e-discovery should not import to the same target folder at the same time.

We recommend having each LAW workstation participating in the e-discovery import use a different target folder for sources. Not following this procedure could cause issues with the order of documents per folder and retaining parent/child relationships. The target folders for an ED Loader import are defined in the Target Folder column on the Sources tab in ED Loader.

4. Click the **General** tab and then, in the **Categories** section, click **General**.

🔍 LAW Electronic Discovery L	oader X
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools	
DeltaZ4ED	
Sources Settings	
Categories	General
Archives Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Source Selection
Lock Settings	Type: OPEN (Any online dient will join)
Apply Settings	
Set As Default	
Version: 7.4.49	< Back Next > Start Cancel

- 5. Select Enable Distributed Processing.
- 6. Click Edit. The Create/Modify Job Invitation dialog box appears.

🍓 Create/Modify Job Invitation 🛛 🕹
View
Invitation Type
<ul> <li>Closed (No clients will join the job unless the invitation is edited)</li> <li>Open (All available clients are invited)</li> </ul>
Restricted (Available clients selected below will be invited)
Limit no. of stations for the job (0 is unlimited)
Scheduling
Do not start job until after: 4 /16/2020 🗾 5 :23:47 PM 🚊
Clients (For use with 'Restricted' invitation type)
Server: Accept Cancel

- 7. Select an invitation type.
  - **Closed.** (Default) None of the LMC instances will be able to auto-join LAW to the shared batch. LAW workstations can still be joined to the job manually.
  - **Open.** All LMC instances automatically join LAW to the shared batch.
  - **Restricted.** Only selected LMC instances will automatically join the process.

If you choose **Restricted**, select computers that can participate in the batch process from among available computers in the **Clients** area of the dialog box.

8. In the **Limit no. of stations for the job** field, enter the maximum number of workstations that can process data for the import job at any given time.

The **Limit no. of stations for the job** field defaults to **0**. When the **Limit no. of stations for the job** field is set to **0**, all available workstations will process data for the job.

- 9. Configure a scheduling restriction as needed. This option prevents the job from starting until after the date and time that you specify.
- 10. Click Accept.

After the shared batch is initialized on a machine, the job appears below the **Jobs** node in the LMC, and other LAW workstations can join the job.

- 11. Configure other import session settings as needed. For more information on configuring an import session see <u>Configuring Import Settings</u>.
- 12. Click Start.
- 13. In the **Confirm Settings** dialog box, review the import settings.
- 14. Click **OK**.

#### Implementation details

When you implement distributed electronic discovery the following details apply:

- Post Import Actions. Post-import actions are disabled for distributed ED Loader sessions.
- Session Label and DocID Prefix. The session label and DocId seed reflect the distributed ED Loader session. The session label defaults to Session [&SESSION\_ID] on [@CASENAME]. The DocID value is blank by default. If you leave it blank and then run run the distributed ED Loader session the numerical values are automatically assigned using the following scheme: SessionNumber.DocumentNumber.ItemNumber.

Session Label:				
Session [&SESSION_ID] on [&CASENAME]				
DocID Prefix: (max len. 20)				

- **Mapped drives versus UNC paths**. All computers enrolled in a distributed ED Loader session must connect to the source file folder using the same mapped drive letter or the same UNC path. While there can be a performance gain when you use a mapped drive, using a UNC path is simpler to setup and less prone to error.
- **E-mail store processing**. When processing e-mail stores, such as PST files and NSF files, only one client can process any single e-mail store.
- Folder size and processing time per client. Only one client can process the items in a single folder at a time. Relative differences in folder sizes are reflected in time required for an individual client to process folders. A client that is processing a folder with a large volume of data will spend more time than a client that is processing a relatively smaller volume of data.

#### Determining the computer that ran the import

You can review individual documents to determine which workstation executed the import.

- 1. From the main form in CloudNine<sup>™</sup> LAW, on the **Index** menu, click **Modify Fields**.
- 2. Scroll to **ImportStation**.
- 3. Select Visible.
- 4. Click **Save As**, name the profile, and then click **Accept**.
- 5. Click Close.
- 6. In the main form in CloudNine<sup>™</sup> LAW, select a document from the folder list.
- 7. Scroll to the **ImportStation** field.

The name of the computer that performed the import is listed.

# Importing by Turbo Import

You use the Turbo Import Loader (Turbo Import) utility to import electronic documents quickly into a Turbo Import enabled case.

• An Import Agent license is needed for creating a Turbo Import case.

## Configuring Turbo Import Settings

After you create a Turbo Import enabled case in CloudNine<sup>™</sup> LAW, the next step is configure your Turbo Import settings and to import files into your case. Turbo import provides general configuration options as well as options that are specific to the type of source you are importing.

# Configuring Turbo Import settings

- 1. On the File menu, click Import, and then select Turbo Import.
- 2. The CloudNine LAW Turbo Import utility opens.

🔍 CloudNine LAW Turbo Import		– 🗆 X
TI XYZ Jan Import Setup In Progress	Import Settings - TI XYZ Jan Content Filters Email Metadata Output	🌣 Settings
Import Data 0 Import Sets - 0 Total Sources - 0.0	Compound Documents           Image: Second Compound Documents           Image: Second Compound Comp	+ Add Import Set
All Sources	Error Handling Include native placeholders for e <u>x</u> traction errors	🔀 Filters
Source Name	Pagswords	Errors
Refresh (F5) Auto-Refresh: 10 sec	Running LAW Services: 1	

The Turbo Import title bar is displayed on every section of the Turbo Import utility.

🔍 CloudNine LAW Turbo Import	-		×
Case Name		¢ Se	ettings
Import Progress Errors			

The upper left hand corner lets you know that you are in the CloudNine $^{\text{TM}}$  Turbo Import utility.

The case name is displayed in bold letters beneath "CloudNine Turbo Import Utility".

<u>Import</u>, <u>Progress</u>, and <u>Errors</u> are the available tabs within the Turbo Import utility. The currently selected tab will be indicated with a blue underscore.

The Settings can be accessed from the upper right hand corner of the window by selecting **Settings** or it is displayed the first time that you open the Turbo Import for a new case.

▲ You must select **OK** to proceed to the import section of Turbo Import. You can change the settings again prior to importing records by selecting the **Settings** (gear) button. If you select the **Settings** button to change the import settings then the option to cancel without making changes to the current setting changes is available.

For a newly created database, the Import Settings will open first for configuring the database settings.

For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed. Settings can be selected by choosing the **Settings** button from the Turbo Import.

### Screen Refresh:

The screen can be quickly refreshed by selecting **Refresh** at the bottom of the window or by selecting the **(F5)** key.

The page will Auto-Refresh at a set interval. The interval for the auto-refresh can be changed by selecting the drop down. The possible intervals are 5 seconds, 10 seconds, 30 seconds, 1 minute, or 5 minutes.

P The Auto-Refresh interval is only set for the time that you have the Turbo Import window open. Once you close the Turbo Import window, the interval reverts to 10 seconds.

The **Content** tab contains the settings for how Turbo Import will process the content being imported into LAW. This includes **Compound Documents, Error Handling, Passwords, Language Analysis**, and **Time Zone** settings.

▲ Settings can be viewed, but not changed once a Turbo Import has been started for a case except for the Passwords and File Type Management database.

**Configuring Turbo Import Content settings.** 

 On the File menu, click Import, and then select Turbo Import. The CloudNine LAW Turbo Import utility opens directly to the settings (Content tab) for new databases.

🔍 CloudNine LAW Turbo Import		– 🗆 X
TI XYZ Jan	Import Settings - TI XYZ Jan	🌣 Settings
Import Data 0 Import Sets - 0 Total Sources - 0.0	Content     Filters     Email     Metadata     Output       Compound Documents     Image: Compound documents     Image: Compound documents     Image: Compound documents	+ Add Import Set
All Sources	Error Handling Include native placeholders for e <u>x</u> traction errors	V. Filters
Source Name	Pagswords  Pagswords  Import  Note: These passwords are not dynamically shared with LAW	Errors
	Language Analysis  Identify language content during analysis  Restrict language identification to common languages  Time Zone  (UTC) Coordinated Universal Time  Settings are locked once data is imported, except for passwords  OK	
Refresh (F5) Auto-Refresh: 10 sec	which can be provided at any time to process encrypted files.	

- ▲ You must select OK to proceed to the import section of Turbo Import. You can change the settings again prior to importing records by selecting the **Settings** button. If you select the **Settings** button to change the import settings then the option to cancel without making changes to the current setting changes is available.
- For a newly created database, the Import Settings will open first for configuring the database settings.
   For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed. Settings can be selected by choosing the Settings button from the Turbo Import.

# Compound Documents

Compound documents are composed of a container document and embedded documents. For example, a Word document may contain an embedded spreadsheet. The embedded spreadsheet is considered to be embedded one level down from the container document. LAW supports up to 99 levels of embedded compound documents. So if the embedded spreadsheet includes an embedded PowerPoint file (second level down) that further includes an embedded PDF (third level down), LAW can extract all four files.

The **Expand compound documents** check box determines whether embedded documents are expanded and indexed separately from their parent document when compound documents are imported into LAW.

When the **Expand compound documents** check box is selected, compound documents are expanded and imported as attachments of their parent document, and the embedded files will be searchable in LAW.

- Parent document will have its text and the child's(children's) text.
- Child document will have only its text.

#### To disable extraction of compound documents

The default setting is enabled, which does expand embedded documents. Once this setting is disabled and the Turbo Import has been started then the settings are locked for all future imports in this database.

- 1. On the **File** menu, click **Import**, and then click **Turbo Import**. The CloudNine<sup>™</sup> LAW Turbo Import utility opens.
- 2. **Import Settings** opens in the window and will open first to the **Content** tab.
- 3. Unselect **Expand compound documents** to disable the feature.

Disabling the check box prior to importing files or folders into the database is the only way to disable this feature.

If an embedded file cannot be opened, a warning will be generated and logged in the Session Viewer and ErrorMsg field.

#### Supported embedded file types

The following file types are supported for extraction from compound documents:

- Microsoft Word/RTF
- •Microsoft Excel
- Microsoft PowerPoint
- Adobe Acrobat PDF
- SnapShot
- Microsoft Visio

•Microsoft Outlook.FileAttach (Word-authored e-mail with inline attachments, generally stored in RTF)

•Microsoft Project

Package\*

\*A Package is a general type of embed; it can be a text file or a zip file, for example. Any of the above types may also be embedded as a package type depending on the software installed when a user embeds the file. For example, if a user were to embed an Excel spreadsheet into a Word document, and Excel is not installed, the spreadsheet will be embedded as Package.

Supported containers file types and embedded files

The following table lists common embedded file types that LAW supports for extraction:

Office 95 and earlier versions	of Office are not supported	with CloudNine™ I AW
Office 33 and earlier versions	of office are not supported	

Description	Detection	Extraction		
Non-Microsoft Office Formats				
Adobe Acrobat (pdf)	Y	Y		
Rich text format (rtf) *Converted to Word format for extraction. Original file is preserved.	Y	Y		
Office 2007 and above see System Requirements for full listin (with LAW versions 6.8+)	ngs.			
Excel Spreadsheet (OpenXml)	Y	Y		
MS Office Data File (OpenXml)	Y	Y		
PowerPoint Presentation (OpenXml)	Y*	Y*		
*Compound documents not fully supported in this format				
Word (OpenXml)	Y	Y		
Office 2013, Office 2010, Office 2007 (with LAW versions 6.7 and 6.6)				
Excel Spreadsheet (OpenXml)	Y	Y		
MS Office Data File (OpenXml)	Y	Y		
PowerPoint Presentation (OpenXml)	Y	Y		

Description	Detection	Extraction	
Word (OpenXml)	Y	Y	
Office 2003			
Word	Y	Y	
Word (xml)	Y	N	
Excel	Y	Y	
Excel (xml) *Compound documents not supported in this format	*N	*N	
OneNote	N	N	
PowerPoint	Y	Y	
Project	Y	Y	
Project (xml) *Compound documents not supported in this format	*N	*N	
Publisher	**Y	Y	
Visio	Ν	Ν	
Visio (xml) *Currently not recognized by file engine	*ү	Ν	
Office 2002/XP, Office 2000			
Word	Y	Y	
Excel	Y	Y	
PowerPoint	**Y	Ν	
Publisher	Y	Y	
Project	Y	Y	
Visio	Ν	N	
Office 97			
Word	Y	Y	
Excel	Y	Y	
PowerPoint	Y	Y	

Description	Detection	Extraction
Project	Y	Y

\*\*Detection of embeds in these types is limited to the types of files supported for extraction (see above list).

# **Error Handling**

**Include native placeholders for extraction errors -** Creating placeholders for contained/embedded/attached files that have an error during native extraction. The option can be enabled or disabled.

The default setting is disabled, which doesn't include placeholders for errors during the import process. Once this setting is enabled and the Turbo Import has been started then the settings are locked for all future imports in this database. When include native placeholders is enabled and Turbo Loader fails to extract the native file for a document, LAW will have a native text file for that document with the error details. LAW ErrorMsg field will be populated in both scenarios.

- 1. On the **File** menu, click **Import**, and then click **Turbo Import**.
- 2. The CloudNine<sup>™</sup> LAW Turbo Import utility opens.

CloudNine LAW Turbo Import		- □ >
MYZ Jan	Import Settings - TI XYZ Jan	🌣 Settin
	Content Filters Email Metadata Output	
nport Data mport Sets - 0 Total Sources - 0.0	Compound Documents  Expand compound documents	+ Add Import Set
All Sources	Error Handling Include native placeholders for extraction errors	🔀 Filters
Source Name	Passwords	Errors
	+ Import	
	Note: These passwords are not dynamically shared with LAW	
	Language Analysis	
	Identify language content during analysis	
	Restrict language identification to common languages	
	Time Zone	
	(UTC) Coordinated Universal Time $\qquad \lor$	

- 3. Import Settings opens in the window and will open first to the Content tab.
- 4. Select **Include native placeholders for extraction errors** to enable the feature.
- Oisabling the check box prior to importing files or folders into the database is the only way to disable this feature.

#### Passwords

The Passwords section allows you to enter any known passwords for passwordprotected Adobe Acrobat PDFs, Pkzip, Zipx, 7zip archives, and all office files (ex. PPT, PPTX, DOC, DOCX, XLS and XLSX files). This enables LAW to analyze and extract both metadata and content from the protected documents. When the password for a password-protected file in the case is added to the Passwords section, the document's text and metadata will be extracted for use in LAW but the file will remain encrypted.

- Passwords can be manually added or imported from a line-delimited .txt file.
- Up to 500 passwords can be added to the Passwords section.

- All passwords in the passwords section are case-sensitive. If the password for a file is Abc123, then Abc123 would need to be entered; abc123 will not unlock the file.
- Passwords can be added or edited both before and after import.

## **<u>To manually add a password:</u>**

1. In the text field next to the **Add** button +, type the password paying attention to case sensitivity.

+	Import
	+

Note: These passwords are not dynamically shared with LAW

2. Click the **Add** button +

The password is added to the password list.

asswords		
	+ Im	port
abc1234		
abc1234 ABC1234		

Note: These passwords are not dynamically shared with LAW

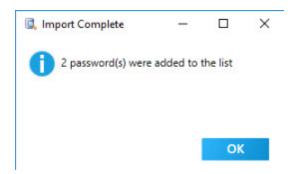
# To import passwords into a case:

1. Click the **Import** button, **Import**, to open the **Select file containing passwords** (Line Delimited) dialog box.

一 个 二 > Thi	is PC > Desktop >		✓ Ŏ Search	Desktop	Q,
rganize 🔻 New folde	er			<b>∃</b> ≡≣ ▼	
🔜 Desktop 🛛 🖈 ^	Name	Date modified	Туре	Size	
🕹 Downloads  🖈 🚽	Installs	11/14/2018 4:51 PM	File folder		
🗄 Documents 🖈	shared to laptop	12/24/2018 11:30	File folder		
📰 Pictures 🛛 🖈	passwordsSample	12/24/2018 2:26 PM	Text Document	1 KB	
💻 This PC 🛛 🖈	TestBoxShare - Shortcut	11/27/2018 5:54 PM	Shortcut	3 KB	
New screen shot					
Screenshots					
Settings					
shared to laptop					
ConeDrive					
This PC					
3D Objects					
Desktop					
Documents Y					

2. Browse to and select the password .txt file you want to import, and then click the **Open** button.

The following message is displayed indicating the number of passwords successfully imported:



3. Click **OK** to close the message.

The passwords are imported and added to the passwords list.

	+	Import.
lbc1234		
bc1234 \BC1234		

Note: These passwords are not dynamically shared with LAW

#### **<u>To delete a password:</u>**

• On the **Passwords** tab, click the password you want to delete, and then press the DELETE key on your keyboard.

## Language Analysis

By default, the **Identify language content during analysis** and **Restrict language identification to common languages** check boxes are not selected.

- **Identify language content during analysis.** Language content is identified during the analysis phase of the file import process.
- **Restrict language identification to common languages.** Language identification is restricted to common languages, which can help improve accuracy of language identification.

Turbo Import automatically analyzes the first 200 MB of all documents to identify the language used. If a document is less than 200 MB, the entire document is analyzed.

The default setting is disabled, which doesn't detect the different languages in the text. Once this setting is enabled and the Turbo Import has been started then the settings are locked for all future imports in this database.

- 1. On the File menu, click Import, and then click Turbo Import.
- 2. The CloudNine<sup>™</sup> LAW Turbo Import utility opens.

🔍 CloudNine LAW Turbo Import		- 🗆 ×
Import Setup In Progress	Import Settings - TI XYZ Jan	🌣 Setting:
	Content Filters Email Metadata Output	
Import Data 0 Import Sets - 0 Total Sources - 0.0	Compound Documents  Expand compound documents	+ Add Import Set
All Sources	Error Handling Include native placeholders for extraction errors	V. Filters
Source Name	Passwords	Errors
	+ Import	
	Note: These passwords are not dynamically shared with LAW	
	Language Analysis	
	Identify language content during analysis	
	Restrict language identification to common languages	
	Time Zone	
	(UTC) Coordinated Universal Time $\checkmark$	
	Settings are locked once data is imported, except for passwords which can be provided at any time to process encrypted files.	
efresh (F5) Auto-Refresh: 10 sec	V Running LAW Services: 1	

- 3. Import Settings opens in the window and will open first to the Content tab.
- 4. Select Identify language content during analysis to enable the feature.
- 5. By default the **Restrict language identification to common languages** is enabled when **Identify language content during analysis** is enabled. You can choose to disable this option if desired.
- Oisabling the check box prior to importing files or folders into the database is the only way to disable this feature.

#### Time Zone

The Turbo Import settings enable configuration for time zone settings upon import.

Considerations for time zone settings:

- Default time zone is UTC (Coordinated Universal Time).
- Users can select a different time zone before importing data.
- Select only ONE entry from the drop down list.
- This setting is locked after the first source is committed so that all sources will use the same time zone.
- The setting shifts all date and time fields to the selected time zone.

- Note that this setting also automatically changes the time zone for the imported items when you e-print or convert documents to TIFF files. The date and time information in the print output of items match the imported metadata.
- ▲ When you are doing single-document TIFF conversion, the time zones that are associated with image or PDF files do not automatically adjust to match the time zones of the native files. In such circumstances, if you need dates to match between the native files and image or PDF files, you can manually change the time zone on your system prior to printing to match the time zone of the native files. For more information about converting documents to TIFF or PDF, see <u>Converting Documents to TIFF</u>

## **Configuring the Time Zone Setting**

- 1. On the File menu, click Import, and then click Turbo Import.
- 2. The CloudNine LAW Turbo Import utility opens.

🔍 CloudNine LAW Turbo Import		- 🗆 ×
TI XYZ Jan Import Setup In Progress	Import Settings - TI XYZ Jan	🌣 Setting
Import Data 0 Import Sets - 0 Total Sources - 0.0	Content     Filters     Email     Metadata     Output       Compound Documents     Image: Compound documents     Image: Compound documents     Image: Compound documents	+ Add Import Set
All Sources	Error Handling Include native placeholders for extraction errors	V Filters
Source Name	Pagswords	Errors
	Note: These passwords are not dynamically shared with LAW         Language Analysis         Identify language content during analysis         Identify language identification to common languages	
	Time Zone         (UTC) Coordinated Universal Time         Settings are locked once data is imported, except for passwords which can be provided at any time to process encrypted files.	

For a newly created database, the Import Settings will open first for configuring the database settings.

For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed.

3. Select the dropdown next to the default time zone.



4. Then select the desired time zone from the drop down list.

Content F	ilters Email	Metadata	Output	
ompound Docum	ents			
Expand com	pound docume	nts		
rror Handling				
Include nation	ve placeholders	for extraction erro	ors	
(UTC) Coordinated	d Universal Time		~	
(UTC+00:00) Dubli	n, Edinburgh, Lisb	on, London		+ Import.
(UTC+00:00) Monr	ovia, Reykjavik			
(UTC+01:00) Casal	planca			
(UTC+01:00) Amst	erdam, Berlin, Ber	n, Rome, Stockholm,	, Vienna	
(UTC+01:00) Belgr	ade, Bratislava, Bu	idapest, Ljubljana, Pi	rague	
(UTC+01:00) Bruss	els, Copenhagen,	Madrid, Paris		
(UTC+01:00) Sao T	ome			
(UTC+01:00) Saraje	evo, Skopje, Warsa	aw, Zagreb		
(UTC+01:00) West	Central Africa			
(UTC+02:00) Amm	an			
(UTC+02:00) Ather	ns, Bucharest			
(UTC+02:00) Beiru	t			
(UTC+02:00) Cairo			~	
	ed Universal Tim		~	

All files and folders in this database will be imported using that time zone.

If all of the desired import settings have been selected, then select OK. If not, then select the <u>Filters</u> tab at the top to configure your filters.

The **Filters** tab contains the settings that Turbo Import uses for filtering documents prior to importing into LAW. This includes **Deduplication**, **NIST**, and **File Type** filtering settings. All filters have one of two options once enabled: **Include** or **Exclude**.

▲ Settings can be viewed, but not changed once a turbo import has been started for the case except for the Passwords and File Type Management database.

# **Configuring Turbo Import Filters settings.**

- 1. On the **File** menu, click **Import**, and then select **Turbo Import**. The CloudNine LAW Turbo Import utility opens directly to the settings (**Content** tab) for new databases.
- 2. Select the **Filters** tab.
- 3. Then select the filters that you desire to enable for all imports in this database: Deduplication, NIST, and/or File Type Filtering.
- ▲ You must select **OK** to proceed to the import section of Turbo Import. You can change the settings again prior to importing records by selecting the **Settings** button. If you select the **Settings** button to change the import settings then the option to cancel without making changes to the current setting changes is available.
- For a newly created database, the Import Settings will open first for configuring the database settings.
   For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed. Settings can be selected by choosing the **Settings** button from the Turbo Import.

## Deduplication

Deduplication is a process that checks the records imported into a database for duplicates of the records either globally or within a custodian. Deduplication in LAW is based upon family relationships and individual records will not be deduped against components of a family.

☑ The \_DupID field for Turbo Import records will use the EDA ID of the parent record not the LAW ID as in Electronic Discovery enabled cases.

## Enable duplicate document detection

## **Configuring Turbo Import Deduplication settings**.

- 1. On the **File** menu, click **Import**, and then select **Turbo Import**. The CloudNine LAW Turbo Import utility opens directly to the settings (**Content** tab) for new databases.
- 2. Select the **Filters** tab.

	Filters	Email	Metadata	Output	
Deduplication					
	COMPANY AND	document det		A	
Deduplication	Mode	Include	it is considered a	duplicate, then:	
Mas	~	Include		*	
NIST (NSRL)					
Enable	NIST (NSR	L) detection			
If hashes mat	ch, then:				
Include	$\sim$				
File Type	et et	A		File Type Manager	
	file type fil				
	s not specific	ally included o	r excluded as:		
Include			~		
Date Range	Filtering				
5	То				
From		iy 15	+		
From	15 An				
Contraction of Contraction	15 Ar				
Contraction of Contraction	[15] Ar				
Contraction of Contraction	15 Ar				
Contraction of Contraction	15 Ar				
Contraction of Contra	15 Ar				

3. Select Enable duplicate document detection.

If deduplication is not enabled during Turbo Import then you would need to dedupe through the <u>Deduplication Utility of LAW</u> if you need to dedupe later.

## **Deduplication Mode**

In most cases, either the MD5 or SHA1 mode provide sufficient deduplication integrity. However, if there is a question about which to use, consult applicable policies for your organization.

The two modes with Custodian in the name indicate that deduplication will compare sources only within each custodian and not across custodians.

- MD5. Uses 128-bit string; used to deduplicate files across all sources.
- SHA1. Uses a 160-bit string; used to deduplicate files across sources.
- **MD5Custodian**. Uses a 128-bit string; used to deduplicate files within a source.
- **SHA1Custodian.** Uses a 160-bit string; used to deduplicate files within a source.

□ If record is considered a duplicate then (Action).

This setting determines the action to take once a duplicate is located. Two options are available:

• **Include.** Creates a record for the duplicate in the database and copies the native file into the case folder.

• **Exclude.** Does not create a record, no text is extracted, and the native file is not copied to the case folder.

# NIST(NSRL)

The chief purpose of NIST filtering is to focus investigation on user-generated data by removing from consideration files that are of types that are unlikely to be responsive. Examples of such file types include system files and executable files. The National Institute of Standards and Technology (NIST) is an agency of the U.S. Department of Commerce that maintains and publishes a database of known computer file profiles. This database is referred to as a reference data set (RDS) and is compiled by NIST's National Software Reference Library (NSRL).

The NIST filter uses the RDS database to compare files against a known set of software applications. The NIST filter is typically employed in forensics cases to scan for and remove system files and application logic files from consideration as case documents.

# **P**

Before case files can be filtered by the NIST Items filter, a NIST database must be downloaded and configured through the LAW Configuration Utility under environment settings. A NIST database within SQL is required for Turbo Import LAW cases for which you want to use the NIST Items filter. Once a NIST database is downloaded and attached to SQL through the LAW configuration utilty, the Enable NIST (NSRL) detection is enabled by default.

If a NIST database has not been downloaded and configured in the LAW

configuration utility - environment settings, the Warning icon,  $\triangle$ , is displayed in the NIST section of the Filters tab next to Enable NIST (NSRL) detection.

In order to configure the NIST database for use with LAW's Turbo Import please see Environment settings NIST configuration. Once a NIST database is downloaded and attached to SQL through the LAW configuration utility, the warning icon is not displayed.

## NIST (NSRL)

**Enable NIST(NSRL) detection -** This option is enabled by default if the NIST database has been configured in the LAW Configuration Utility.

**If hashes match, then:** When you enable the NIST(NSRL) filter, you can select one of the following actions for the import to take when a NIST(NSRL) record is detected: include or exclude the NIST files.

- To allow NIST items to be included in the database, leave the **Include** selected for the drop down.
- To exclude NIST items from database, select **Exclude** from the drop down.
- ✓ If a NIST database is not configured in the LAW Configuration Utility and enabled in the settings, then the NIST Items filter will not function.

# **File Type**

File type settings allow users to identify specific files for processing. CloudNine<sup>™</sup> LAW supports import of all file types. Even if a file type is not supported for printing or conversion, metadata and text may still be extracted. After importing a file, if an application is installed on the computer that is capable of opening and printing it, then the file can be processed to TIFF, PDF, or paper.

Files that could not be converted to TIFF can still be exported and delivered in native file format. Provided the reviewer has the native file application, the file can be opened and reviewed. For this reason, loading all file types into LAW is recommended. However, it is understandable that users may not wish to import certain file types, such as common system files.

#### File type management database

In CloudNine<sup>™</sup> LAW, the file type management database is used to populate the SourceApp field in LAW. The SourceApp field assigns a source application to native files based on the file type and source application mappings in the file type management

database. The source application assigned to a native file is used for e-printing and TIFF conversions in LAW.

The File Type Managment database is configured in the LAW Configuration Utility.

▲ Filtering will only apply to family parent records. Child documents will respect the include/exclude value of their parent. If a Parent file type is excluded then the child record will be excluded. If a Parent file type is included then the child record will be included

**Enable file type filtering -** This allows filtering during import to include only selected types of documents for processing.

1. To enable select **Enable file type filtering**.

File Type	
Enable file type filtering	File Type Manager
Treat file types not specifically included or excluded as:	WARNING: File Type Manager changes are global and apply to all cases that use the same FTM database and enable file type filtering. FTM changes also apply to
Include $\vee$	previously imported documents whose type changed from exclude to include.

**File Type Manager**- Once the file type filtering has been enabled the **File Type Manager** will have a warning beside it. The warning states, "File Type Manager changes are global and apply to all cases that use the same FTM database and enable file type filtering. FTM changes also apply to previously imported documents whose type changed from exclude to include.".

## **<u>To Edit the File Type Manager</u>**

- 1. Select Enable file type filtering.
- 2. Select File Type Manager.

Changes in the File Type Manager are global and will apply to new imports in other cases. Both Turbo Import and Electronic Discovery cases are affected.

3. The Manage File Types opens in a new window.

nected To: Law5_Management						🔎 Extension		
<all entries=""> (4648)</all>		)rag a colu	umn heada	er here to gra	up by that column.			
Included (3277) Excluded (1412)	- IP	Inc.	Exc.	File ID	Description	Extensions	Active Ext.	Extrac
Platforms			∠		Disk Directory	Entonoiono	PIOUTO EIN.	Entrac
Content Types	- IF				Disk Volume Label			
Storage Types				3	Text File	TXT DOC INFIN	TXT	
Assigned Applications				4	Graphics Interchang	GIF GIFF	GIF	
					MS Windows Bitmap	BMP DIB SYS R	BMP	
				6	Amiga Interchange F	LBM IFF ILM BB	LBM	
				7	MS Paint Bitmap	MSP	MSP	_
				8	AutoDesk Animator	FLI FLC FII	FLI	
				9	GEM VDI Paint Image	IMG GEM	IMG	
				10	PC Paint/Pictor Pag	PIC PICTOR CLP	PIC	_
				11	PC Paintbrush Bitmap	PCX PCC	PCX	
				12	PKZip Archive	ZIP JAR WMZ	ZIP	_
				13	MacBinary (Mac Dat	MAC	MAC	
				14	Creative Voice Sound	VOC	VOC	
				15	DOS Program	EXE COM SYS 0	EXE	
tegories groups		ecord: I		1 of	► H <		1	

- 4. Configure file inclusion and exclusion lists, and other options:
  - $\circ$   $\mbox{Inc.}$  selected all documents and database records with Inc. will be written to the LAW database.
  - $\circ$  Exc. selected the file, its metadata, and its associated text are not written to the LAW database.
  - Both Inc. and Exc. selected exclude takes precedence over the include option and the file, its metadata, and its associated text are not written to the LAW database.
  - Neither Inc. nor Exc. are selected the status is determined by the setting selected in Treat file types not specifically included or excluded as
  - Assign default source applications for each file type.

**Treat file types not specifically included or excluded as:** Choose how to process files in the File Type Manager that are unmarked for include and exclude.

This setting is enabled case by case and is not a universal change that affects other databases.

File Type			
Enable file	type filtering		File Type Manager
	t specifically included or e	excluded as:	WARNING: File Type Manager changes are global and apply to all cases that use the same FTM database and enable file type filtering. FTM changes also apply to previously imported documents whose type
Include	~		changed from exclude to include.
Include			
Exclude			

When **Enable file type filtering** is selected, then **Include** is the default setting.

- Include any file type that does not have a specific include\exclude setting in the File Type Manager is included for processing.
- Exclude any file type that does not have a specific include\exclude setting in the File Type Manager is not included for processing.

To change to the Exclude setting, select the drop down and then select **Exclude**.

# Date Range Filtering

Date range filtering allows you to save time by not processing files that don't meet your case criteria. The date range you provide is inclusive, meaning that files within the date range you provide will be imported. You can provide multiple date ranges if you need to specify non-continuous date ranges.

Date range filtering is overly inclusive. If you have a family (parent document with attachments), and only one document within the family has a date within the range you specify, the entire family will be included.

Date Range Filtering							
From		То					
Any	15	Any	15	+			

To specify a date range filter:

- 1. Click in the **From** date field. Use the date picker to select the lower inclusive bound for your date range.
- 2. Click in the **To** date field. Use the date picker to select the upper inclusive bound for your date range.

- 3. If you need an additional date range, click the plus button to see an additional **From** and **To** box.
- 4. If you need to remove a date range, click the minus button next to the range you want to delete.

The **Email** tab contains the settings that Turbo Import uses for naming the emails being imported into LAW. This includes **Message Format**.

▲ Settings can be viewed, but not changed once a turbo import has been started for the case except for the Passwords and File Type Management database.

## **Configuring Turbo Import Email settings.**

1. On the **File** menu, click **Import**, and then select **Turbo Import**. The CloudNine<sup>™</sup> LAW Turbo Import utility opens directly to the settings (**Content** tab) for new cases.

🔍 CloudNine LAW Turbo Import		- 🗆 ×
TI XYZ Jan	Import Settings - TI XYZ Jan	🌣 Settings
Import Data 0 Import Sets - 0 Total Sources - 0.0	Content     Filters     Email     Metadata     Output       Compound Documents     Expand compound documents     Image: Compound documents	+ Add Import Set
All Sources	Error Handling Include native placeholders for extraction errors	K Filters
Source Name	Pagswords	Errors
Refresh (F5) Auto-Refresh: 10 sec	Running LAW Services: 1	

2. Select the **Email** tab.

- ▲ You must select **OK** to proceed to the import section of Turbo Import. You can change the settings again prior to importing records by selecting the **Settings** button. If you select the **Settings** button to change the import settings then the option to cancel without making changes to the current setting changes is available.
- For a newly created database, the Import Settings will open first for configuring the database settings.
   For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed. Settings can be selected by choosing the **Settings** button from the Turbo Import.

Message Format:

Import Setti	ngs - TI XY	Z Jan			
Content	Filters	Email	Metadata	Output	
Message Form	nat				
Native				$\sim$	
Settings are loo which can be p	cked once dat provided at an	a is imported y time to pro	, except for pass cess encrypted f	words iles.	ОК

- In **Message Format**, choose the e-mail format that Turbo Import uses for e-mail messages loaded into LAW.
- P The Message Format selected affects all email settings. E-mail messages can be imported as .eml, .msg, .html, or .mhtml files.

The Message Format list defaults to Native.

• **Native** - All files are imported in the original format (.msg, .eml, or .html). If you select **Native** and a message contains a number of recipients that exceeds the

maximum number a .msg file can support, the message will be converted to an .html file or it will be converted to an .mhtml file if the message contains inline images.

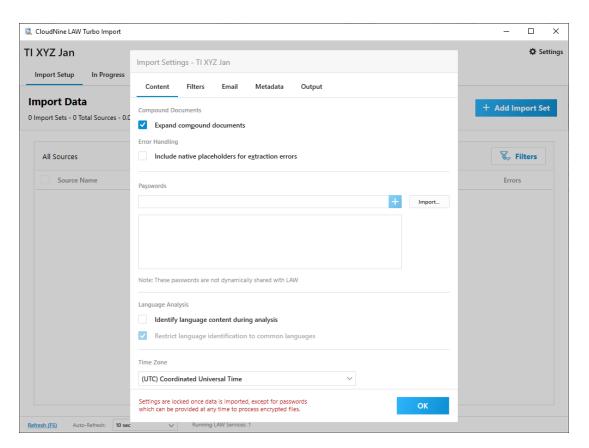
- HTML All files are imported in .html format.
- HTML (MHTML when images are present) Any message that contains inline images will be converted to .mhtml format, otherwise it is converted to .html format.
- MHTML All messages are exported to .mhtml format.

The **Metadata** tab contains the settings that Turbo Import uses for extracting metadata from the files being imported into LAW. This includes **Extract custom metadata properties for MS Office documents and Extract EXIF metadata properties for Image documents** settings.

▲ Settings can be viewed, but not changed once a turbo import has been started for the case except for the Passwords and File Type Management database.

# **Configuring Turbo Import Metadata settings.**

1. On the **File** menu, click **Import**, and then select **Turbo Import**. The CloudNine<sup>™</sup> LAW Turbo Import utility opens directly to the settings (**Content** tab) for new cases.



- 2. Select the **Metadata** tab.
- 3. The Metadata settings will be displayed.

Import Setti	ngs - TI XY	Z Jan				
Content	Filters	Email	Metadata	Output		
Metadata Sett	tings					
Extract	custom met	adata prop	erties for MS O	ffice document	5	
Extract	EXIF metad	ata properti	es for Image d	ocuments		
			l, except for pass cess encrypted fi			ОК

▲ You must select **OK** to proceed to the import section of Turbo Import. You can change the settings again prior to importing records by selecting the **Settings** button. If you select the **Settings** button to change the import settings then the option to cancel without making changes to the current setting changes is available.

 For a newly created database, the Import Settings will open first for configuring the database settings.
 For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed. Settings can be selected by choosing the **Settings** button from the Turbo Import.

## **Extract custom metadata properties for MS Office documents**

When the **Extract custom metadata properties for MS Office documents** check box is selected, the following metadata, if detected, is extracted during import:

- Comments in Microsoft Word, Excel, and PowerPoint files
- Tracked changes in Word and Excel files
- Hidden rows and/or columns in Excel files
- Hidden worksheets in Excel files
- "Very hidden" worksheets in Excel files
- Hidden slides in PowerPoint files
- Speaker notes in PowerPoint files
- Publisher and Access files are not supported.
- ✓ The metadata extracted will be populated in Extended Property fields in LAW. The extended property field names will start with EP followed by the name of the field as it exists in the source document.
  - Example: if a Word document is imported that contains a custom metadata field called Typist, LAW creates a metadata field during the import called EPTypist.
  - Enabling Extract custom metadata properties for MS Office documents
    - 1. Go to the Metadata tab in Settings.
    - 2. Select Extract custom metadata properties for MS Office documents.

When the **Extract custom metadata properties for MS Office documents** check box is not selected then the metadata is not extracted during import.

✓ The default option for new cases is not enabled.

## **Extract EXIF metadata properties for Image documents.**

**Extract EXIF metadata properties for Image documents.** Extracts custom metadata properties from image files during import if the checkbox is engaged. The metadata is only extracted from image files that have EXIF properties.

- The metadata extracted will be populated in Extended Property fields. The extended property field names will start with EP followed by the name of the field as it exists in the source document.
  - EX: if a PNG document is imported that contains a custom metadata field called Colors, LAW creates a metadata field during the import called EPColors.

Enabling Extract EXIF metadata properties for Image documents.

- 1. Go to the **Metadata** tab in Settings.
- 2. Select Extract EXIF metadata properties for Image documents.

When the **Extract EXIF metadata properties for Image documents** check box is not selected then the metadata is not extracted during import.

If the default option for new cases is not enabled.

The **Output** tab contains the settings that Turbo Import uses for naming the files being imported into LAW. This includes **Numbering Seed, Alpha-numeric** and **Number Attachments** settings. All documents imported into LAW are grouped by Custodian and then by source.

▲ Settings can be viewed, but not changed once a turbo import has been started for the case except for the Passwords and File Type Management database.

**Configuring Turbo Import Output settings.** 

 On the File menu, click Import, and then select Turbo Import. The CloudNine<sup>™</sup> LAW Turbo Import utility opens directly to the settings (Content tab) for new cases.

🔍 CloudNine LAW Turbo Import		– 🗆 X
TI XYZ Jan	Import Settings - TI XYZ Jan	🗘 Settings
	Content Filters Email Metadata Output	
Import Data 0 Import Sets - 0 Total Sources - 0.0	Compound Documents  Expand compound documents	+ Add Import Set
All Sources	Error Handling Include native placeholders for extraction errors	🔀 Filters
Source Name	Passwords	Errors
	+ Import_	
	Note: These passwords are not dynamically shared with LAW	
	Identify language content during analysis         Identify language identification to common languages	
	Time Zone (UTC) Coordinated Universal Time	
Refresh (F5) Auto-Refresh: 10 sec	Settings are locked once data is imported, except for passwords which can be provided at any time to process encrypted files.	

- 2. Select the **Output** tab.
- ▲ You must select **OK** to proceed to the import section of Turbo Import. You can change the settings again prior to importing records by selecting the **Settings** button. If you select the **Settings** button to change the import settings then the option to cancel without making changes to the current setting changes is available.
- For a newly created database, the Import Settings will open first for configuring the database settings.
   For databases that have already started a Turbo Import or configured the import settings, the Import tab will be displayed. Settings can be selected by choosing the **Settings** button icon from the Turbo Import.

#### **To set a seed value for Numbering Seed**

Note the following about choosing a seed value to use for the document identification (DocID) field:

- The DocID is a unique identifier assigned to each document.
- Turbo Import uses the Numbering Seed as the starting value for each document you import.

- Turbo Import increments the specified seed value for each record. For subsequent import sessions, the Numbering Seed box defaults to the next incremented value based off the last successfully exported item.
- The seed value can be a mix of numbers, letters, and symbols.
- The Numbering Seed field may contain up to 50 characters.
- The documents are grouped by custodian and then source for numbering.

Content	Filters	Email	Metadata	Output	
Imbering Seed					
0000001					
Alpha-nur	neric				
Number A	ttachme	nts			
eview					
0000001				^	
- 00000002					
- 00000003					
- 00000004					
0000005					
- 00000006					
- 00000007					
8000000				~	
W Folder Struct	tura				
w rolder struct	ture		Preview:		
Custodian		$\sim$	A Cu	stodian Name Source Name	
Source		~		E Loose File	
Source		Y		Container File	
(select a leve	el)	$\sim$	A	Mailstore Root Folder	
nail Sort Order				<ul> <li>Mailstore Subfolder(s)</li> <li>Email</li> </ul>	
Sent On: Old	lest To N	ewest $\vee$			

Numbering Seed: - Defines the document id format for the imported documents.

- **Alpha-numeric** Alphabetic or numeric increases incrementally. (For numbers ending with an alpha character, when the check box is selected, the resulting numbering reflects this format: ABC001a, ABC001b, ABC001c.)
- Number Attachments Adds [Attachment Level # Family Count #]

Attachment Level - The first value within the bracket. Starts with 0 for the parent. Increases incrementally by 1 for each attachment.

Family Count # - The total number of attachments in the family.

• Email Sort Order - Defines the sort order to use for emails based on the Sent date.

Oldest To Newest - oldest sent date first.

Newest To Oldest - newest sent date first.

**Preview** - The preview window displays a sample of the numbering seed entered with alpha-numeric and/or number attachments settings if enabled.

## LAW Folder Structure Version 7.2+

The folder structure within LAW can be organized by Import Set, Custodian, and/ or Source. The organizational structure of all records imported into the selected case through Turbo Import is grouped according to the levels selected.

#### LAW Folder Structure Examples

In version 7.2+ the folder structure in LAW for all new Turbo Import cases is configurable. If you create custodians\* and load the source(s) file(s)/folder(s) in one or more import set(s) then you can change the organizational structure in LAW using LAW Folder Structure settings. The following scenarios used 2 custodians with each custodian having one or more sources in each Import Set.

#### **Data for the Examples:**

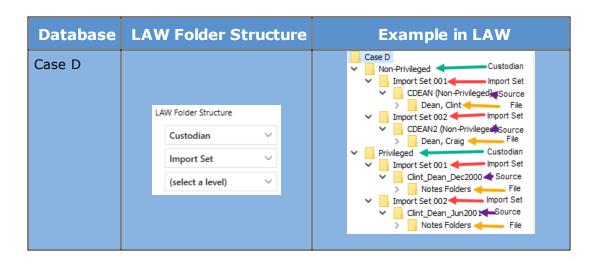
Import Set*	Custodian*	Source File/Folder
Import Set 001	Non-Privileged	CDEAN (Non-Privileged)
	Privileged	Clint_Dean_Dec2000
Import Set 002	Non-Privileged	CDEAN2 (Non-Privileged)
	Privileged	Clint_Dean_Jun2001
		Clint_Dean_Nov2001

\*By clicking the links you can access additional information on Import Sets and Custodians.

# Example:

1. Depending on the LAW Folder Structure selected, importing the same data using the same process produces different organizations in LAW. The following table provides an expansion, of the preview window in settings, based on the Data for the Examples table.

Database	LAW Folder Structure	Example in LAW
Case A	LAW Folder Structure          Custodian       ~         Source       ~         (select a level)       ~	Case A View Non-Privileged Custodian CDEAN (Non-Privileged) CDEAN (Non-Privileged) CDEAN2 (Non-Privile
Case B	LAW Folder Structure (select a level) $\checkmark$ (select a level) $\checkmark$ (select a level) $\checkmark$	Case B CDEAN (Non-Privileged) Source Dean, Clint CDEAN2 (Non-Privileged) Source Dean, Craig Clint_Dean_Dec2000 Source Clint_Dean_Dec2000 Source Clint_Dean_Jun2001 Source Clint_Dean_Nov2001 Source Surce File File File File File File File Fil
Case C	LAW Folder Structure Import Set $\checkmark$ Custodian $\checkmark$ (select a level) $\checkmark$	Case C



#### How to change the LAW Folder Structure

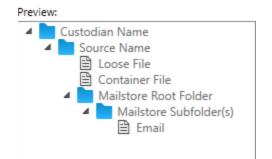
1. After creating a new Turbo Import enabled case, go to File>Import> Turbo Import and select the Output tab in Settings. The following LAW Folder Structure is the default setting.

LAW Folder Structure	
Custodian	$\sim$
Source	$\sim$
(select a level)	$\sim$

2. Click the LAW Folder Structure drop down list to change the levels.

(select a level)	$\sim$
(select a level)	
Import Set	
Custodian	
Source	

- 3. Click the desired level in the first drop down box or (select a level) to remove the level selection.
- 4. The preview window updates to display a sample of the resulting folder structure within LAW based on the selected LAW Folder Structure.



5. Select **OK** to save the settings.

Disabling the LAW folder structure will produce the Source Name as the top level folder with the file(s) contained within the source.

- ▲ Each level utilized of the LAW Folder Structure adds to the length of the file path, so it is recommended to only add levels needed to help organize the data.
- The Source is always listed in LAW as the preceding folder level to the file(s). Selecting Source for any level will produce the source name twice in LAW.
- ▲ The Output settings are locked once data is imported and cannot be changed.

## Starting a Turbo Import Session

After you create a Turbo Import enabled case in CloudNine<sup>m</sup> LAW, the next step is to import files into your case. Starting an import session involves the following tasks:

- Open CloudNine™ LAW Turbo Import
- <u>Configure Settings</u>
- Add an Import Set
- Select sources
- Start your Import

## **HAbout Import Sets**

An Import Set is a grouping of one or more custodians containing one or more sources, with each source containing one or more files. Files that are defined in an Import Set are submitted for processing at the same time. This allows you to setup an Import Set and begin processing it while you then define another Import Set.

The import name automatically increments for each import set that is started. Import Set 001, Import Set 002, etc... The name of the import set will also populate in the EDSession field and Import Set field within LAW for all records populated to LAW.

Prior to clicking Begin Import, the import set name can be changed. The maximum length of the import set name is 100 characters and can include any character supported by SQL.

✓ The default name is based on the "Import Set" followed by the count of import sets for the case + 1. Bear in mind that the Import Set default naming does not consider whether the import sets that were created used the default naming convention or not, and therefore will continue using "Import Set + the sequential number of the Import Set" - ex: Import Set 001, Custom Name, Import Set 003.

#### About Custodians

In Turbo Import, files within an Import Set are organized by custodian. A custodian can point to one or more individual files, folders, disk volumes, or network shares. For example, within a case you can create an Import Set with one custodian that points to a particular mail store, a second custodian that points to a particular folder, and a third custodian that points to a series of individual files and folders from various places in a file system.

You can work with custodians in the following ways:

- Create Import Sets, add sources within one or more custodians, and start processing.
  - You can create an individual custodian and then add sources to it.
  - You can simultaneously create a single custodian by using drag and drop.
  - Or you can simultaneously create many custodians at one time by using drag and drop.
- Edit custodians. By default, the custodian name is taken from the name of the item as it appears in the file system. You can Edit the custodian(s) prior to starting the import. If any of the custodian's sources have been imported then you are no longer able to edit the custodian name. There isn't an option to delete the custodian name once created.
- The custodian name cannot have any of these Windows path reserved characters:
  - < (less than)
  - > (greater than)
  - : (colon)
  - " (double quote)
  - / (forward slash)
  - \ (backslash)
  - | (vertical bar or pipe)
  - ? (question mark)
  - \* (asterisk)

The custodian name can be up to 50 characters long.

If you include a leading or trailing space in the custodian name, Turbo Import will automatically remove it.

#### Opening Turbo Import

- 1. A <u>Turbo Import enabled case</u> needs to be created in LAW 7.0+.
- 2. On the **File** menu, click **Import**, and then select **Turbo Import**. The CloudNine<sup>™</sup> LAW Turbo Import utility opens.

For a newly created database, the Turbo Import Settings dialog will open first for configuring the database settings.

#### Starting Turbo Import(committing sources)

nport Setup In Progress	Errors					¢
port Data port Sets - 0. Total Sources - 0.0						+ Add Import
All Sources						V. Filters
Source Name	Import Set	Custodian	Status	Doc Count	Size	Errors

The CloudNine<sup>™</sup> LAW Turbo Import utility initially displays on the **Import Setup** tab. This is where your Import Sets are added and defined. An Import Set is a group of one or more custodians containing one or more sources.

The import name automatically increments for each import set that is started. Import Set 001, Import Set 002, etc... The name of the import set will also populate in the EDSession field and Import Set field within LAW for all records imported during that import set.

🔍 CloudNine LAW Turbo Import	– 🗆 X
ГI Omega 01797	🌣 Settings
Import Data New Import Set	
Import Name	
Import Set 001	+ Add Custodian 👻
[	
<b>.</b>	
· · · · · · · · · · · · · · · · · · ·	
Drag files & folders here to create one new	Drag files & folders here to create a new
custodian for all files added	custodian for each top level item
▶ Browse ▼	🔁 Browse 👻
l	
	Cancel [1] Start Import
Refresh (F5) Auto-Refresh: 10 sec V Running LAW Services: 1	

1. Click **Add Import Set**. The dialog updates to allow you to add custodian(s) and source(s).

- 2. The first **Import Name** is automatically set to *Import Set 001*. You can modify the name to anything you want by clicking in the name and editing it. The import set name automatically increments for each import set created.
- 3. Add files and folders to a custodian in the Import Set. Files and folders can be selected using the Browse drop down, or by dragging and dropping files and/or folders from a standard windows File Explorer window.
  - a. Use the left pane if you want to create a single custodian for a set of files and/or folders you choose.
  - b. Use the right pane if you want to create a single custodian for each top level folder in the set of files and/or folders you choose.
- 4. The dialog updates to show you the custodian(s) and source(s) that have been added to the import set. You can add more sources to custodians in the list, or add sources into new custodians. The Source Name is not editable. It is always defined to be the folder source where the files originated.

🔍 CloudNine	LAW Turbo Im	port							_		×
TI Omeg	a 01797									¢s	Settings
Import Data	New I	mport Set									
Import Nam	e Set 001								+ Add Cus	todian	•
	Drag files & fo	lders here to create	one new custodia	an for all files add	led	 Drag files & fo	olders here to	create a new cus	todian for each to	o level it	em
Custodian:	Custodian 2			v	Edit				Browse	•	•
Delete Source	es (0)	Source Name	*****	Input							
		Ą		C:\Test Data\A							
Custodian:	Custodian 1			Ų	Edit				Browse		•
Delete Source	es (0)	Source Name		Input							
		D		C:\Test Data\D							
								Cancel	🗄 Start	Impo	rt
Refresh (F5)	Auto-Refresh:	10 sec	V Running L	AW Services: 1							

- 5. You can edit a custodian name by clicking **Edit** to the right of the name, typing in an updated name, and clicking **Save**.
- 6. Once you have the custodians and sources specified for the current import set, click **Start Import**. The screen updates to show details for the custodians in this import set.

Om	iega 01797						🌣 Setti
	t Setup In Progress	Errors					
mpo	rt Data						+ Add Import Set
Import	t Sets - 2 Total Sources - 0.53	6 GB					
All s	Sources						K Filters
	Source Name	Import Set	Custodian	Status	Doc Count	Size	Errors
$\square$	D	Import Set 001	Custodian 1	In Progress	6	0.003 GB	0
	A	Import Set 001	Custodian 2	In Progress	5	0.533 GB	0

- 7. Initially the **Status** will display as *Pending*. Once work begins to process the sources, the **Status** of each custodian will update to *In Progress*. When work is done for a custodian the **Status** will display *Complete*.
- Before importing Lotus Notes mail stores, make sure the Lotus Notes application is closed on all workstations that have LAW Service enabled. If Lotus Notes is open on the LAW Service while attempting to import Lotus Notes mail stores, the email messages in the Lotus Notes mail stores are not extracted during the import.
- ✓ To quickly add the contents of an entire drive, browse to the drive and open it to display the top level folder structure. Select, drag, and drop all top level folders and files into the desired drag & drop area.

Import Data Statistics

🔍 CloudNine LAW	Turbo Import		
TI Omega 01	797		
Import Setup	In Progress	Errors	
2 Import Sets - 3 To		86 GB	

As import sets are processed, the statistics at the top of the Turbo Import window update to reflect the data in the case, including:

- Number of Import Sets
- Total number of sources contained in the Import Sets
- Total size of the source data, in GB.

Import Data Filters

Import Setup In Progress	s Errors					
mport Data	0.536 GB				+ A	dd Import Set
All Sources						🏹 Filters
Source Name	Import Set	Custodian	Status	Source Name:	Select Value	~
D	Import Set 001	Custodian 1	Complete	Import Set:	Select Value	~
Α	Import Set 001	Custodian 2	Complete	Custodian:	Select Value	~
E	Import Set 002	Custodian 3	Complete	Custouian.		Reset Filters

When reviewing the Import Sets and Sources in your case in Turbo Import, you can use the **Filters** button at the top right to refine the list that is displayed. You can filter the list by:

- Source Name
- Import Set
- Custodian

Deleting Sources from an Import Set

mport Setup	In Progress	Errors					
n <b>port Da</b> nport Sets - 3	t <b>a</b> Total Sources - 0.536	6 GB					⊢ Add Import Se
1 Source S	elected					Re Re	emove Selected
Source	Name	Import Set	Custodian	Status	Doc Count	Size	Errors
D		Import Set 001	Custodian 1	Complete	6	0.003 GB	0
Α		Import Set 001	Custodian 2	Complete	5	0.533 GB	2
E		Import Set 002	Custodian 3	Complete	3	0.000 GB	0

You can delete sources from from an Import Set, even after they have been processed.

- 1. From the **Import Data** tab in Turbo Import, select the check box to the left of the source or sources you want to delete.
- 2. Click **Remove Selected**. The **Remove Sources** confirmation dialog displays.
- 3. Click **Yes** to confirm deletion of the source(s). the sources are removed.
- △ Deleting a source removes all associated data. It cannot be undone.
- When deleting Import Sets, Sources, and/or Custodians from Turbo Import, the process may be lengthy based on the number of records being removed, environment, and database speed. The delete process runs as a single agent, and removes data from the LAW case database (both TI and LAW), the Image Archive, Case Folder, and all native copies as well from the file system.

Deleting is best done after you're done importing data, as the delete process must complete before other pending Import Sets/Sources will be processed by Turbo Import. For example, if you start an Import Set, then queue a delete, the Import Set will finish importing. The Delete process will start, and any new imports committed by a user will remain in a "pending" state until the delete is completed. Other LAW processes, including Batch Processing, QC Tasks, Searching, and Exports are all available during the delete process. You may also import data with Turbo Import in other LAW cases.

## Screen Refresh:

The screen can be quickly refreshed by selecting **Refresh** at the bottom of the window or by selecting the **(F5)** key.

The page will Auto-Refresh at a set interval. The interval for the auto-refresh can be changed by selecting the drop down. The possible intervals are 5 seconds, 10 seconds, 30 seconds, 1 minute, or 5 minutes.

P The Auto-Refresh interval is only set for the time that you have the Turbo Import window open. Once you close the Turbo Import window, the interval reverts to 10 seconds.

The number of services running for the environment are displayed at the bottom of the Turbo Import window in **Running LAW Services**: 1.

## Turbo Import Progress

After you start an import for a Turbo Import enabled case, you can view the status of the import in the **Progress** tab. The progress tab has 3 main sections: Status, Case Statistics, and Agent Activity.

🔍 CloudNine LAW Turbo Import						- 🗆 ×
TI Omega 01797						🗘 Settings
Import Setup In Progress	Errors					
Work Pending					Case Status: Idle	Suspend Case
Case Statistics						
Documents Inventoried:	14	Processed Size:	0.718 GB	Errors:	4	
Inventoried Size:	0.536 GB	Documents Populated in LAW:	1022			
Documents Processed:	1034					
Agent Activity						
Agent Name	Activity	Start Time	File Name		File Size	Attempts
Refresh (F5) Auto-Refresh: 10 sec	$\sim$	Running LAW Services: 1				

Status

**Work Pending**: The list of processing that is pending for the case (e.g., Import, Email Hashing, Language Identification, Filtering, Data Population).

None refers to no work currently pending or in process for that case. If there are sources committed for processing, then the list of activities to be completed before processing finishes will be listed under Work Pending. The list will decrease as the various activities complete during the import process.

**<u>Case Status</u>**: Blacklisted, Idle, In Progress, Pending Case Priority, Suspended, Work Pending

- **Blacklisting** It is a mechanism in which a service instance stops processing a case after repeated attempts to work on the case fail. The service will try 5 times before a blacklisting is applied to a case. When a case is blacklisted, the service removes the case from consideration for further work. For example, the service will not start agents for inventory or perform analysis. After you resolve the issues causing the blacklisting, you can activate the case to resume processing.
- Idle- There is no work pending or in progress for this case currently.
- Work Pending Work has been queued an is awaiting processing.

- In Progress Case work is currently being processed.
- **Suspended** Suspending a case stops active agents and prevents new agents from working on the case. Suspended cases can be activated to resume processing.
- **Pending Case Priority** If there are multiple cases processing at the same time, the <u>top priority case</u> will process first and the other cases pending work have the Pending Case Priority status. Law Management Console (LMC) can change case priorities.
- ▲ Suspending a Turbo Import case stops ALL work in the case including any Turbo Imaging jobs.

**To Suspend a case:** Suspending a case prevents all agents from working on the case. After a case is suspended, the suspension can be lifted.

- To suspend the case from processing, click **Suspend Case**.
- The case status will change to suspended, and all agents will stop work on active case.
- Once each agent has successfully "stopped", the agent will be cleared from the Agent Activity grid.
- When the case is in a Suspended state, the **Suspend Case** button changes to **Activate Case**.
- In the main screen of the LAW Turbo Import case, Suspended will be displayed; so that if another user opens the case it will be obvious that it is in a suspended import status.

## To resume processing:

- When the case is in a Suspended state, the **Suspend Case** button changes to **Activate Case**.
- Select Activate Case.
- The case status will change to **In Progress** and resume importing.
- In the main screen of the LAW Turbo Import case, **In Progress** will be displayed; so that if another user opens the case it will be obvious that work is in progress.

#### Case Statistics

Case statistics lists the statistics for the overall case. This information is not session specific and is cumulative.

**Documents Inventoried:** The total number of top-level documents discovered during the inventory process. This count includes containers.

**Inventoried Size**: The total size of documents inventoried.

**Documents Processed:** The total number of documents that were inventoried and expanded based on import settings. (Inventoried + Analysis Yield.)

**Processed Size:** The total size of documents processed. (Inventoried Size + Analysis Yield Size.)

**Documents Populated in LAW:**The total number of documents that have been written to the LAW database based on import settings. (Note: Archive, Mailstore, and Forensic Image containers are not populated in LAW)

**Errors:** The total number of errors that were encountered during processing and data population. To view the error details go to the <u>Errors</u> tab.

#### Agent Activity

Displays the current agents utilized for the case if there are any processes running in the case.

**Agent Name:** Name of the agent working on the current activity. The name is based on the computer name where the agent is running.

**Activity:** One of the processing activities (Preparing Work, Inventory, Analysis, Email Hashing, Language Identification, Filtering, Generate population set, Extract documents/natives, Populate LAW).

**Start Time:** Time the activity (or the current file) being processed started.

File Name: The current file being processed if the activity is file based.

File Size: Size of the current file being processed if the activity is file based.

**Attempts:** Number of times we tried to process the current activity/file due to failures/errors (edited).

✓ If there are no sessions processing in this case, then there are no agents in the list.

#### Screen Refresh:

The screen can be quickly refreshed by selecting **Refresh** at the bottom of the window or by selecting the **(F5)** key.

The page will Auto-Refresh at a set interval. The interval for the auto-refresh can be changed by selecting the drop down. The possible intervals are 5 seconds, 10 seconds, 30 seconds, 1 minute, or 5 minutes.

**Q** The Auto-Refresh interval is only set for the time that you have the Turbo Import

window open. Once you close the Turbo Import window, the interval reverts to 10 seconds.

The number of services running for the environment are displayed at the bottom of the Turbo Import window in **Running LAW Services**: 1.

#### Turbo Import Errors

🔍 CloudNine LAW T	ſurbo Import		– 🗆 X
TI Omega 01	797		🔅 Settings
Import Setup	In Progress	Errors	
Display		Save Re-Process Total 2 (Selected 0)	Error Details
Filter By	~	FW_Podium_and_Tower_POC_logs.msg?10200 cost - january tower poc 1/31/2020 8:31:04 AM File is encrypted.	
Having	~	FW_Podium_and_Tower_POC_logs.msg?10200 cost - january tower poc 1/31/2020 8:31:05 AM File is encrypted.	
Processing	2 🕨		
Data Population	2		Document Properties
			File Ref:
			Custodian:
			Source:
			Container:
			File Name:
			File Type:
			From:
			Sent:
Refresh (F5) Auto-	-Refresh: 10 sec	Running LAW Services: 1	

After you create a Turbo Import enabled case in CloudNine<sup>™</sup> LAW and have imported files into your case, the next step is to review the errors if they exist. When a Source cannot be processed (due to access/corruption or inaccessible blockers), a critical failure error may occur. Other Sources will continue to process, but you must resolve the source error by either reprocessing the Source via the Errors Tab, or by deleting the problematic Source and re-importing a "fixed" copy of that Source.

From the Turbo Import window, click the **Errors** tab.

**Display**: Allows the sorting or displaying of the errors by filtering.

**Filter By**: A drop down that allows filtering of the records with errors by **All**, **Custodian**, **File Type**, or in version 7.2+ **Import Set**.

• All - Shows all files that have errors in this case.

- **Custodian** Filters the errors by Custodian. The field **Having** will list the custodians of files that contain errors as possible values.
- File Type Filters the errors by file Type. The field **Having** will list the records' that contain errors by file types as possible values.
- **Import Set** Filters the errors by Import Set. The field **Having** will list any import sets for records that contain errors.

**Having**: Allows further filtering based on the selection of Custodian, File Type, or Import Set in version 7.2+ and displays only the values for records with errors.

**Processing:** Allows filtering based on the types of errors. For example: Content Extraction Errors, Hash Error, Data Population, Encryption

If a file errors for encryption, then the passwords can be added to the Settings><u>Passwords</u>. Then the records can be Re-Processed.

The middle section displays the filtered errors individually to gather information about the error through Error Details and Document Properties. **Save** as a csv for review or **Re-Process** the selected errors.

Before selecting **Re-Process**, it is recommended to add the password for encrypted files, confirm the user has the correct rights for accessing the files, and the records aren't being accessed by another program.

**Error Details**: This provides a full text description of the error message for the selected record.

P Error Details and Document properties will only have values populated if a record that had an error during processing is selected.

#### **Document Properties:**

File Ref: The file's source location. Custodian: The name of the custodian for the file. Source: The name of the source in which the file is contained. Container: The type of container if applicable. File Name: The name of the file. File Type: The type of file. From: The sender of the file if applicable. Sent: The date/time sent if applicable.

### Filtering Errors

'l Omega 01797		🗘 Settin
Import Setup In Progress	Errors	
Display	Save Re-Process Tot	al 2 (Selected 0) Error Details
Filter By	FW_Podium_and_Tower_POC_logs.msg?10200 cost - january tower poc File is encrypted.	020 8:31:04 AM
All Custodian File Type	FW_Podium_and_Tower_POC_logs.msg?10200 cost - january tower poc 1/31/2 File is encrypted.	020 8:31:05 AM
Import Set Source		Document Properties
$\searrow$		File Ref.
		Custodian:
		Source:
		Container:
		File Name:
		File Type:
		From:
		Sent:

On the Turbo Import Errors tab, you can use the **Filter By** and **Having** drop downs in the upper left to narrow the list of displayed errors.

Select an option for **Filter By** first - **All**, **Custodian**, **File Type**, **Import Set**, or **Source**. The **Having** drop down will update to show you the options available based on your choice in **Filter By**. Select an item from the **Having** drop down to filter the displayed error list.

### **Reviewing Turbo Imports**

Turbo Imports can be reviewed through various methods. The errors can be reviewed on the <u>Errors</u> tab. The <u>Progress</u> tab in the Turbo Import utility provides case statistics for review. Through the main LAW interface you can go to Tools>Session Browser to review import session information.

### Session Browser:

- 1. Open a Turbo Import enabled case.
- 2. Through the main LAW user interface go to **Tools** and select **Session Browser**.
- 3. The **Session Browser** dialog lists existing sessions for the current case on the left. Select a session from the list.
- 4. Select a session.

5. The **Session Browser** is updated with details from the session you selected.

Today (0)		
Yesterday (0)		
Older (1) Session 0001 on OmegaApr2020	Label: Distributed: Directory:	Session 0001 on OmegaApr2020 No C:\LAW Cases\OmegaApr2020\\$EdaCase\\$EDA\\$Logs
	Creator:	Turbo Import
	Workstation:	svc://CNRDUL-6F97HR2:1
	Status:	Completed (non-recoverable)
	Processed:	4477 of 19753
	Records Written:	19753
	Size:	400.03 MB
	Errors:	21
Show all sessions (Only sessions initialized from	m this station are resumable)	
Resume Turbo Import		<u>D</u> one

The following items are available for review:

• Label. The session label.

• **Distributed**. Whether the import was distributed or not. (For Turbo Imports this value will always be "No").

• Directory. The directory where the import log is located.

 $\cdot$  Creator. The user name associated with the user who created the session. (For Turbo Imports this value will always be Turbo Import).

- Workstation. The workstation name where the session was created.
- Status. The status of the session; whether it completed or not.
- · Processed. The total number of documents processed.
- **Records Written**. The number of records written to the case during that session.
- Size. The size of all native files that were written to LAW.
- Errors. The number of errors that occurred during the session.

## To return to the Turbo Import utility:

- 1. Open a Turbo Import enabled case.
- 2. Through the main LAW user interface go to **Tools** and select **Session Browser**.
- 3. Select **<u>Turbo Import</u>** from the **Session Browser**.

1	This will launch Turbo Import and close the Session Browser. Are you sure?
	<u>Y</u> es <u>N</u> o

4. Select Yes.

LAW

5. The Turbo Import utility will open.

Or

- 1. Open a Turbo Import enabled case.
- 2. Through the main LAW user interface go to File
- 3. Then select Import
- 4. Finally select **Turbo Import** to open the Turbo Import Utility.

Or

- 1. Open a Turbo Import enabled case.
- 2. Through the main LAW user interface select Turbo Import.
- 3. From the lower right hand corner double click on Turbo Import: Idle .

## Scanning Documents

Before you can use a scanner with CloudNine<sup>™</sup> LAW, you must install the scanner on your computer according to instructions provided by the scanner manufacturer. Preparation to run a scanning job also should include the process of identifying the scanning requirements of the job.

Assuming a scanner is installed and your requirements are clearly drawn, the next step is to open LAW to *select* your particular scanner model. Selecting a scanner involves registering your scanner model within CloudNine<sup>™</sup> LAW. After you select your scanner, you configure scanning options according to the requirements of the scanning job. If you are using barcode break sheets, you also can set options for scanning them as well. Then you are ready to scan.

You can access configuration options of a scanner. Before you can configure a scanner, you must add one by selecting a particular model. If you have not yet selected a scanner, the scan status area reads **<No Scanner Detected>**. For more information on selecting a scanner see <u>Selecting a Scanner</u>.

To change particular settings, double-click items in the scan status area in the lower right corner of the main LAW window.

< Content Scanner's Maximum 300 dpi Simplex OCR(Y) Rotation(0) Drop Blanks(N) Single-Page(N)</p>

#### Selecting a Scanner

Before you can scan you must select and configure a scanner. After you add a scanner, whenever CloudNine™ LAW starts, it opens a connection to the scanner.

#### To select a scanner

- 1. Make sure your scanner is installed. You cannot select a scanner unless it is installed. Refer to the instructions provided by the scanner manufacturer.
- 2. On the **Scan** menu, click **Select Scanner**.

The **Scanner Selection** dialog box appears. It lists all of the currently available scanner drivers.

Scanner Selection	
Scanner Selection Scanner: Fujitsu ScanPartner 10 Fujitsu ScanPartner 10C Fujitsu ScanPartner 600C Fujitsu ScanPartner 93GX Fujitsu ScanPartner F.O. Fujitsu ScanPartner Jr. Fujitsu ScanPartner93GX (extended resolution HP Scanjet	OK Cancel Add Setup
Show only connected scanners	

- 3. Select your scanner model from the **Scanner** list.
  - If you want to narrow the list so it shows only connected scanners, select **Show** only connected scanners.
  - If your scanner model is not listed but you have an installation CD, follow the scanner manufacturer's installation instructions to install the scanner driver.
  - If you have downloaded a driver without installation instructions, click **Add** and then browse to the driver for your scanner.

Available scanner models are listed.

- 4. With your scanner model selected click **Setup**. If a dialog box appears that lists options for your scanner, then select the options that you want, and then click **OK**.
- 5. Click **OK**.

#### Driver support notes

The following guidance applies when selecting and configuring drivers for scanners:

- If the connected scanner is not in the list, contact CloudNine to determine if a driver is available for the scanner.
- LAW supports most scanners that use an ISIS driver. If you intend to use a scanner that is bundled with an ISIS driver, do not automatically run the installation for the scanner driver. First, check the LAW CD for that scanner model or contact us to determine if we have a driver for that scanner. Bundled driver installations typically contain additional system files that may overwrite critical image libraries and cause problems when running CloudNine<sup>™</sup> LAW.
- If an error occurs when selecting a scanner, there are two possible explanations: either the wrong driver was selected or the scanner was not recognized by Windows. The scanner will not be recognized if it was not turned on prior to the operating system loading. Ensure that the scanner is on and then restart the computer. If Windows recognizes the scanner and you still cannot select it, contact CloudNine for assistance.

#### Preparing to Scan

As you make preparations to scan, consider the following items:

#### Item

### Install your scanner according to manufacturer's instructions.

Make certain that Windows can detect the scanner and that all drivers and necessary software have been installed. Consult product documentation for the scanner or visit the manufacturer's website for instructions and to locate up-to-date drivers.

#### **Evaluate the project / work order**

Gather project specifications and any other instructions.

#### Evaluate materials to be scanned.

Are the documents single-sided or double-sided? What is the paper size? Color? How will tabs, post-it notes, folder covers, etc., be handled?

#### **Consider page and document breaks**

Will you use physical or logical (unitization) breaks?

Physical breaking identifies new documents and pages based on a physical boundary, such as rubber band, staple, paper clip, or binder clip.

Logical (unitization) examines the document itself to determine the start and end of each document.

Will you use document break sheets (slip sheets) or "prep" as you go? Slip sheets may be inserted at the start of each folder, document, and attachment. Once scanned, LAW will recognize the slip sheet and create the appropriate document boundary. By choosing the

### Item

prep-as-you-go method, the document boundary is removed. The document is scanned using hotkeys or functions on the keyboard. The document is reassembled accordingly.

#### **Consider attachments**

Will attachments (parent/children groups) be created? If yes, how will they be created? Are they determined by the smallest physical break?

#### **Determine coding scheme**

What will the numbering scheme be?

Will fields be coded at scan time or after scan time? Typically, the fields coded at scan time will be those where the value is the same for multiple records such as a Box or Folder.

#### Configure scanning options in CloudNine™ LAW

Select a scanner.

Configure scanning options.

Turbo Import databases have all scanning functionality disabled. When <u>creating a</u> <u>database</u>, choose ED Loader enabled databases for scanning.

#### Using Barcode Break Sheets

Documents may be prepared for scanning using barcode break sheets. Break sheets are also sometimes called slip sheets, are sheets of paper inserted into the set of documents to be scanned. They are scanned along with source documents. Each sheet contains a barcode that identifies the page that follows is a new document, folder, or attachment. With additional configuration, the barcode values may be stored in an index field or used to number the documents and pages.

LAW comes with four pre-defined barcode break sheets. The pre-defined break sheets are available in the LAW installation folder. By default, this is the C:\Program Files (x86) \LAW50 directory.

Pre-defined break sheet files in the installation folder:

- Attach1.tif (Attachment Break)
- Break\_Doc1.tif (Document Break #1)
- Break\_Doc2.tif (Document Break #2)
- Break\_Folder.tif (Folder Break)

Barcode break sheets may also be used to indicate document breaks when importing raw images, or to code multiple index fields. See the <u>Importing Raw Images</u> section for additional information.

#### To configure barcode settings

1. On the **Tools** menu, click **Options**, and then click the **Imaging** tab.

Options					
Imaging Indexing Notifications					
Scanner Output Color Format Binary File Type TIFF (*.TIF) Compression CCITT Group 4 Storage Schema: Storage Schema: Serialized Multipage	Barcode Breaks         Folder       987654321         Doc       12345678901         Attach       ATT-111         Ignore				
	<u>O</u> K <u>C</u> ancel				

2. Configure the following imaging options as needed:

Option	Description
Folder	Determines the barcode value used to represent a folder break.
	If a barcode that matches this value is encountered while scanning, a new document is started in a new folder. LAW will increment the

Option	Description
	current folder name by one for the newly created folder's name. If the next logical folder does not exist, it is automatically created.
Doc	Determines the barcode value used to represent a document break.
	If a barcode that matches this value is encountered while scanning, a new document is started. To include multiple document break sheets, enter all possible values separated by semi-colons (;).
	Also see Storing Barcode Break Sheet Values in a Field below.
Attach	Determines the barcode value used to represent an attachment break. If a barcode that matches this value is encountered while scanning, a new attachment is created and attached to the previous document.
Ignore	Use this option to ignore and drop barcodes matching the specified value during scan time. Multiple values to ignore may be specified by separating each value with a semi-colon (;).
Dilate Scan Region	Dilates or widens the area tested for barcodes. This setting can help recognize poor barcodes with lines missing that may prevent recognition; however, its use may actually prevent recognition of otherwise recognizable barcodes. As such, it should be used with caution and only as a last resort when all other options have failed.
Scan Entire Page	Causes the entire page to be scanned for barcodes at scan time. This may slow scanner throughput due to the increased time required for barcode detection and should only be used if barcodes are located in various positions on the page.
	If this setting is disabled, only a portion of the page will be scanned for barcodes.
Use thorough scan	Increases the resolution of scanning for barcodes to improve recognition> Using this setting can help to recognize poor quality barcodes. This requires more time to scan but the extra time required can be offset because of the relatively small scan region.

## Storing Barcode Break Sheet Values in a Field

You can use LAW to automatically store barcode break sheet values in a custom field for each document. To use this feature, barcode break sheets must be created for every document. In the Barcode Breaks section of the Imaging Options (see above), enter a **Doc** field with this syntax:

/p/f <prefix> <field>

where <prefix> is the prefix used within the barcode itself, and <field> is the name of a custom field in LAW where the rest of the barcode value should be stored. If spaces exist in the prefix or field, they must be enclosed in single quotes.

For example, if you specify "/p/f b BarcodeValue", then LAW will look for barcodes that start with "b" (the prefix you specified) and put the remainder of the barcode value in the LAW field named "BarcodeValue". For an actual barcode value containing "b23456789", LAW would put "23456789" in the "BarcodeValue" field corresponding to the document whose Barcode Break Sheet contained that value.

### To extract barcodes

CloudNine<sup>™</sup> LAW can scan all pages of the current document for any barcode values.

#### On the **Tools** menu, click **Barcodes**, and then click **Scan All Pages**.

All pages of the current image will be scanned, and any recognized barcodes will be saved to a delimited text file in the following structure:

- Value
- Page
- BarcodeNo

If no region is active, the entire page will be scanned. If a region has been created, only this area of every page will be scanned.

#### **To view or modify the barcode scanning region**

#### To view the barcode scanning region

- 1. Select an image.
- 2. On the Tools menu, click Barcodes and then click Display Scan Region.

The region used for barcode detection is highlighted on the current image.

#### To modify the barcode scanning region

When you set the scanning region, you can modify the existing scan region or create a new one.

- 1. Select an image.
- 2. Modify the scan region as follows:

Option	Steps
To modify the current scan region.	<ul> <li>On the Tools menu, click Barcodes and then click Set Scan Region.</li> </ul>
To create a new barcode scanning region.	• Hold the CTRL key down and draw a rectangle by dragging the mouse from one corner of the rectangle to the opposite with the left mouse button depressed.

### To quality control barcode breaks

When preparing to use barcode breaks, checking the following items will help to make the scanning process go more smoothly:

# Check paper, scanner settings, and barcode values

Item	Description
Paper	CloudNine recommends using a light colored paper, e.g., light yellow or light blue paper. Dark paper decreases the contrast between the bars in the barcode and the paper's background causing detection of the barcode to become more difficult. A Laser Jet printer should be used to create a sharper barcode font. Photocopies of barcodes may result in "fuzzy" barcodes, which can be difficult to read. Also, if the barcode sheets are too badly wrinkled, they may become unreadable as well.
Scanner contrast and brightness	<ul> <li>Adjusting the contrast and/or brightness of the scanner may be required to produce a usable scan. If LAW appears to be detecting barcodes sporadically, this adjustment will likely resolve the problem.</li> <li>1. On the Scan menu, click Scanner Settings.</li> <li>2. Increase or decrease the contrast or brightness of the scanner.</li> <li>3. Test the new settings.</li> <li>4. Repeat as necessary to find the optimal setting for the scanner.</li> </ul>
Scanner resolution (DPI)	The lower the DPI, the lower the quality of the scanned image. A scan resolution of less than 200 DPI can cause barcodes to be unreadable.
Expected barcode values	<ul> <li>Verify that the value on the barcode matches the value registered in CloudNine<sup>™</sup> LAW.</li> <li>On the <b>Tools</b> menu, click <b>Options</b> and then click the <b>Imaging</b> tab.</li> <li>The value on the barcode must match the value in the <b>Doc</b> field to be considered an actual document break sheet.</li> </ul>

Item	Description
	• If these values do not match, the barcode sheet will be imported as a normal page in a document.

### Verify scan options

- 1. On the Scan menu, click Scan Options.
- 2. Verify the following options:
  - Detect Barcode Breaks should be checked.
  - **Single Page** should not be checked. If it is checked, each new page becomes its own document.
  - Auto-Deskew may need to be checked.
  - **Noise Removal** should not be checked. This feature may ruin the image of the barcode when enabled.

## Verify scan region

- 1. Select an image.
- 2. On the **Tools** menu, click **Barcodes**, and then click **Display Scan Region**.
- 3. Compare the selected scan region to the actual position of barcodes on pages.
- 4. Modify the region as needed.

## Check for conflicts in the scan region override settings

- 1. On the **Tools** menu, click **Options**, and then click the **Imaging** tab.
- 2. Check the following settings.
  - Consider using **Dilate scan region** if barcodes are not being recognized due to poor print quality.
  - Consider using **Scan entire page** if barcode location is inconsistent between pages.
  - Consider using **Use thorough scan** if barcodes are not being recognized due to poor print quality.

Using all three of these settings will override the Scan Region configured in the previous step and cause the entire page to be scanned. Use only the settings that you need.

## Verify that actual barcode readings match expected values

Run this test if a barcode image is already present. This test may also reveal an unexpected value of the barcode which could cause problems.

• On the **Tools** menu, click **Barcodes**, and then click **Detect Barcode**.

The current document is scanned.

The value of the barcode is displayed if it can be read and a value can be found.

## **Consider whether to split documents**

If the scanner is able to scan all the barcodes but does not detect them then consider splitting the documents based on the barcode images.

• Right-click the image, select **Split Document** and then click **Barcode break sheets**.

### Adjusting Scanner Settings

Scanner settings are those properties that control the operation of the scanner directly. Before you can configure scanner settings you must add a scanner. For more information on adding a scanner, see <u>Selecting a Scanner</u>.

### To configure scanner settings

1. On the **Scan** menu, click **Scanner Settings**. The **Scanner Settings** dialog box appears. The availability of specific settings will vary, depending on the scanner model.

Scanner Settings		
Mode: Black and White Dither: None Dots per inch: 300	Brightness Manual Automatic 128 Darken Normal Lighten	OK Default Cancel
Page Size: Letter - 8.5 x 11 in Region: Front and Back Fujitsu fi-4120C2 and 4220C2 fi4120C2 Version 1.1.10407.6004	Contrast Manual O Automatic	Area More

- Configure scanning settings as needed. Some important settings are described as follows:
  - Scan Area The scan area can be further adjusted by selecting the Area button. A Scan Area dialog will be displayed that allows users to fine-tune the scan area for the current page size. The scan area dialog allows users to set an X and Y offset for the page as well as a custom height and width. This custom area applies only to the current page size. The custom area for each page size is retained between sessions, so users will only have to customize a scan area once for each page size. Setting a custom scan area may be necessary with some scanner models that frequently exhibit a black border around scanned images. Because the black border is not even on all sides, it cannot be adequately removed with black-border removal and must be removed by adjusting the scan area.

<u>U</u> nits:	Inches 🗸
⊠ Offset:	0.0
Y Offset:	0.0
<u>W</u> idth:	8.48
Length:	11.0

- Scan brightness Scan brightness can be adjusted in the Brightness section of the Scanner Settings dialog box. Alternatively, the following shortcut keys may be used:
  - Press ALT+UP ARROW to increase brightness by 32 points.
  - Press ALT+DOWN ARROW to decrease brightness by 32 points.

Pressing either of these hot keys will cause the scanner settings to pop up for visual inspection and fine-tuning of the new brightness. When the dialog appears, focus will be placed on the brightness setting so that it can be quickly adjusted by holding the CTRL key while pressing LEFT ARROW or RIGHT ARROW.

• Scanner-specific settings - To display any special settings for your particular scanner, select the More button from the Scanner Settings dialog. Available settings vary depending on the scanner.

### Configuring Scan Options

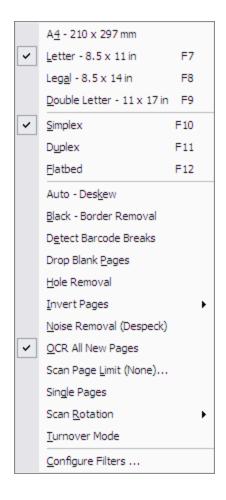
In addition to the standard <u>scanner settings</u>, CloudNine<sup>™</sup> LAW provides several scan options to help improve scanning efficiency.

The scan options can be toggled by selecting the desired option from the **Scan** > **Scan Options** menu. The scan options menu can also be displayed by right-clicking on any of the scanner settings displayed in the scanner status bar, located in the lower right-hand corner of main form.

Scan Profile 1	etter Size - 8.5 x 11 in	300 dpi	Simplex	OCR(Y)	Rotation(0)	Drop Blanks(N)	Single-Page(N)
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### The scanner status bar

The scan settings displayed on the status bar are some of the most frequently used settings and can be toggled by double-clicking the desired setting.



#### Scan menu options

The options available in the Scan menu are described as follows:

• Page Size

The Page Size setting provides a quick alternative to selecting the page size from the Scanner Settings dialog. This option allows users to toggle between the four most popular page sizes: Letter (<F7>), Legal (<F8>), Double Letter (<F9>), and A4.

### Scan Mode

The Scan Mode controls how the scanner will scan documents.

Simplex is used to scan single-sided documents and Duplex is for double-sided documents.

Flatbed is used to scan a page from the glass bed; although, if pages are in the document feeder, it defaults to Simplex and scans a single page from the feeder. If the scanner does not support duplex scanning, use the Turnover Mode option (see below) to scan double-sided documents.

- To select Simplex press F10.
- To select Duplex press F11.
- To select Flatbed press F12.

#### Auto-Deskew

The Auto-Deskew scan option will straighten documents as they are scanned. The deskew filter can also be applied to multiple documents during Batch Processing and to individual documents (see <u>Page-level Cleanup</u>).

#### Black-Border Removal

The Black-Border Removal scan option will remove black edges from all newly scanned images. This filter will only pick up even black edges. If the black edge is uneven or slanted down the page, it will not be dropped. These borders are a result of the scanner model being used and the scan area will have to be adjusted in order to remove them. The scan area can be adjusted from the <u>Scanner Settings</u> dialog. Black borders left on pages can prevent LAW from recognizing blank pages, so this filter should be selected if using the Drop Blank Pages scan option. The black-border removal filter can also be applied to multiple documents during Batch Processing.

### • Detect Barcode Breaks

The Detect Barcode Breaks setting allows users to scan multiple documents in a single batch. Barcode pages can be used to determine both document- and folder-level breaks while scanning. The settings for the break sheets can be specified from the Imaging tab of the Options form. Images with the default barcode settings can be found in the installation directory for CloudNine<sup>™</sup> LAW. These images can be opened with any image viewer and printed if users need to prepare a scan job with break sheets. Light-colored paper is recommended when printing barcode sheets (e.g., white, light blue, light yellow, or light green). LAW relies on the contrast between the bars in the barcode and the background color of the paper for detecting the barcode value. Scanner brightness or contrast (Scan > Scanner Settings) may require adjustment if LAW is having a difficult time recognizing the barcodes. See <u>Using Barcodes</u> for more information about barcodes.

### Drop Blank Pages

The Drop Blank Pages setting determines whether or not to disregard pages that have a very low percentage of text or graphics (possibly blank pages attached to a document). If this option is set, pages with very low pixel ratios will not be saved. If this option is not set, all pages scanned will be saved. This feature can be extremely useful as it allows users to combine both single- and double-sided documents in a single batch. Blank backsides of all single-sided documents will be dropped. The backsides of the double-sided documents containing text or images will be retained.

### Hole Removal

The Hole Removal setting removes afterimages of standard size holes (1/4" - 5/16") left from scanning pages that were hole punched, and can be used to perform quality control on images batch processed for hole removal. Hole removal can be done for RAW Image and scanned documents, and documents imported in ED Loader and converted to TIFF before hole removal. The letters o and e and zeros, are ignored by the hole removal process.

You can also adjust the size of the image border size that will be scanned for hole removal.

There are two ways to configure the size of borders for hole removal on images:

• In the Scan Toolbar select the Hole Removal check box and then click Configure.

Or

• Open the Configure Scan Filters dialog box (Scan > Scan Options > Configure Filters.) Add Hole Removal to the Selected Filters list, select Hole Removal and then click Configure.

#### • Invert Pages

The Invert Pages setting allows users to invert (rotate 180 degrees) odd or even pages of a document. This feature is used for double-sided documents that are printed with opposite orientations on the front and back.

### Noise Removal (Despeck)

The Noise Removal setting allows users to apply a filter to reduce the amount of random dots and specks that appear on the scanned image. OCR results may improve if Noise Removal is performed on a document before converting it to text.

#### OCR All New Pages

The OCR All New Pages setting determines whether or not all new pages being scanned will be flagged for OCR. LAW allows users to flag certain pages for OCR to help increase OCR speed and efficiency. Pages with graphs and tables or handwriting are not good OCR candidates and may negatively impact OCR performance. See the <u>Flagging Documents/Pages for OCR</u> section for information on flagging pages after they have been scanned.

### Scan Rotation

The Scan Rotation setting can be used to rotate pages as they are scanned. Images can be rotated 90, 180, or 270 degrees. Scanning documents in landscape mode may increase the scanner throughput and help prevent paper jams. If using this feature to scan landscape, the scanner must support double-letter page size in order to capture the full height of the document.

## • Single Pages

The Single Pages setting instructs LAW to save all pages in a batch as one-page documents. This can be used to scan a large group of single-page documents in one batch, saving a great deal of time.

### Turnover Mode

The Turnover Mode setting can be used to scan double-sided documents without a duplex scanner. If this option is enabled, LAW will prompt to flip the document and continue scanning after the front side of a double-sided document has been scanned. LAW then rebuilds the document in the proper order.

If this option is enabled, the "Detect Barcode Breaks" setting will be ignored

because the document must be flipped after the front side has been scanned.

## • Scan Page Limit

The Scan Page Limit feature can be used to specify a page limit for the number of pages scanned per document. This feature can be very useful for scanning checks or note cards, for example.

## • Configure Filters

This option allows advanced users to modify the default settings for the following filters:

- Black Border Removal
- Drop Blank Pages
- Auto Deskew
- Noise Removal
- Hole Removal
- Detect Barcode Breaks
- ☑ These settings should only be modified if the default settings are not working or causing problems.

### **Configuring Imaging Options**

Imaging options will control the format used to save images when scanning and the settings used for barcode break sheets. (See the <u>Using Barcodes</u> section for additional details.)

Options					
Imaging	Indexing	Notifications	Numbering	OCR	Preferences
Scanne	r Output		Barcode	Breaks	
Color Binar	Format y	~	Folder	98765432	21
File T			Doc	12345678	3901
	(*.TIF) ression	•	Attach	ATT-111	
	T Group 4	•	Ignore	ABCDE	
Stora	ge Schema:			ate scan re	
	Serialized Multipage			an entire p thorough	-
				<u>-</u>	
				OK	Cancel

## To configure imaging options

- 1. On the **Tools** menu, select **Options**, and then click **Imaging**.
- 2. Configure imaging options as needed:
  - Scanner Output Color Format

This setting is for display purposes only; it may not be modified from this form. This setting identifies the color format selected by the scanner and determines which file types are available. To change the color format displayed, users must change the color mode via <u>Scanner Settings</u>.

• File Type

The File Type setting determines what type of format, or packaging, is used to save newly scanned images. Common file types include Adobe (\*.pdf), Bitmaps (\*.bmp),

Calera (\*.pda), Fax (\*.dcx), JBIG (\*.jbg), JPEG (\*.jpg), PaintBrush (\*.pcx), Portable Network Graphics (\*.png), and TIFF (\*.tif). The file types available are determined by the color format selected. For example, if Binary (Black & White) is the current color mode, JPEG is not available as a file type because it can only be used for True Color and 256-Level Grey images.

TIFF images (specifically CCITT Group 4) are accepted as the industry standard and are the recommended format for black & white images. Users can scan to PDF (a frequent request). However, certain features (e.g., endorsing images and OCR to a non-text format) will not be available to PDF images. If PDF images are required in the destination application, this conversion can be handled during the export process after the images have been endorsed and OCR'd by selecting the PDF Conversion export format or by choosing PDF as the Output Format (see Options tab).

## Compression

The Compression setting determines the type of compression used for the specified file type and is specifically determined by the file type and color format. CCITT Group 4 is the common compression for a TIFF image, although this compression is not available for non-bitonal images. If scanning color or grayscale images, we recommend Sequential JPEG as the compression type (TIFF as the File Type). It offers excellent compression for both color and grayscale images and can be used with multi-page images.

## Storage Schema

The Storage Schema setting determines how scanned documents are stored.

The Serialized option stores images as single-page images. For example, using this option, scanning a 5 page document stores each page as a separate file. The files are stored in the \$Image Archive folder located in the root case folder.

The Multipage option stores images as multiple pages in one file. For example, using this option, scanning a 5-page document stores one file with 5 pages. Files are stored within the case folder structure displayed in the folder view.

You can move pages in the thumbnails display.

## Barcode Breaks

Barcodes are used in scanning to establish barcode break settings. These settings allow users to specify custom values for barcode sheets that determine both document and folder breaks and control other aspects of the recognition process.

• To use these settings, the **Detect Barcode Breaks** scan option must be enabled.

See <u>Using Barcodes</u> for more information.

#### Using the Scan Toolbar

The Scan Toolbar provides quick access to all scan-related functions and settings. The Scan Toolbar also allows you to create scan profiles that can be used to quickly change between predefined settings for different document types, such as those for color photos, duplex documents, or single-sided black and white documents. All available scan settings can be saved with a scan profile.

Until the first scan profile is created, all scan settings will be saved to the "<Default>" scan profile. This profile will always exist and cannot be deleted. After one or more profiles are created, the designated scan profile will be stored at the case level, allowing you to retain case- or customer-specific scan settings. Changing cases will automatically restore the scan profile that was last used in the case.

Scan profiles are specific to a particular scanner model due to differences in the settings available for each scanner, for example, color modes, page size, and resolution. So although scan profiles can be shared between users if desired, they can only be shared by users on workstations with the same scanner model. A user or workstation with one scanner model will not be able to see shared profiles for a user or workstation with a different scanner model.

Scan Toolbar				
>				
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert •	Replace •
Scan Profile: <default>  New Edit Hide Settings &lt;&lt;</default>				
Scanner Settings	Color Mode:	Black and White		<b>~</b>
Contrast/Brightnes	s Resolution:	300		~
Filters	Page Size:	Letter Size - 8.5 x 1	11 in	~
Other	Scan Mode:	Simplex		~
				Configure

## Scan Toolbar features

Feature	Description
Task Bar	• <b>New Document</b> - Opens the Scan New dialog box for scanning new documents.
	• New Attachment - Manually adds the new document as an attachment to the last document in the current folder.
	<ul> <li>Append - Adds the pages to the end of the currently selected document.</li> </ul>
	• Insert - inserts pages or entire document

• Replace - replaces pages or entire document

For more information about scanning new documents, attachments or appending pages, see <u>Scanning</u>.

For more information about inserting pages and documents, see <u>Inserting Documents and Pages</u>.

Feature	Description
Scan Profile	• Scan Profile list - The existing scan profiles for the case. The selected scan profile determines the current scan settings.
	• <b>New button</b> - Opens the New Profile dialog box.
	• Edit button - Opens the Edit Profile dialog box.
Show Settings button	Expands the Scan Toolbar dialog box to display the scan settings tabs.
Hide Settings button	Hides the scan settings tabs in the Scan Toolbar dialog box.
Scanner Settings tab	<ul> <li>Color Mode - The Color Mode setting determines the color format to use when scanning documents. For example, Black and White or 24-bit color.</li> <li>Resolution - The Resolution setting determines the dots per inch.</li> </ul>
Scan Profile: Coeffult> w New Est	• <b>Page Size</b> - The Page Size setting provides a quick alternative to selecting the page size from the Scanner Settings dialog. This option allows users to toggle between the four most popular page sizes: Letter ( <f7>), Legal (<f8>), Double Letter (<f9>), and A4.</f9></f8></f7>
	<ul> <li>Scan Mode - The Scan Mode controls how the scanner will scan documents.</li> </ul>
	Simplex is used to scan single-sided documents and Duplex is for double-sided documents.
	Flatbed is used to scan a page from the glass bed; although, if pages are in the document feeder, it defaults to Simplex and scans a single page from the feeder. If the scanner does not support duplex scanning, use the Turnover Mode option on the Other tab to scan double-sided documents.
	• Advanced - Opens the Scanner Settings dialog box.
	For more information about these settings, see <u>Adjusting Scanner Settings</u> and <u>Configuring Scan</u> <u>Options</u> .
Scanner Output tab	• <b>File Type</b> - The File Type setting determines what type of format, or packaging, is used to save newly scanned images. Common file types include Adobe (*.pdf), Bitmaps (*.bmp), Calera (*.pda), Fax (*.dcx), JBIG (*.jbg), JPEG (*.jpg), PaintBrush (*.pcx), Portable Network Graphics (*.png), and TIFF (*.tif). The file types available are determined

#### Feature

Scan Toolbar				
>	Solution		1	2
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert	Replace
Scan Profile: <d< td=""><td>efault&gt;</td><td></td><td>Y New</td><td> Edit</td></d<>	efault>		Y New	Edit
Hide Settings <	<			
Scanner Settings				1
Scanner Output	File Type:	TIFF (*.TIF)		~
Contrast/Brightnes	S Compression:	CCITT Group 4		~
Filters	Storage Sche	ma- Serialized		~
Other	storage scrie	ma: Denoiced		
	Rotation:	None		~

### Description

by the color format selected. For example, if Binary (Black & White) is the current color mode, JPEG is not available as a file type because it can only be used for True Color and 256-Level Grey images.

TIFF images (specifically CCITT Group 4) are accepted as the industry standard and are the recommended format for black & white images. Users can scan to PDF (a frequent request). However, certain features (e.g., endorsing images and OCR to a non-text format) will not be available to PDF images. If PDF images are required in the destination application, this conversion can be handled during the export process after the images have been endorsed and OCR'd by selecting the PDF Conversion export format or by choosing PDF as the Output Format (see <u>Options tab</u>).

- **Compression** The Compression setting determines the type of compression used for the specified file type and is specifically determined by the file type and color format. CCITT Group 4 is the common compression for a TIFF image, although this compression is not available for non-bitonal images. If scanning color or grayscale images, we recommend Sequential JPEG as the compression type (TIFF as the File Type). It offers excellent compression for both color and grayscale images and can be used with multi-page images.
- Storage Schema The Storage Schema setting determines how scanned documents are stored. The Serialized option stores images as single-page images. For example, scanning a 5 page document stores each page as a separate file. The files are stored in the \$Image Archive folder located in the root case folder. The Multipage option stores images as multiple pages in one file. For example, scanning the same 5-page document stores one file with 5 pages. The files are stored within the case folder structure displayed in the folder view.

Note that records scanned using the Serialized Storage Schema can be moved in the thumbnails display.

• **Rotation** - The Rotation setting can be used to rotate pages as they are scanned. Images can be rotated 90, 180, or 270 degrees. Scanning documents in landscape mode may increase the scanner throughput and help prevent paper jams. If using this feature to scan landscape, the scanner

Feature	Description
	must support double-letter page size in order to capture the full height of the document.
	For more information about these settings, see <u>Configuring Imaging Options</u> .

#### **Contrast/Brightness tab**

ican Toolbar				
>	2	4		2
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert	Replace
Scan Profile: <d Hide Settings &lt;</d 	efault>		M Nev	Edit
Scanner Settings Scanner Output	Brightness:	٢	18	> 1001
Contrast/Bright	Contrast:	<		Auto
Other	_			

- **Brightness** The Brightness setting determines the brightness value applied to the scanned documents.
- **Contrast** The Contrast setting determines the optical density value applied to the scanned documents.

For more information about these settings, see <u>Adjusting Scanner Settings</u>.

riiter	Stab			
Scan Toolbar				
>	2		2	2
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert	Replace
Scan Profie: @efault> v New Edt Hide Settings <<				
Scanner Settings Scanner Output Contrast/Brightnes	Auto Deskew     Back Border Removal     Detect Berooke Presis     Drene Bark Pages			
Filters Other		Hole Removal   Noise Removal		
			[	Configure

- Auto Deskew The Auto-Deskew scan option will straighten documents as they are scanned. The deskew filter can also be applied to multiple documents during Batch Processing and to individual documents (see <u>Page-level Cleanup</u>).
- Black Border Removal The Black-Border Removal scan option will remove black edges from all newly scanned images. This filter will only pick up even black edges. If the black edge is uneven or slanted down the page, it will not be dropped. These borders are a result of the scanner model being used and the scan area will have to be adjusted in order to remove them. The scan area can be adjusted from the <u>Scanner Settings</u> dialog. Black borders left on pages can prevent LAW from recognizing blank pages, so this filter should be selected if using the Drop Blank Pages scan option. The black-border removal filter can also be applied to multiple documents during Batch Processing.
- Detect Barcode Breaks The Detect Barcode Breaks setting allows users to scan multiple documents in a single batch. Barcode pages can be used to determine both document- and folder-level breaks while scanning. The settings for the break sheets can be specified from the Imaging tab of the Options form. Images with the default barcode settings can be found in the installation directory

Feature	Description
	for CloudNine <sup>™</sup> LAW. These images can be opened with any image viewer and printed if users need to prepare a scan job with break sheets. Light-colored paper is recommended when printing barcode sheets (e.g., white, light blue, light yellow, or light green). LAW relies on the contrast between the bars in the barcode and the background color of the paper for detecting the barcode value. Scanner brightness or contrast (Scan > Scanner Settings) may require adjustment if LAW is having a difficult time recognizing the barcodes. See <u>Using Barcodes</u> for more information about barcodes.
	• <b>Drop Blank Pages</b> - The Drop Blank Pages setting determines whether or not to disregard pages that have a very low percentage of text or graphics (possibly blank pages attached to a document). If this option is set, pages with very low pixel ratios will not be saved. If this option is not set, all pages scanned will be saved. This feature can be extremely useful as it allows users to combine both single- and double-sided documents in a single batch. Blank backsides of all single-sided documents will be dropped. The backsides of the double-sided documents containing text or images will be retained.
	• Hole Removal - The Hole Removal setting removes afterimages of standard size holes (1/4" - 5/16") left from scanning pages that were hole punched, and can be used to perform quality control on images batch processed for hole removal. Hole removal can be done for RAW Image and scanned documents, and documents imported in ED Loader and converted to TIFF before hole removal. The letters o and e and zeros, are ignored by the hole removal process.
	There are two ways to configure the size of borders for hole removal on images:
	<ul> <li>In the Scan Toolbar select the Hole Removal check box and then click Configure.</li> <li>Or</li> </ul>
	<ul> <li>Open the Configure Scan Filters dialog box (Scan &gt; Scan Options &gt; Configure Filters.) Add Hole Removal to the Selected Filters list, select Hole Removal and then click Configure.</li> </ul>
	• Noise Removal - The Noise Removal setting allows users to apply a filter to reduce the amount of

Feature	Description
	random dots and specks that appear on the scanned image. OCR results may improve if Noise Removal is performed on a document before converting it to text.
	• <b>Configure</b> - This option allows advanced users to modify the default settings for the filters. To modify the settings for a filter, on the Filters tab, click the filter name, and then click the Configure button.
	For more information about these settings see, <u>Configuring Scan Options</u> .



>	2		2	2
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert	Replace
Scan Profile: <di< td=""><td>efault&gt;</td><td></td><td>New New</td><td>Edit</td></di<>	efault>		New New	Edit
Scanner Settings Scanner Output	Invert Pages:	None	~	
Contrast/Brightnes	s Scan Page Lin	Scan Page Limit: 0		
Filters				
Other	Single Pag	OCR Al New Pages Single Pages		
	Turnover	Mode		

- **Invert Pages** The Invert Pages setting allows users to invert (rotate 180 degrees) odd or even pages of a document. This feature is used for double-sided documents that are printed with opposite orientations on the front and back.
- Scan Page Limit The Scan Page Limit feature can be used to specify a page limit for the number of pages scanned per document. This feature can be very useful for scanning checks or note cards, for example.
- OCR All New Pages The OCR All New Pages setting determines whether or not all new pages being scanned will be flagged for OCR. LAW allows users to flag certain pages for OCR to help increase OCR speed and efficiency. Pages with graphs and tables or handwriting are not good OCR candidates and may negatively impact OCR performance. See the <u>Flagging Documents/Pages for OCR</u> section for information on flagging pages after they have been scanned.
- **Single Pages** The Single Pages setting instructs LAW to save all pages in a batch as one-page documents. This can be used to scan a large group of single-page documents in one batch, saving a great deal of time.
- **Turnover Mode** The Turnover Mode setting can be used to scan double-sided documents without a duplex scanner. If this option is enabled, LAW will prompt to flip the document and continue scanning after the front side of a double-sided document has been scanned. LAW then rebuilds the document in the proper order.

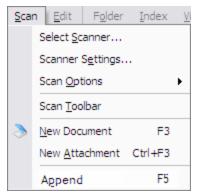
Feature	Description
	If this option is enabled, the "Detect Barcode Breaks" setting will be ignored because the document must be flipped after the front side has been scanned.
	For more information about these settings see,

### Configuring Scan Options.

### To open the Scan Toolbar

There are two ways to open the Scan Toolbar dialog box:

• On the Scan menu, click Scan Toolbar.



OR

• Double-click the scan profile name in the scanner status bar located at the bottom of the main LAW application window.

Note that if a scan profile has not been created the profile option is marked as <Default>. This is shown in the following graphic:

<Default> Letter - 8.5 x 11 in 300 dpi Simplex OCR(Y) Rotation(0) Drop Blanks(N) Single-Page(N)

If a custom scan profile is loaded, it is shown in place of <Default>. In the following graphic a profile named Scan Profile 1 is loaded.

	etter Size - 8.5 x 11 in 300 dpi Simplex OCR(Y) Rotation(0) Drop Blanks(N) Single-Page(N)						
Scan Profile 1	etter Size - 8.5 x 11 in	300 dpi	Simplex	OCR(Y)	Rotation(0)	Drop Blanks(N)	Single-Page(N)

To create a scan profile

1. On the **Scan** menu, click **Scan Toolbar**.

Clicking Scan Toolbar opens the Scan Toolbar dialog box.

Scan Toolbar					
>					
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert •	Replace •	
Scan Profile: <default>  New Edit Show Settings &gt;&gt;</default>					

2. Click the **New** button.

Clicking the New button opens the New Profile dialog box.

New Prof	ïle	
Name:	Scan Profile 1	
_		
Scope:	Shared (Available to all users)	~
Hot Key:	Ctrl + 4	~
	OK Cano	el

- 3. In the **Name** field, type the scan profile name.
- 4. In the **Scope** list, click one of the following:
  - Shared (Available to all users)
  - Local (Available to only you)
- 5. If you want to assign a keyboard shortcut to the scan profile, in the **Hot Key** list, click one of the available keyboard shortcuts.

When a keyboard shortcut is added to a scan profile, the shortcut is no longer available for selection.

6. Click **OK**.

Clicking **OK** creates the scan profile and closes the New Profile dialog box.

7. In the **Scan Toolbar** dialog box, click the **Show Settings** button.

Clicking the **Show Settings** button expands the **Scan Toolbar** dialog box to display all the scan settings.

Scan Toolbar				$\mathbf{X}$
>	Ð			2
New Document (F3)	New Attachment (Ctrl+F3)	Append (F5)	Insert •	Replace •
Scan Profile: <de< td=""><td>efault&gt;</td><td></td><td>V New.</td><td> Edit</td></de<>	efault>		V New.	Edit
Scanner Settings	Color Mode:	Black and White		<b>~</b>
Contrast/Brightnes	s Resolution:	300		~
Filters	Page Size:	Letter Size - 8.5 x 1	1 in	~
Other	Scan Mode:	Simplex		~
				Configure

8. Define the scan profile settings.

The scan profile settings are automatically saved when the **Scan Toolbar** is closed or another scan profile is selected in the **Scan Profile** list.

## To edit a scan profile

The Default and custom profiles can be edited, but the Default profile name, scope, and shortcut key settings cannot be modified.

1. On the Scan menu, click Scan Toolbar.

Clicking Scan Toolbar opens the Scan Toolbar dialog box.

2. In the **Scan Profile** list, click the profile you want to edit.

3. If you want to edit a profile's name, scope, or shortcut key, in the In the Scan Profile list, click the **Edit** button.

Clicking the **Edit** button opens the **Edit Profile** dialog box.

Edit Profi	le 🛛 🔀	
Name:	Scan Profile 1	
Scope:	Shared (Available to all users)	
Hot Key:	Ctrl + 4	
Delet	e OK Cancel	

- 4. Make the applicable edits, and then click **OK**.
- 5. In the **Scan Toolbar** dialog box, modify the applicable scan settings.

The scan profile settings are automatically saved when the **Scan Toolbar** is closed or another scan profile is selected in the **Scan Profile** list.

#### To delete a scan profile

Note the following when deleting scan profiles:

- A local profile can only be deleted by the user who created it.
- A shared profile can be deleted by any user. Deleting a shared profile deletes it for all users.
- 1. On the **Scan** menu, click **Scan Toolbar**.

Clicking **Scan Toolbar** opens the **Scan Toolbar** dialog box.

- 2. In the Scan Profile list, click the profile you want to delete.
- 3. Click the **Edit** button.

Clicking the Edit button opens the Edit Profile dialog box.

Edit Profi	le 🛛 🔀
Name:	Scan Profile 1
Scope:	Shared (Available to all users)
Hot Key:	Ctrl + 4
Delet	e OK Cancel

4. Click the **Delete** button, and then click **OK**.

The **Delete Profile** dialog box opens.

Delete P	Delete Profile			
	You are about to delete the [Scan Profile 1] profile.			
	This is a shared profile, deleting it will make it unavailable to other users.			
	Would you like to proceed anyway?			
	Yes No			

5. Click Yes.

The profile is deleted.

### Scanning

After you have selected and configured your scanner you are ready to begin scanning. All newly scanned documents are saved in the currently selected folder. Be sure to change the folder selection as needed.

### To add documents

- 1. From the main window, open a folder.
- 2. On the Scan menu, click New Document.
  - Or

• Press F3.

The **Scan New** dialog box opens. If this is the first page in the case then the **Starting Page ID** is blank, otherwise the next available Page ID is provided.

Scan New	
Starting Page ID ABC.000.000.1252	Begin
	<u>C</u> ancel

3. Add or edit the starting page ID and then click **Begin**.

All newly scanned documents are added to the end of the folder.

#### To resume scanning after scanner is empty

### To continue a scan batch using a delay-enabled scanner

If scanning from the document feeder, CloudNine<sup>™</sup> LAW scans until the feeder is empty. Some scanner models have a delay option that allows users to insert more pages after the feeder is empty and then to continue scanning in the same batch. This is helpful if scanning large documents that exceed the capacity of the feeder or multiple documents separated by barcode document break sheets.

• Consult your scanner documentation for information on using its delay feature.

### To continue a scan batch using a scanner without a delay feature

- 1. On the **Tools** menu, click **Options**.
- 2. Click the **Preferences** tab.
- 3. Select **Prompt to continue scanning when feeder is empty**.

You will be prompted to insert more pages when the feeder is empty.

### To add attachments

You can add attachments during or after scanning.

### To add an attachment manually

• On the Scan menu, select New Attachment.

Or

• Press CTRL+F3.

The new document is added as an attachment to the last document in the current folder.

- Attachments cannot be added at scan time to intermediate documents in a folder. If documents have been scanned out of order, you must:
  - 1. Scan the attachment as a normal document, where it will be place at the end of the folder.
  - 2. Move it behind the appropriate parent document and then manually attach it.

For more information on attaching existing documents, see the <u>Working with</u> <u>Attachments</u> section.

## To scan documents as attachments using break sheets

You use an **attachment barcode break sheet** during scanning to designate a document as an attachment. An attachment barcode break sheet is a special type of barcode break sheet that signifies that the document that follows is an attachment.

Note the following facts when using barcode break sheets:

- If using barcode break sheets to scan multiple documents, each attachments must be preceded by an attachment break sheet.
- The break sheet for attachments is named attach1.tif and can be found in the installation directory for CloudNine<sup>™</sup> LAW.
- A shortcut to this file (Attachment Break #1) can be found in the Break Sheets subfolder in the LAW program group.
- Documents preceded by an attachment break sheet will always be attached to the previous parent document. Therefore, to scan a document with three attachments, a standard document break sheet must precede the parent, and an attachment break sheet must precede each of the three attachments.
- After you scan an attachment, you can check that the attachment was itemized as an attachment by looking at the item number of the document. Attached documents appear indented in the document list to indicate that they are attached to the previous document. For example, in the following figure, item number -- 0002 is an attachment of item number 0001.

		ItemNo	ImgExt	Pages	Page Range
	3	0001	TIF	4	00020001
parent document	3	0002	TIF	3	00020004A
attachment	3	0003	TIF	1	00020005

### **To insert documents after scan time**

You can insert document that were missed at scan time. This feature is very important because, unless documents are specified by a query, the scan order determines the order of all processing functions, such as batch processing and exporting. The insert document function can be used to insert multiple documents if the "Detect Barcode Breaks" setting is enabled and the pages are separated by barcode break sheets.

- 1. On the **Edit** menu, click **Insert**.
- 2. Click one of the following:
  - Scanned Document
  - New Page(s)
  - Existing Page(s) and then follow the prompts to select one or more existing images to insert.

The inserted document will be placed above the currently selected document in the current folder.

✓ If multiple documents are selected, they will be imported in alphabetical order by filename. Also, the Insert Pages function works the same as the Append Pages in that it disables checks for barcode break sheets because it is designed to insert pages into the current document.

### To append pages

You can add one or more pages to the end of the currently selected document.

- 1. Select a document to which you want to add pages.
- 2. On the Scan menu click Append.

Or

• Press F5.

The new page(s) are added to the end of the selected document.

The Append Pages function is only intended to add pages to a single document and is not intended for batch scanning. Append Pages will not check for barcode break sheets, even if Detect Barcode Breaks is activated. If using break sheets, use the **Prompt to continue scanning...** setting if you want to continue adding pages to the current batch until it is complete. Otherwise, users must manually ensure that document integrity is maintained every time that a batch is broken down so that it fits into the auto-feeder.

## To replace pages and documents

You can replace pages within a document or replace an entire document.

# To replace pages

- 1. Select a document.
- 2. On the Edit menu, click Replace, and then click Page(s).

Or

• Press F6.

The new pages will replace the current page forward for as many new pages are scanned.

## To replace an entire document

- 1. Select a document.
- 2. On the Edit menu, click Replace, and then click Document.

Or

• Press CTRL+F6.

If replacing pages, both replace pages and document work the same as the append and insert page functions, disabling the detection of barcode breaks.

## To replace documents with file images

- 1. Select a document.
- 2. On the Edit menu, click Replace, and then click Image from File(s).

The entire document is replaced by the image file. Only one existing image may be selected when using this feature.

## Importing from Other Sources

LAW supports options for importing into a case: existing case files, load files in a variety of formats, raw images, and replacement images.

### Importing Cases and Load Files

You can import materials from existing CloudNine<sup>TM</sup> LAW cases and from load files generated by applications.

- ▲ Turbo Import cases are not eligible for importing (dii or opt) load files.
- ▲ Choose ED Loader enabled databases for case to case imports. Case to case importing is disabled for Turbo Import cases.

When the import completes the following conditions apply:

- All fields in the source case will be automatically created if they do not already exist.
- The path structure for the existing case will be re-created in the current case relative to the current folder.
- The image and native records, text, and index information from the source case will be copied into the current case. There is no danger of losing the data associated with the source case.
- If single-page images exist with no document breaks defined, then either a load file must be created in one of the supported formats or document boundaries must be created after they have been imported into the case.
- Imported images are stored in the same format as the original images: single-page will remain single-page and multi-page will remain multi-page.
- With the exception of Z-Print imports, all images imported via load file will be stored in the <case root>\\$Image Archive folder.

### ☐ To import a CloudNine<sup>™</sup> LAW case

You can import an existing case created in LAW versions 4 or 5 into a new or existing case.

- 1. With a case open, on the **File** menu, click **Import**, and then click **LAW Case**.
- 2. Browse to the case file and then click **Open**.
- ✓ You can import a LAW case that is not in the case list by selecting <Browse> and browsing to the case. When selected, the case is temporarily added to the case list.

- If you want to import documents within a case by tag, select Filter By Tag and then select the tag from the drop down menu. Select Include Parent/attachments if you want to include the parent document and attachments of tagged documents within the case.
- 4. Click **Import**.

The LAW Case Import dialog appears.

LAW Case Import		
Importing document 4 d	of 72	
	Pages: 678	
Elapsed: 00:00:32	Est. Time Left: 00:12:16	Cancel

If errors occur during import, the Import Status dialog appears with an error message. If this occurs, click **Yes** to open the Log Viewer and review the error log.

Import S	Status	
⚠	Records Imported: 15 The import process was completed with errors. See '\\7790A\Law50\Cases\DPB01\\$Logs\Import\2010-10-08_09'47'31'AM_LNGSEAL147790A.csv' for details. Would you like to view the error log now?	
	Yes No	

- 5. After import you can do one of the following:
  - If everything was imported successfully and the source case is no longer needed, you can continue working in the target case. The source case may be marked inactive or if necessary, deleted with the option to backup the case before deletion. For more information on deleting cases, see <u>Working with Existing Cases</u>.
  - If errors or warnings are generated during import you are recommended to open the Log Viewer. Under the Import tab, you can review issues with the import session. For more information on reviewing errors after import, see Reviewing Errors.

Note the following considerations when importing LAW case files:

- The DupStatus, \_DupID, and \_DupMethod fields are cleared for EDD records being imported into a new LAW case.
- User-defined page-level fields existing in the source case are not imported into the target case.

• Session databases are not copied from the source case folder to the target case folder. If you try to view logs in the Session Viewer in the target case that were generated by the source case, a database not found message results. You may still browse to the location of the databases from within the target case using the Session Viewer. Also, the logs associated with the source case are still viewable if you open the source case.

### **<u>To import a Doculex Imagebase</u>**

The Doculex import allows users to import images from a Doculex imagebase. A Doculex imagebase does not contain any index information so only page numbering will apply to the imported documents.

- 1. On the File menu, click Import, and then click Load File.
- 2. Browse to the load file (Doculex3.dbf or Doculex5.dbf)) and then click **Open**.

The path structure for the images will be re-created relative to the current folder in CloudNine<sup>™</sup> LAW. If importing multiple imagebases, creation of a separate folder for each volume is recommended as the folder structure will frequently be a sequential numeric format (e.g., \001, \002, etc.). If a separate folder for each volume is not created, images from different volumes in the same folder may occur. While this will not affect CloudNine<sup>™</sup> LAW, it can be confusing and interfere with processing order.

The Doculex import does not require the documents breaks to be defined in the database. Existing breaks can be overwritten with new ones defined by a range file. A range file is simply a delimited text file with two fields, BegDoc# and EndDoc#, which specify the ranges to use when rebuilding the documents. If no range file is specified, the document breaks defined in the Doculex imagebase are used.

#### To import an Opticon load file

- 1. On the File menu, click Import, and then click Load File.
- 2. Browse to the load file (\*.opt or \*.log)) and then click **Open**.

Text files that match the image file names found in the source directory are imported as OCR text.

If the Opticon load file has separate image and text folders, and the image and text folders are located at the same level as the load file or one level lower and the image files and text file names match except for the file extension, both folders will automatically be imported with the load file. The text file folder must be named "text". If the text folder is not named "text" or if the text files are not detected for images in the load file, the **Select Text Path** dialog opens.

	Select Text Path	x
	Current Path C:\Exports\Opticon\Vol002\Text_Files	
	EDA_Cases	
	<ul> <li>Exports</li> <li>Case_Acme</li> <li>Case_Bailey</li> <li>Enron Demo Case</li> </ul>	
	Vol001 Vol002 Vol003	E
	▲ JPRO     ▷	
Ŀ	Opticon	
	✓ Vol002 ▷ 001 ○ Text_Files	
Ŀ	fslrdr	
	IExp0.tmp IExp1.tmp	-
L	Accept Cano	el

3. Navigate to and click the text file folder, and then click the **Accept** button.

Clicking the **Accept** button closes the **Select Text Path** dialog box and the import finishes processing.

4. If there is no text files associated with the images, click **Cancel**.

Clicking **Cancel** closes the **Select Text Path** dialog box and the import finishes processing without capturing any text files.

# To import a Summation load file

The Summation import allows users to import images with document breaks defined by a Summation load file.

- 1. On the File menu, click Import, and then click Load File.
- 2. Browse to the load file (\*.dii)) and then click **Open**.
- 3. If prompted to include fields, to configure import of user-defined fields, click **Yes** and then specify fields to include and destination names to use, and then click **OK**.

If you wish to import a	field make sure the "Include" check b	ox is checked.	
120	with the name specified under the "I		" column
	ing field name, the Summation data v		
Fields in blue text are n	ew fields that will be created.		
Field types for existing	Law fields cannot be changed here.		
Source Name	Destination Name	Include	Туре
AUTHOR	AUTHOR	<b>~</b>	TEXT
DOCTYPE	DOCTYPE	<b>~</b>	TEXT
FOLDER	FOLDER		TEXT

When configuring options in the **Import Fields** dialog box, note the following:

- The **Source Name** column will list the fields contained within the load file.
- Fields listed in blue are those that do not already exist in the case.
- The **Destination Name** column displays the name of the field that will be created or the existing field name in the case.
- Both new and existing field names may be changed by double-clicking in the cell and typing a new name.
- To exclude a field, clear the check box in the **Include** column in the proper row.
- The **Type** field displays the field type for each field. The type can be changed for new fields only.
- Any text and image files referenced in the load file will be copied to their respective folders in the case. If you are importing an XML load file, any native files referenced in the load file will also be copied to their respective folders in the case. Native files are only imported if the load file is an XML load file.

 If the Link to source files in place when importing load files check box is selected on the Preferences tab in the Options dialog box (Tools menu > Options), the native, image, and text files associated with the native and image files are not copied into the case. Instead, LAW generates a link to the native, image, and text files in their current location. The TextFilePath field is populated with the full path to the linked text file associated with the native and image files.

The only exception to this is if there are multiple text files associated with a document, such as page level text files. If there are multiple text files associated with a document, the text files will be merged and copied into the LAW case into one of the following locations:

- If the document contains an image, the text will be assumed to be OCR text, so the merged text file will be copied to the OCR location.
- If the document does not contain an image, the text will be assumed to be extracted text, do the merged text file will be copied to the extracted text location.

The file is imported.

Note the following facts about importing Summation load files:

- The folder structure will be re-created relative to the current folder. Depending on the path notation in the load file, users may have to select the image path for the images.
- If the load file uses CD volume notation (@V), LAW scans for the CD drive letter that contains the images. If the images have been copied to a local drive from a CD, or if image directory notation (@I) has been used, you must specify the directory for images to be stored.
- OCR is imported if it exists with the images. During import, page-level OCR, consisting of one text file for each single-page image, is merged into one text file for the entire document. Any existing word list files (\*.ocr) with images are also imported.
- A Summation load file may contain index information for each document. This index information may or may not be imported, depending on the options set in the **Import Fields** dialog box.
- Summation load files do not contain page IDs or Bates numbers for every page. They do contain a beginning document number and an ending document number. During import, numbers are added to every page, based on the first page of the document, but this numbering scheme may not match the originals if gaps or changes exist in the numbering scheme within the document.

## To import an IPRO load file

1. On the File menu, click Import, and then click Load File.

2. Browse to the load file (\*.lfp) and then click **Open**.

The file is imported as OCR text.

If the IPRO load file has separate image and text folders, and the image and text folders are located at the same level as the load file or one level lower and the image files and text file names match except for the file extension, both folders will automatically be imported with the load file. The text file folder must be named "text". If the text folder is not named "text" or if the text files are not detected for images in the load file, the **Select Text Path** dialog opens.

🔁 Select Text Path	x
Current Path C:\Exports\Opticon\Vol002\Text_Files	
EDA     EDA_Cases     Exports     Case Armo	^
Case_Acme Case_Bailey Case_Bailey Case_Bailey Col001 Vol002	Ш
Vol003  Vol003  Vol001  Vol001  Vol001  Vol002	
b b 001 Text_Files fslrdr LExp0.tmp	
IExp1.tmp	el

3. Navigate to and click the text file folder, and then click the **Accept** button.

Clicking the **Accept** button closes the **Select Text Path** dialog box and the import finishes processing.

4. If there is no text files associated with the images, click **Cancel**.

Clicking **Cancel** closes the **Select Text Path** dialog box and the import finishes processing without capturing any text files.

#### To import an EDRM XML file

You can use EDRM XML 1.0 or EDRM XML 2.0 to import any combination of native, text, images, and metadata into an electronic discovery enabled LAW case.

- 1. On the File menu, click Import, and then click Load File.
- 2. Browse to the load file (\*.xml) and then click **Open**.
- ☑ When you are importing an EDRM XML file, you do not need to select the EDRM XML version. LAW automatically imports the EDRM XML file using the EDRM XML version associated with the EDRM XML file being imported.

The **Import Fields** dialog box appears.

💊 Import Fields			×	
If you wish to import a field make sure the "Include" check box is checked. The field will be created with the name specified under the "Destination Name" column If this matches an existing field name, the data will be imported into that field. Fields in blue text are new fields that will be created. Field types for existing Law fields cannot be changed here.				
Source Name	Destination Name	Include	Type 🔥	
#Author	Author		TEXT	
Attachmt	EDRM_Attachmt	Image: A start of the start	MEMO	
AttRange	EDRM_AttRange	Image: A start of the start	TEXT	
Author Org	Author Org	Image: A start of the start	MEMO	
Batesrng	Batesrng	Image: A start of the start	TEXT	
BegAttach	EDRM_BegAttach	Image: A start of the start	TEXT	
Condition	Condition	Image: A start of the start	MEMO	
DocDate	DocDate	Image: A start of the start	TEXT	
DocTitle	DocTitle		TEXT =	
DocType	DocType	Image: A start of the start	TEXT	
EndAttach	EDRM_EndAttach	Image: A start of the start	TEXT	
Folder	Folder	Image: A start of the start	TEXT	
FolderRng	FolderRng	Image: A start of the start	TEXT	
ID	ID		NUMERIC	
LocationURI	LocationURI	Image: A start of the start	MEMO	
MimeType	MimeType	Image: A start of the start	TEXT	
ParentID	ParentID	Image: A start of the start	TEXT	
PgCount	PgCount	Image: A start of the start	NUMERIC	
Recipient	Recipient	Image: A start of the start	MEMO	
Decipera	Decinera		MEMO	
Select All Clear All	]	ОК	Cancel	

3. Configure options as needed:

- To change a field name, double click it and then type the new name.
- To exclude a field, clear its check box in the **Include** column.
- To clear all fields, click Clear All.
- To select all fields, click Select All.
- To change the type of a new field, click the type and then select a new one. The type can be changed for new fields only.

When configuring options, note the following:

- The **Source Name** column lists fields found in the load file.
- Fields listed in blue are those that do not already exist in the case.
- The **Destination Name** column lists either the name of the field that will be created or the name of the existing field.
- Any native, text, and image files referenced in the load file will be copied to their respective folders in the case.
- If the Link to source files in place when importing load files check box is selected on the Preferences tab in the Options dialog box (Tools menu > Options), the native, image, and text files associated with the native and image files are not copied into the case. Instead, LAW generates a link to the native, image, and text files in their current location. The TextFilePath field is populated with the full path to the linked text file associated with the native and image files.

The only exception to this is if there are multiple text files associated with a document, such as page level text files. If there are multiple text files associated with a document, the text files will be merged and copied into the LAW case into one of the following locations:

- If the document contains an image, the text will be assumed to be OCR text, so the merged text file will be copied to the OCR location.
- If the document does not contain an image, the text will be assumed to be extracted text, do the merged text file will be copied to the extracted text location.
- 4. Click **OK**.
  - If an Add New Fields dialog box opens, click OK to add fields, or No to cancel the import.
  - If a message box appears that provides you with the option to view the error log, click **Yes** to view the error log or **No** to return to the main window.

#### To link instead of copy files during import

Rather than copying files into the LAW folder structure during import, you can choose to link to files in their current location. This option applies to Doculex, EDRM, IPRO, Opticon, and Summation load file imports.

- 1. On **Tools** menu, click **Options**, and then click **Preferences**.
- 2. Select the Link to source files in place when importing load files check box.

Native files or images associated with the load files will not be copied to the case. Instead a link is created to their existing location.

Note the following details when considering options related to linking to originals versus importing:

- To simply import raw images without a load file or defined format, use the Import Raw Images function detailed in the <u>Importing Raw Images</u> section.
  - When the Link to source files in place when importing load files check box is selected on the Preferences tab in the Options dialog box (Tools menu > Options), the native, image, and text files associated with the native and image files are not copied into the case. Instead, LAW generates a link to the native, image, and text files in their current location. The TextFilePath field is populated with the full path to the linked text file associated with the native and image files.

The only exception to this is if there are multiple text files associated with a document, such as page level text files. If there are multiple text files associated with a document, the text files will be merged and copied into the LAW case into one of the following locations:

- If the document contains an image, the text will be assumed to be OCR text, so the merged text file will be copied to the OCR location.
- If the document does not contain an image, the text will be assumed to be extracted text, do the merged text file will be copied to the extracted text location.
- Modifying the images in CloudNine<sup>™</sup> LAW, for example, rotating or annotating the images, will result in the source file being modified. If the source image should not be altered, do not use the **Link to source files in place when importing load files** option.

## Importing Raw Images

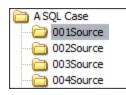
You can use the Import Raw Images utility to select image files individually or by the folder for import. When you import raw images, you can filter the file type for import, as for example, to select all image file types, or restrict import to TIFF files. When raw images are imported, the folder structure is created relative to the currently selected folder in the case. Ensure that the desired folder is selected prior to import.

▲ Import Raw Images is not recommended for importing PDF files. Instead it is recommended that you use Turbo Import or ED Loader to import PDF files. PDF import using Raw Images Import is sometimes successful but not supported. If you do

choose to use RAW Images Import on PDF files, check your results after import. Should problems occur, try using Turbo Import or ED Loader instead.

#### To import image files

1. From the main window, in the case folder structure, select the folder that will receive the imported files or folders.



2. On the **File** menu, click **Import** and then click **Raw Images**. The **Import Raw Images** dialog box appears.

😑 Import Raw	Images				_ 🗆 🔀
	Bluetooth Exc     Downloaded I     My Music     My Pictures     My Constraints     My Videos	Name A DPEG.JPG SomeJPEG SomeJPEG SomeJPEG SomeJPEG	GFile 1. JPG GFile 2. JPG GFile 3. JPG	Size 16 KB 16 KB 16 KB 16 KB 16 KB	Type JPEG Image JPEG Image JPEG Image JPEG Image JPEG Image
<	>	<			>
Include subfo	lders	File filter:	JPEG (*.JPG	)	
Clear All	Options		Ве	gin	Cancel
5 file(s)		78.3 K	В		

- 3. Browse to the folder containing images and then select:
  - Individual files.

Or

- Any folder and then, if necessary select **Include subfolders**. This option selects folders and any subfolders for import.
- 4. Select a file filter as necessary. For example, to import only JPEG files and no other file types, select **JPEG (\*.JPG)**.
- 5. Click **Options** and then select import options as necessary. When finished selecting options click **OK**. For more information on import options, see the **Import Options** section in this topic.
- 6. Click **Begin**. The **Import Status** message box reports the number of items imported.

Import S	Status 🛛 🔀
٩	The import process was successfully completed. Total Docs: 5 Total Pages: 5 Elapsed time: 00:00:01
	ОК

- 7. Click **OK**.
- To import images with a supported database or load file, use the image import functions described in the <u>Importing Cases and Load Files</u> section.

## **<u>To configure import options</u>**

- 1. From the CloudNine<sup>™</sup> LAW main window, on the **File** menu, click **Import** and then click **Raw Images**.
- 2. Click **Options**.

Import Options	
General Settings  Convert images to binary (B&W)  Determine document breaks  On blank pages On blank pages On barcodes  Nore  Nore	<ul> <li>Folder Structure</li> <li>Mirror original structure</li> <li>Auto-increment folder</li> <li>File limit</li> <li>Data Options</li> <li>Store original filename</li> <li>OrigFilename</li> <li>Store original location</li> <li>OrigLocation</li> </ul>
	OK Cancel

3. Configure import options as needed and then click **OK**. These are described as follows:

Option	Description
Convert images to binary (B&W)	Force all images to be converted to black and white during the import process.
Determine document breaks	1 / 1 5
	To specify blank pages or barcode breaks
	1. Click the <b>More</b> button.
	<ol><li>Select one of the following sensitivity options for the blank page filter:</li></ol>
	<ul> <li>Pristine White. Recommended for all white documents and for digitally converted documents.</li> </ul>
	• <b>Dirty White</b> . Recommended for scanned documents, especially those that contain a small amount of speckles, creases, or folds.
	Or
	<ul> <li>If barcode break sheets are selected, click More and then configure values breaks used in the source documents. Each time a barcode with the specified Barcode Value is detected, a new document will be created.</li> </ul>
	<ul> <li>To assign the incoming barcode value to a field value in CloudNine<sup>™</sup> LAW, select Capture barcode values and then select the first field to receive values.</li> </ul>
	Barcode Settings
	Barcode Value DOCBREAK More
	Capture barcode values First field to receive values: DocID Cancel
	<ul> <li>If necessary you can configure LAW further to recognize barcode symbologies, barcode orientation, or the region on pages where existing barcodes are positioned, click More again and then</li> </ul>

Option	Description
	configure the properties on the <b>Barcode Detection</b> and <b>Region</b> <b>Properties</b> tabs, as needed.
	Configure Properties         Barcode Detection       Region Properties         Symbologies to check         Interleaved 2/5       UPC-A         Code 39       EAN-8         Code 128       Code 93         CODABAR       UPC-E         Orientation       Minimum Height
	Vertical Diagonal 1/2" OK Cancel Apply Help Configure Properties
	Barcode Detection Region Properties
	Top 0" Width 0" Height 0"
	Use Region
	OK Cancel Apply Help

Capture barcode values

Capture additional barcode values on the break sheet and place the values into index fields for the newly created document.

For example, a barcode break sheet image contains three barcode values: DOCBREAK, MEMO, and ABC0001. If two index fields are created, the "MEMO" and "ABC0001" values can be stored with the newly created document. In this example, the DocType field has been selected to store the first "non-document break" barcode value ("MEMO"). Then, the next barcode value detected on this sheet will be placed in the next index field immediately following the DocType field as listed under the Index tab on the main LAW window.

Option	Description
	This feature does not currently support barcode breaks that indicate folders or attachments.
Include OCR	Import text files (*.txt, *.doc, *.wpd, *.htm) associated with images.
Link to images in place	Create links to selected images instead of creating copies of the files into the case. This feature can help to conserve storage space.
Remove originals	Remove original images after import. This feature is useful if the import process is canceled or interrupted. You can resume at a later time without re-importing any of the same images.
	This setting has no effect if the images are on a read-only source (e.g., CD-ROM).
Use	Numbers incoming images according to their filenames.
filename as BegDoc#	This feature can be useful when images have already been named according by document number.
	However, if the documents are multi-page images and have been named sequentially (e.g., AB0001.tif, AB0002.tif, etc.), numbering them in this manner will cause duplicate page IDs.
	<b>Use Numeric Suffixes</b> names the first page of each document according to the filename and names the remaining pages with a numeric suffix.
	The default setting (*.###) forces a suffix padded with three digits, separated by a period (e.g., AB0001, AB0001.002, AB0001.003, etc.). The separator character can be modified or omitted and the number of pad digits can be adjusted with the format string.
Mirror original structure	Rebuilds the original folder structure relative to the topmost selected folder(s). The selected images will then be imported into the currently selected folder in the folder list window.
Auto- increment folder	Stores incoming images in the current folder until a specified number of files specified in the <b>File Limit</b> setting has been reached. After the file limit is reached, LAW creates a new folder at the same level as the current folder and stores new images there.
	LAW does not auto-increment the root image folder. If this setting is selected, at least one folder must exist under the root folder.
Store original filename	Store the filenames of the imported images in an index field.

# **Option** Description

Store Store the path of the imported images in an index field. If the same field is used for the filename and location, the full path of the images (path and filename) will be stored in the specified field.

# Import filter options

The **Import Raw Images** utility provides the following file filter options:

- ADOBE (\*.pdf) Note: importing PDF files using the Raw Images Import function is not supported. Instead use ED Loader to import PDF files.
- All Files (\*.\*)
- All Image Files
- CALS Files (\*.cal)
- Compuserve (\*.gif)
- FAX (\*.dcx)
- JBIG Files (\*.jbg)
- JPEG (\*.jpg)
- JPEG 2000 (\*.jp2)
- MO:DCA Files (\*.mda)
- Paintbrush (\*.pcx)
- Plexus TIFF (\*.tif)
- Portable Network Graphics (\*.png)
- TIFF (\*.tif)
- Windows Bitmap (\*.bmp)

# Importing Replacement Images

You can use a load file to replace images already in a case with images that may have been redacted or altered in some other way by an external application.

# **Import considerations**

Note the following considerations before you replace existing images using a load file:

# Load file considerations

• The load file must contain a document number for each replacement image that corresponds with the BegDoc# field or the DocID field of the original document. Note that OCR text associated with the load file is not imported. If a file listed in the load

file cannot be found, the import operation skips the file and continues loading the next listed file.

• To avoid the extra overhead of merging or splitting images while performing the import into the case, it is recommended to produce the load file in the same storage format as the images contained in the case.

## **Folder structures**

• The import process maintains the folder structure of the destination image. So if a serialized load file is imported into a case containing multi page images only, those images will remain as multi page images after the batch image replacement has completed.

### **Backup of originals**

• You have the option to keep renamed copies of the originals or to delete the originals. If you keep the original files, they are renamed using the following scheme:

<originalfilename> v01<.image extension>

For example, **SomeExampleImage.opt** is renamed as **SomeExampleImage\_V01.opt**.

### Switching the file type

• CloudNine<sup>™</sup> LAW supports the replacement of images with a different image file type. So importing a single page JPG image will overwrite the single page TIFF image in the case.

## To import replacement images

- 1. From the main window, on the **File** menu, click **Import** and then click **Image Replacement Load File**.
- 2. In the **Select Image Replacement Load File** dialog box, select a supported load file.

The **Replace Existing Images** dialog box appears.

Replace Existing Images
Source File:
C:\Documents and Settings\Desktop\VOL001.opt Browse
[Import Mode
<ul> <li>Retain copy of original image</li> </ul>
<ul> <li>Replace existing images (permanent)</li> </ul>
Import Options
Reset OCR flags for replaced images
Tag replaced images
<create field="" new=""></create>
OK Cancel

- 3. Configure options as needed. For more information, see the **Image replacement options** section in this topic.
- 4. Click **OK**.

When import completes a summary report appears.

## Image replacement options

You can select from among the following options when importing replacement images:

• Source File

These types of load files are supported:

- IPro .lfp
- Opticon .log or .opt
- Import Mode

The following import modes are provided:

- **Retain copy of original image.** Default option. Copies of the original documents are kept.
- **Replace existing images (permanent).** Original images are permanently deleted.
- Import Options
  - **Reset OCR flags for replaced images.** Sets the OCR flag of each page to **Y** and then refreshes the OCR status of the document. This option helps you to run OCR again on the replaced documents if necessary.

• **Tag replaced images.** This option allows you to set a selected Tag (Boolean) field to **checked** for each document that receives a replaced image. This option can help you to more easily create a query that returns all of the affected documents. You can also use this option to define a new tag before you apply it to the images. Select **<Create New Field...>** to add a Tag (Boolean) field to the case without having to open the **Modify Fields** dialog box.

# Populating the \_GUID Field

The \_GUID field was added to LAW version 6.9.x. The \_GUID field is automatically populated with the globally unique identifier (GUID) for each document being imported into LAW using the ED Loader, Turbo Import, LAW case, or load file import. If a document doesn't have an existing GUID in the \_GUID field, LAW will generate one and add it to the \_GUID field.

During ED Loader imports and Turbo Imports, each file is automatically assigned a unique GUID.

During load file and LAW case imports, if the load file or case contains the GUID field and it is populated for a file, the GUID field will be populated with the existing GUID value. If the GUID field does not exist or is not populated for a file, a unique GUID is automatically assigned to the file.

For documents imported into LAW before version 6.9.x, or imported into LAW using a different type of import, you can generate GUIDs for the documents using the Generate document GUIDs function on the Tools menu on the main form. When you run the Generate document GUIDs function, LAW generates a GUID for any document in the case that does not have a GUID assigned to it in the \_GUID field.

GUID values in the \_GUID field cannot be modified.

For more information about the \_GUID field, see Field Descriptions - LAW.

## To manually generate GUIDs

1. From the main form on the **Tools** menu, click **Generate document GUIDs**.

Clicking **Generate document GUIDs** starts the GUID generation process.

Once the GUIDs are created for the documents in the case and the \_GUID field is populated with the new GUIDs, the **Document GUID Update Status** dialog box

opens. If the GUIDS were successfully created, the **Document GUID Update Status** dialog box indicates the number of documents updated and how long the process ran.

Document	GUID Update Status	×
0	Document GUIDs were su Documents Updated: Elapsed Time:	ccessfully updated. 3,649 00:00:02
		ОК

2. Click **OK** to close the dialog box.

# File Counts and File Sizing in LAW vs Explore

The only fundamental difference in the way CloudNine<sup>™</sup> LAW and CloudNine<sup>™</sup> Explore calculate file counts and file sizes is in the way they handle archives (including mailstores).

Archives (such as ZIP, 7Z, RAR, and PST files) consist of a container and the files collected within the container.

Anatomy of an archive					
ZIP File Word document Excel file JPEG A JPEG B	container				

CloudNine<sup>™</sup> Explore does not count the container when it counts files and file sizes.

```
EDA archive count and sizing

★ ZIP File – (★ 32 KB)

✓ Word file – 20 KB

✓ Excel file – 15 KB

✓ JPEG A – 30 KB

✓ JPEG B – 10 KB

Total Count = 4

Total size = 75 KB
```

CloudNine<sup>™</sup> LAW calculates total counts and total file sizes in one of two ways depending on the selections you make for the Archives settings in Electronic Discovery Loader (ED Loader).

If The following methods assume that you have selected Enable Archive Extraction so that CloudNine<sup>™</sup> LAW will extract the contents of supported archive file types.

LAW Electronic Discov <u>File</u> <u>Edit</u> <u>View</u> <u>Tools</u>		×
DeltaZ4ED		
Sources Settings		
Categories Archives Compound Documents Deduplication E-Mail Exclusions File Types General Metadata NIST(NSRL) Filter Output Password Post Import Actions Text Extraction	Archives            □ Enable Archive Extraction             □ Treat archive as attachment containers (create records for archive and attach archive contents)             □ Include embedded archive (create records for nested or attached archives)             □ Include archive source files             □ Use nested filenames for items extracted from archive	
Lock Settings		
Set As Default		
Version: 7.4.49	< Back Next > Start	Cancel

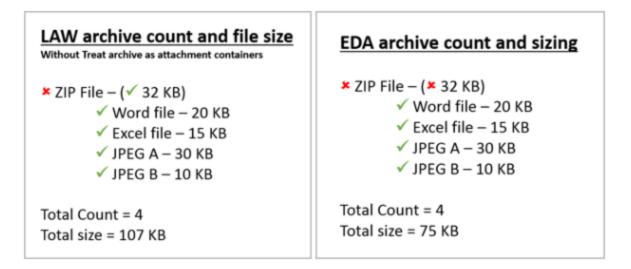
# Do not count as containers

If you leave the Treat archive as attachment containers check box cleared, CloudNine<sup>TM</sup> LAW file counting behavior is the same as CloudNine<sup>TM</sup> Explore. It does not count the archive file when it calculates the total number of files.

However, it will still count the container when calculating total file size.

✓ CloudNine<sup>™</sup> LAW will always take the container file size into account regardless of your selection for the Treat archive as attachment containers check box.

This means that while the total file count in CloudNine<sup>™</sup> Explore should match the total file count in CloudNine<sup>™</sup> LAW, there will be a difference in the total file size because CloudNine<sup>™</sup> LAW is including the archive files in the calculations.



# **Count containers**

If you select the **Treat archive as attachment containers** check box, CloudNine<sup>™</sup> LAW counts the archive file when it calculates the total number of files.

LAW archive count and file size With Treat archive as attachment containers	EDA archive count and sizing
<ul> <li>✓ ZIP File – (✓ 32 KB)</li> <li>✓ Word file – 20 KB</li> <li>✓ Excel file – 15 KB</li> <li>✓ JPEG A – 30 KB</li> <li>✓ JPEG B – 10 KB</li> </ul>	<ul> <li>× ZIP File – (× 32 KB)</li> <li>✓ Word file – 20 KB</li> <li>✓ Excel file – 15 KB</li> <li>✓ JPEG A – 30 KB</li> <li>✓ JPEG B – 10 KB</li> </ul>
Total Count = 5 Total size = 107 KB	Total Count = 4 Total size = 75 KB

# Supported File Types

A full list of supported file types can be found below or in this <u>Supported Import File Types</u> document. It contains the complete list of file types that both LAW and CloudNine<sup>™</sup> CloudNine<sup>™</sup> Explore can identify when you import the files. "Identify" means the file will be assigned a file ID and description in the metadata fields and the File Type Filter in CloudNine<sup>™</sup> Explore. The type and quantity of metadata that can be extracted from a document is determined by its file identification.

If a file type is not included in this list of supported file types, a file can still be imported into and exported from LAW and CloudNine<sup>™</sup> Explore, but the files will not be assigned a file ID or description, and metadata may not be extracted.

This document has been updated with a complete list of recognized files types along with what we do with the files – extract metadata and/or content, eligible for OCR, or treated as container files.

ID	Description	File Extensions	ct	Extra ct Conte nt	OCR	ls a Conta iner?
1	Disk Directory					
	Disk Volume Label					
3	Text File	TXT, DOC, INI, INF, ASC, TEXT		Y		
	Graphics Interchange Format	GIF, GIFF			Y	
	MS Windows Bitmap	BMP, DIB, SYS, RLE, BIN, VGA, RLn			Y	
	Amiga Interchange File Format Image	LBM, IFF, ILM, BBM, ILBM, BLK				
7	MS Paint Bitmap	MSP				
	AutoDesk Animator Flic	FLI, FLC, FII				
9	GEM VDI Paint Image	IMG, GEM				
	PC Paint/Pictor Page Image	PIC, PICTOR, CLP				

	PC Paintbrush Bitmap	PCX, PCC		Y	
12F	PKZip Archive	ZIP, JAR, WMZ			Y
[	MacBinary (Mac Data + Resource Fork)	MAC			
	Creative Voice Sound	VOC			
15[	•	EXE, COM, SYS, OVL			
	Amiga SoundTracker Music	MOD, NST			
F	Macintosh Sound + Resource Fork (MacBinary)	SND, HCO			
	MS Windows Prefetch Cache	PF			
	Targa Bitmap Image	TGA, VDA, I?B, VST, TARGA, PIX, BPX, IVB		Y	
20F	PK Pak Archive	ARC, PAK			
21	Arj Archive	ARJ, A??, DSK			
22[	DOS Batch File	BAT, CMD	Y		
	Ad-Lib Composer Music	ROL			
	FerretSoft Cache				
	-	SND, IFF, LBM, 8SV, SVX, 8SVX			

26	AutoCAD Drawing	DWG, DWT		
27	Program Overlay	OVL, OVR, DVR, DRV, OVn, RSR		
28	BASIC Script/Source Code	BAS, CSC, VBS	Y	
29	CMS Organ Music	ORG		
30	DOS Program (Tiny)	COM, BIN, SYS		Y
31	Arts & Letters Editor Document	GED		
32	Crayola Art Image	IMP		
33	Crayola Image	ART		
34	Novell Message File	MSG, DAT		
	Larc Self Extracting Archive (COM)	СОМ		
36	LHarc Self Extracting Archive (COM)	COM, EXE		
37	Corel Draw Font/Symbols	WFN		
38	Corel Draw Raster (proprietary)	CDR		
	Creative Music File	CMF		

40	Cricket Graph Data	CGD		
41	Cricket Graph Graphics	CGG		
42	Cricket Graph Slide	CGT		
	Cross Talk for Windows PhoneBook	XWP		
	Gzip Unix Archive	GZ, Z, ?Z, ??Z, TAR		Y
45	MS Money Data	MNY, MN?		
46	Arc Archive	ARC		
	MS Compress Archive	??\$, ??_, ?_, IBT		
48	Diet Archive			
49	Hyper Archive	HYP		
50	LHarc Compressed Archive	LHA, LZH, LHn, LZn, LHD, LZS		
51	LU Archive	LBR		
52	Larc Archive	LZS, LZH		
53	MS Windows Help Contents Table	CNT		
54	Stunt Island Film	FLM		
55	Squeeze Archive	?Q?		
	Zoo Compressed Archive	ZOO		

57	Help File (General)	HLP, HSP, HLX		
	dBase III/III+/IV/FoxBas e+/FoxPro Database	DBF		
	dBase III+ Screen Format	FMT		
60	dBase III+ Form	FRM		
	dBase III+ Program File	PRG		
	Micrografx Designer Drawing	DRW, GRF		
63	Micrografx Picture	PIC		
64	Dr. Halo Font	FON		
	MS Query Database	DBF		
66	Dr. Halo Palette	PAL		
67	Dr. Halo Picture	PIC		
	MS Query Database Index	MDX		
	Lucas Arts Animation	NUT, SAN		
70	Lucas Arts Sound (SAD)	SAD		
71	Lucas Arts Sound (SOU)	SOU		

72Lucas Arts Living Book			
73AutoCAD Drawing Exchange (ASCII)	DXF		
74AutoCAD Drawing Exchange (Binary)	DXF		
75AutoCAD Drawing Exchange Binary	DXB, ACAD		
76Arj Self Extracting Archive	EXE		
77MS Windows Program (32 bit)	EXE, SCR, MOD, SYS, BIN, COM		
78Larc Self Extracting Archive (EXE)	EXE		
79LZexe Self Extracting Archive	EXE		
80LHarc Self Extracting Archive (EXE)	EXE		
81 PK Arc Self Extracting Archive	EXE		
82Arc 6.0 MKS Archive	EXE		
83NetWare Installation Start	INS		

	Hyperwriter! Document	HW3		
85		MVE		
	Novell Print Definition File	PDF		
	GEM Metafile Image	GEM, GDI, VDI		
	MS DOS Code Page Information/Font	CPI		
	GEM Write Format	FMT		
	PCR Graphic Image	PCR		
91	RLE Graphic Image	RLE		
92	Guide Document	GUI		
	MS Windows 98 Password List	PWL		
	Harvard Graphics Palette	PAL		
95	Compiler Library (COFF)	LIB, A, AR		
96	Lotus 123 Font	FNT, LRF		
97	Lotus 123 File	APC, APD, APF, ASD, RI		
	MS Windows Fax Cover Page	CPE, CPD, COV		

99	MS Windows Cabinet Archive	CAB, PKG, ??Z, ?? _, GDP, CDM, MSU			Y
100	MS Windows OLE Type Library	TLB, TWD, OLB			
	MS Windows Registry Hive	DAT, DAO, SAV			
102	Lotus 123 File	XLT			
	MS Internet Explorer Cache	DAT			
104	Lotus 123 Ver. 2 / Symphony 1.1 Worksheet	WK1, WKS		Y	
105	Lotus 123 Ver. 3 & 4 Worksheet	WK3, WK4, 123, 12M		Y	
106	Lotus 123 Ver. 1 & 1A Worksheet	WKS		Y	
	Symphony 1.0 Worksheet	WKS, WRK			
108	Lyra MIDI Music	LYR			
109	MS Excel Chart	XLC			
110	MS Excel Macro	XLM	Y	Y	
111	MS Excel Worksheet/Templ ate (OLE)	XLS, XLA, XLT, XLB, WWS, XLM	Y	Y	
112	TeleDisk Archive	TD0, TD1, TD2, TD3, TD?			
	MS Windows Program Group	GRP, GRB			

114MS Windows Icon	ICO		
115MS Windows Help File	HLP, GID, LHP		
116MS Windows Program Information	PIF		
117MS Windows Card File (Win NT)	CRD		
118MS Word for DOS Printer Definition	PRD		
119MS Word for DOS Style Sheet	STY		
120MS Word for DOS/WordPerfect Font	US?, R8?		
121MS Word for DOS Font	DAT		
122MultiMate Document	PAT, DOC, DOX		
123Music Studio Sound	SND		
124Music Studio Song	MSS, STY, SND, CHORUS, SNG		
125Musician I File	NOT		
126Compiler Object	ОВЈ		
127MS Publisher Job Submission Publication	JSP		
128PFS: 1st Publisher Macro	MAC		

129	PFS: 1st Publisher	ART		
	Art Image			
130	PFS: 1st Publisher	PUB		
	Document			
131	PageMaker 3.0	PM3		
	Document			
	PageMaker 3.0 File	PT3		
133	Encapsulated	EPS, EPSF		
	PostScript			
	Preview			
134	MS Works for DOS	WPS, WWP		
	Document			
135	Print Shop Art	SHP		
136	MS Windows Disk	DMF		
	Map File			
137	Print Shop/Print	SDR, NAM		
	Master Images			
138	Reflex Database	RXD		
139	Reflex Report	RXR		
140	MS Windows	URL, MIM, ULK		
	Internet Shortcut			
141	Amiga	STM, STX		
	ScreamTracker			
	Music			
142	Senddisk File			
143	Data Interchange	DIF		
	Format			
	Spreadsheet			

144	SuperKey Macro	MAC				
145	Borland Graphics Printing Interface	BGI				
146	Tag Image File Format (Motorola)	TIFF, TIF, SEP, TIM			Y	
147	Time Line File	MAP, T#?				
	MS Outlook Message	MSG	Y	Y		
	File Investigator for DOS Data	DES, PAT				
	File Investigator for DOS Scripts	JOB				
151	Jerusalem (B) VIRUS!	СОМ				
152	Ventura Publisher File	CAP, CHP, STY				
	PCMCIA Configuration Library	CLB				
154	InstallShield Install Script	INS				
155	Quatro Pro Data	QPW, CLP		Y		
156	Voice Master Key Sound	V8, V3S				
157	WordPerfect Document	DOC, WP, WKB, WPD, WPT, WP#		Y		

	WordPerfect Macro	WPM, WCM				
	PIC Graphic Image	PIC				
160	WordPerfect Graphic Image	WPG				
	Professional Write Document	PW				
162	BMP Graphic Image	ВМР			Y	
		WP?, ?RS, ALL, LAB, MOR, CBD				
164	MS PowerPoint Slides (OLE)	PPT, PPA, POT, PPS	Y	Y		
	MS Windows Calendar	CAL				
166	MS Windows Wave Sound (Intel)	WAV				
167	ComputerEyes Animation	SNP, M00, M01, M02, Mnn				
168	Wired For Sound	SND, SNW				
169	Macromedia Director Movie (Macintosh)	DXR, CXT, DIR				
170	Binary Image File	BIF				
	Encapsulated PostScript Document	EPS, EPI, EPSF, AI, PS				

172	Macintosh QuickDraw/PICT Image	PCT, PIC, PICT, PICT2, QTS			
173	HSI JPEG Picture	JPEG, JPG		Y	
174	ColoRIX Image	RIX, SCI, SCX, SCZ, SC?			
	Alpha Microsystems Bitmap	BMP			
	Silicon Graphics RGB Bitmap Image	SGI, BW, RGB, RLE, IRIS, RGBA			
177	AutoLogic Picture	GM, GM2, GM4			
	ADEX ChromaGraph Image	ADEX, IMG, RLE			
179	X11 BitMap	XBM, BM, BMP, BITMAP			
180	CALS Raster Image	CAL, RAS, CALS			
181	Erdas Image	LAN, GIS			
	Vivid Ray-Tracer Image	IMG			
183	QuikLink 2 Fax Document	QFX			
184	Jovian Logic Video Capture Image	VI			
	JPEG File Interchange	JPEG, JFIF, JPG, JFI, CMP, JIF,		Y	

	Format Image	THM, JPE		
186	Portable BitMap Image (Binary)	PBM, PNM		
	Portable GreyMap Image (Binary)	PGM, PNM, PBM		
	Portable PixMap Image (Binary)	PPM, PNM, PBM		
	Sound Blaster Instrument	SBI		
	Q0 Graphic Header	FAL		
191	PDS Picture	IBD		
192	HSI Palette	PAL		
	HP Printer Control Language File	PCL, PRN, PJ, PJXL		
194	HSI Raw Picture	RAW		
	MS Excel Workspace/Work book	XLW		
196	MS Windows Clipboard/Picture	CLP		
	Sound Blaster Instrument Bank	IBK		
198	Simple Musical Score IFF MIDI	SMU, IFF, SMUS, MUS		

199	TextCraft Document	FTXT, FTX, IFF		
	Harvard Graphics Chart	СНТ		
	HP Raster Transfer Language Image	RTL		
202	Gravis Ultrasound Patch	ΡΑΤ		
	NetWare Loadable Module	NLM, LAN		
	InstallShield Uninstall Script	ISU		
205	ACT! 2.0 Document	LBR		
206	Sun Raster Image	RAS, RAST, SUN, SR, SCR, RS, SRS		
	WordPerfect Office Notebook	NB		
208	ACT! 2.0 Report	RPN, RPC		
209	MS DOS Help	HLP		
210	Utah Raster Toolkit Image	RLE, URT		
211	Scodl Picture	SCD		
	Resource Interchange File Format (Intel)	RIFF, RIF, AVI, WAV, BND		
213	Bitstream Printer Font	SF?		
214	System Driver	SYS, BIN, COM	Y	

215	MS Write Document	WRI		Y	
		MCW, DOC	Y	Y	
217	MS Word for DOS/Macintosh Document	DOC	Y	Y	
218	X Windows System Dump Image	XWD, X11			
219	Animation Studio Character	CFT			
220	MS Draw Palette	PAL			
221	MS Windows 3.1 True Type Font	TTF			
222	MS Windows 3.x Screen Grabber	2GR, 3GR			
	Printer Escape Codes/Output	PRN			
224	Ad-Lib Instrument Bank	BNK			
225	MS Windows Compiled Resources	RES			
	Turbo Pascal Unit	TPU, TP			
227	Lode Runner Puzzle Set	PZL			

228	ProWrite	WOR, IFF			
	Document				
229	MS Word 97-2003 Document (OLE)	DOC, DOT, WIZ, WZS, WRI, WBK	Y	Y	
	. ,	· ·			
	MS Windows	WMF, APM			
	Metafile				
0.04	(placeable)				
	Dual Module Player Music	AMF			
232	Autochop File	#00, #01, #02,			
	Part	#03 <i>,</i> #nn			
233	Interchange File	IFF			
	Format				
234	MS Audio/Visual	AVI, VFW, DA2			
	Interleave (Intel)				
235	Digital Multi-	S3M			
	Track				
	Module/Song				
236	QuickTime Movie	MOV, QTM, QT,			
		mp4			
237	MS Network	мсс			
	Shortcut				
238	Interplay Sound	SND			
239	IBM OS/2 2.0	HLP			
	Help				
240	Standard Midi	MID, MDI, RMI,			
	Sequencer Music	SMF, MIDI			
241	Corel Draw	CDR, PAT, CDT			
	Raster (Intel)				

242	Dark Forces Data	GOB		
243	Drafix Windows CAD File	CAD		
244	3D Environment	RUN		
	MultiTracker Module Music	МТМ		
246	MPEG Animation	MPG, MPEG, MPE, M1V, ENC, MPA, MPS, M2V		
247	Xing MPEG Animation	MPG, MPE, M1V, ENC		
248	DESQview Group	GRP		
	Adobe Font Metrics (DESQview)	AFM		
250	Toolbook Database	ТВК <i>,</i> ЅВК		
251	Envoy Document	EVY, ENV		
252	MS Windows 3.x Logo	LGO		
253	MS Windows Printer Driver	WPD		
254	MS Windows Sound Mix	MIX		
255	RenderWare Script	RWX		
256	ROM Chip Image	BIN, ROM		
257	MS Find Saved Search	FND		

258	Adobe Portable Document Format	PDF	Y	Y	Y	
259	BinHex Archive	HQX, HEX				
260	IBM OS/2 True Type Font	TTF				
261	Sea Archive	SEA				
262	Stufflt Mac Archive	SIT, BIN, SITX, DAT				
263	SoundTool Sound	SND, SNDT				
264	Audio Visual Research Sound	AVR				
265	NeXT/Sun/UNIX Sound	AU, SND, SUN, NXT				
266	Sticker Store Sticker	STK				
267	IBM Filing Assistant Database					
268	IBM Writing Assistant Document					
269	MS Rich Text Format Document	RTF, DOC, WRI, WBK	Y	Y		
270	NetFRAME MPEG 2 Animation	MPEG, MPG, MPE, ENC				
271	Macromedia Director Movie (Intel)	DXR, CXT, DIR				

272	Norton Utilities Directory Tree	NCD			
	Portable BitMap Image (ASCII)	PBM, PNM			
274	MS Compound Document (OLE) (General)	OBD, PPT, DOC, XLS	Y	Y	
275	Portable GreyMap Image (ASCII)	PGM, PNM, PBM			
276	Sounder Sound	SND, SNDR			
277	Canon BJ Escape Codes/Output	PRN			
278	Bitstream Font	SPD, FNB			
279	CC:Mail Rule	RUL			
280	CC:Mail Smart Icon	SMI			
	Portable PixMap Image (ASCII)	PPM, PNM, PBM			
282	Id Software Internal Data (Doom)	WAD, RTS			
	PKZip Self Extracting Archive	EXE, ZIP			Y
284	MacPaint Bitmap (MacBinary)	MAC, MPNT, MACP, PNTG, PAINT, PNT			
285	Macromedia Director File (Macintosh)	DCR			

286	File Investigator for DOS Help File	FIH			
287	IBM OS/2 Bitmap	BMP, DIB, BGA		Y	
288	MS Windows Program (16 bit)	EXE, MOD, BIN			
289	MS Windows Program (WIN386)	EXE			
290	MS Windows Driver (16 bit)	EXE, VXD, SYS, DRV, 386			
291	MS Windows Library (16 bit)	DLL, DRV, VBX, EXE			
292	MS Windows Driver (16 bit)	DRV, DLL, VBX			
293	Mac PICT Image (MacBinary)	PCT, PIC			
294	MS Windows 3.x Screen Saver	SCR			
295	MS Windows Audio Converter	АСМ			
296	MS Windows Control Panel Applet	CPL, DLL, EXE			
297	MS Windows 3.x System Font	FON, FOT			
298	Tag Image File Format (MacBinary)	TIFF, TIF, SEP		Y	
299	MS Windows Policy	POLICY, MAN, MANIFEST			

300	Slide Show Image	SNX, REF		
301	Adobe PostScript Document	PS, AI		
	MS Windows Cursor	CUR		
303	Turbo C Project File	PRJ		
	MS Windows 95 Password List File	PWL		
305	CC:Mail Archive	CCA		
	Videoscape 3D Model with Colored Faces	GEO, SHP		
307	Software Toolworks Sound	SND		
	MS Windows Animated Cursor (Intel)	ANI, CON		
309	Novell Archive	??_		
310	Mosaic Hot List	НОТ		
311	MS Midi Musical Instrument Song (Intel)	RMI		
312	MS HyperTerminal Shortcut	HT		
	MS Windows Registry Import File	REG, DAT, SUD		

314	MS Windows Shortcut/Link	LNK				
	HyperText Markup Language	HTML, HTM, HT? , HTTP, ASP?, MHT, HH?		Y		
316	Empty File					
317	Modular Sound File	FTM				
318	OctaMED Tracker Module	MMD, MED				
319	Paintbrush Multi- Page Fax Bitmap	DCX, CMM, PCX, PCC			Y	
320	MS Windows Color Palette (Intel)	PAL				
321	Tag Image File Format (Intel)	TIFF, TIF, SEP			Y	
322	ld Software Patch (Doom)	WAD				
323		AIFF,AIFC,AIF, IFF,SND				
	MS Multi-Media Movie	МММ				
325	MS Windows Library (32 bit)	DLL, TLB, OCX, CPL, HX?				
326	MS Office Binder Document/Templa te/Wizard	OBD, OBT, OBZ, BIN	Y	Y		
327	MS Access Database Wizard	MDZ				

	Template			
328	MS ClipArt Gallery	CAG		
329	MS Pictures	PCS		
330	MS Access Database/Templa te/Addition	MDB, MDT, MDA, MDE, DPM, WCD, MDW, SBC		
	PSpice Capture Design/Library/S ymbols	DSN, DBK, OLB, OBK		
332	OrCAD Capture Project	ОРЈ		
333	OrCAD Capture CIS Database Config.	DBC		
334	InstallShield 3.x Archive	Z, LIB, INS, 1, ??_		
335	MS Personal Address Book	PAB		
336	MS Outlook Personal Information Store (97 - 2002)	PST		Y
337	ICC Profile	ICM, ICC, CC, PF		
	MS Windows Compiled HTML Help Module	CHM, CHI, CHQ, CHW, SLL		

339	MS Windows Office Toolbar Button	ТВВ		
340	Adobe PostScript Font (Binary)	PFB, PFA		
	MS Windows Address Book	WAB, WA~, WAB~		
	Extensible Markup Language	XML, CDF, OSD, AWE, HTML, HTM	Y	
343	Java Class (Compiled)	CLASS, CLA, CLS	Y	
	Netscape News/Mail Messages	SNM		
345	MS Debug Information File	DBG		
346	Precompiled Setup Information	PNF		
347	InstallShield 5 Cabinet Archive	CAB, HDR		
348	MS Project	MPP, MPT	Y	
349		MP3, MP2, MPGA		
350	MS Windows Swap File	SWP		
351	Computer Graphics Metafile (Binary)	CGM		

352	Configuration File	CFG, CNF, INI		
	(Text)			
353	Data File	DAT, DTA, DATA		
	(Unknown			
	Source)			
	MS Language	NLS, NLP		
	Character Set			
355	MS Visual C++	DEF		
	Definition File			
356	PaperPort Slide	FSS		
	Show			
357	MS Windows True	TTF		
	Type Font			
	Adobe Printer	PFM, MMM		
	Font Metrics			
	InstallShield	EX_, ??_		
	Archive			
	MS Compatibility	САТ		
	Database			
	MS Windows	THEME, THM		
	Desktop Theme			
362		IND, IDX, Index		
	(Unknown			
	Source)			
	PhotoDeluxe	GAL		
	Clipart Gallery			
	Borland C++	IDE		
	Project			
365		MBX		Y
	Express Email			

	Mailbox			
	MS Outlook Express Email Index	IDX		
367	Half-Life Saved Game	SAV		
368	MS Visual C++ DLL Exports File	EXP		
369	MS Linker Database	ILK		
370	MS Windows Help Text Search	TSC		
371	MS Visual C++ Precompiled Header	РСН		
	MS Windows Help Full Text Search Cache	FTS, FTG		
	MS Spelling Auto Correct List	ACL		
	MS Windows Help Answer Wizard	AW		
	Id Software Internal Data 3.0	WAD		
	MS Visual C++ Debug File	SBR		
	MS Windows Font Cache Index			

378	String Data	MSG		
	Resource			
	Temporary Data File (Unknown Source)	ТМР		
380	Binary Data File (Unknown Source)	BIN, BI		
	Sierra Game Data File	PRF, PKF		
	Unreal Game Archive	UNR, UMX, UAX, UTX, UVX, UKX, USX, U??		
	PaperPort Scanned Image	ΜΑΧ		
	MS Developer Studio Resource Script			
	ld Software Game Map (Quake)	BSP, TMP		
	Id Software Game Model	MDL		
387	Real Pool Image	RGB		
	Bezerk Acrophobia Data File	SRF		
	MS Chat Animated Character	AVB		
	PhotoImpact Data	QCP		

391	MS Windows Welcome Bitmap	WBM		
392	PhotoImpact Color Map	ΜΑΡ		
393	MS Outlook Express Email Tree	NCH		
394	MS Briefcase Database			
395	PhotoImpact Presets/Clipart Images	SMP, UOL, PST		
	PhotoImpact Pencil Style	GAP		
397	USA 98: Streets & Destination Map File	GMF		
398	USA 98: Streets & Destination Tour	U98		
	Calendar Creator Plus Calendar	CAL		
400	Adobe PhotoShop Image	PSD, PDD		
401	Java Script Source Code (ASCII)	JS, ASP, HTM, HTML, HTT, HTC, ASPX, ASCX	Y	
402	MS Visual C++ Compiled Resources	RES, APS, RCT		

403	Source Code Header/Include File	H, INC, H16, HXX, C, HPP		
404	MS Dependency File	DEP		
405	Source Code Make File	МАК, МК		
406	C/C++ Source Code File	C, CPP, H, CC, PCH++, RC	Y	
407	MS Visual C++ Object Description Lang.	ODL, IDL		
	Printer Job Language Image	PJL, SPL, PRN		
	Extended ISA Adapter File	ADF		
410	Adobe PostScript Document (PJL)	PS, PLT		
411	MS Developer Studio Project (ASCII)	DSP, DBP		
412	Virtual Reality World (ASCII)	WRL, WRZ, VRML, WRML		
413	Virtual Reality World (Binary)	WRL, IVR, BEH, LIT, WRZ		
414	MS Spell Checker Dictionary	DIC		
415	Cascading Style Sheet	CSS, HTM	Y	

416	MS Visual C++	RC		
	Resource Script			
417	PhotoSuite Album	CTF		
418	Java Source Code File	JAVA, HTM	Y	
419	MS Internet Explorer Connection Wizard	ICW, PBK		
420	MS Tip of the Day File	TIP		
421	Virtual Business Card File	VCF		
422	MS Visual C++ Registry Source	RGS		
423	MS Visual C++ Program Database	PDB, BSC, NCB, IDB		
424	MS Developer Studio Workspace	DSW		
425	MS Download File Index	SFC, SFO		
426	MS Visual C++ Interface Design Lang.	IDL		
	AIN Archiver Archive	AIN		
428	Casio Camera Image	CAM		

	Shockwave Flash Object	SWF, SPL		
430	Id Software Internal Data (Quake)	РАК		
	Id Software Internal Data 3.0 Hpack	НРК		
432	MS Windows Cue Cards	CUE		
	Adobe Language Database	RSD, SYD, DID, DDD, WLD, PDD		
434	PaperPort Thumbnail Images	ΡΤΝ		
	Macromedia Flash MX Shared Object Library			
436	Netscape Communicator Address Book	NA2		
	WBEM Repository Database Support File	•		
	IconAuthor Start File	IWM, IW		
	Resource Texture Extension	RTX		
440	Java Serialized Object	SER		

441	Adobe Illustrator Drawing	AI, EPS		
442	Corel Supplemental Dictionary	SUP		
443	XnView Filter	HFP		
444	ANSI Text File	ANS		
	Python Tkinter Library Icons	ICNS		
	Video CD MPEG Movie	DAT		
	Active Server Page	ASP		
448	BWC Archive	BC		
	SeeMail Video (MacBinary)	SEE		
450	MainActor Project	MPF		
451	Comma Separated Values Text File	CAS, CSV, LOG, TXT	Y	
452	MS ScanDisk/CHKDSK Fragment File	СНК		
	BTPC Compressed Image	ВТРС		
454	Advanced Audio Coding ADIF Sound	AAC		

455	Setup Information	INF, INI, CDF, ISS, SWT		
456	Initialization File	INI, SYS, INF, ECF		
	MS Outlook Express News Message	NWS		
458	WordStar Document	WS1, WS2, WS3, WS4, WS5, WS6, WS7, DOC	Y	
459	Printer Separator Page	SEP, HPC, GPD		
460	PeopleSoft Report	RPT		
461	Palm OS Address Book	DAT, BAK, ABA		
462	Palm OS Datebook	DAT, BAK		
	Palm OS To Do List	DAT, BAK		
464	Palm OS Memo Pad	DAT, BAK		
	WordStar for Windows	WSD, DOC	Y	
	MS Windows Media Player Playlist (XML)	WPL		
467	Corel Texture Colorset	COL		
468	Adobe Linguistics File	HYP, ENV		

469 PCA Security Signatures Catalog	CAT, SIG		
470Enhanced Compressor Archive	ENC		
471LZX Archive	LZX		
472NaShrink Archive	NSK		
473 Semone Archive	ONE		
474Informed Filler Form (MacBinary)	IFM		
475 Informed Filler Template (MacBinary)	ITP		
476Informed Interchange Document (MacBinary)	IIF		
477 Informed Package Document (MacBinary)	IPK		
478Sqweez Archive	SQZ		
479Stonecracker Archive	STC		
480AMOS Music Bank	АВК		
481 Ace Archive	ACE		
482MIME Base64 Archive	B64		

483	MS Access	ADP		
	Database Project			
484	UHArc	UHA		
	Compressed			
	Archive			
485	Blair Witch	POD		
	Project			
486	Unity3d	UNITYWEB		
	Environment			
487	Ace Ventura Game	BIN		
	Archive			
488	HTML + XML	XHTML, XHT, HTM,	Y	
	Namespace	HTML		
489	Act Of War Game	DAT		
	Archive			
490	XML-binary	ХОР		
	Optimized			
	Packaging			
491	Selectable Mode	SMV		
	Vocoder Sound			
492	Enhanced	EVB		
	Variable Rate			
	Codec Sound-B			
	Internet Low Bit	LBC		
	Rate Codec			
	Sound			
494	Mobile XMF Music	MXMF, XMF		
495	Mobile XMF Music	MXMF		
	(MacBinary)			

	Scalable Polyphony MIDI Music	MID		
497	MLP Audio Stream (Motorola)	MLP		
498	MLP Audio Stream (Intel)	MLP		
499	Compact Disc Digital Audio Track	CDA		
500	Phillips Compact Disk Interactive File	CDI, IFF		
	DOS Pipe File (Unknown Source)	\$\$\$		
502	EverAD PlayJ Sound	PLJ		
503	MS Visual Studio.NET Licenses	LICENSES		
	MS Windows Visual FoxPro Application	APP		
	Intuity AUDIX Multimedia Message	LVP		
506	Backup File (Unknown Source)	BAK, OLD		

507	Intuity AUDIX	LVP				
	Multimedia Msg					
	(MacBinary)					
508	Nortel Voice Block	VBK				
	Sound					
	(MacBinary)					
509	JPEG-2000 Bitmap	JP2, JPG2, JPX,			Y	
	Image	MJ2, MJP2, JPM				
	(MacBinary)					
510	MS Visual Basic	CLS		Y		
	Class Module					
511	DjVu Document	DJVU, DJV				
	Image					
	(MacBinary)					
512	FlashPix Bitmap	FPX, CPX, FMP				
	(MacBinary)					
513	DocuFile / EDMICS	RLC				
	2000 Image					
514	Ad-Aware	REF				
	Signature					
515	Harlequin RIP	PGB				
	Image					
516	CACTVS Clear	СТХ				
	Text File					
517	Geometric	GDL, GSM, WIN, I	DOR,			
	Description	LMP, RSM, MSM, I	SM			
	Language Image					
518	WildTangent	WJP				
	Compressed JPEG					
	Image					

519	SQL Server	MDF, NDF		
	Master Database			
520	ABC Music	ABC		
	Language Song			
521	ExperVision	DCT		
	TypeReader			
	Dictionary			
	MS Access	ACC, ACCDU,		
	Database/Wizard			
		ACCDB		
523	Nokia 9210	NIM		
	Communicator			
	Video			
	Absolute Terror	РАК		
	Game Archive			
525	Wireless Bitmap	WBMP		
526	Macromedia	DIR		
	Director Movie			
527	Descent Mission	BLK		
	Builder Blocks			
528	Descent Font	FNT		
529	Descent High	HI		
	Scores			
530	Descent Player	PLR		
531	Descent Robots	POF		
532	Delphi Compiled	DCP		
	Package Code			 
533	Font File	FNT, FON		
	(Unknown			
	Source)			

534	Abyss's Highest Experience Music	АНХ			
535	MS Visual Interdev Cache	VIC, IMG			
	Apple Email Message	EML, TXT, EMLX	Y	Y	
537	WinIMP Archive	IMP			
	Evolution Email Message	EML, TXT	Y	Y	
	Gmail Email Message	EML, TXT	Y	Y	
540	Global Message Exchange Email Message	EML, TXT	Y	Y	
541	Keyboard Script Layout	KBD			
	Horde Internet Messaging Program (IMP) Email Message	EML, TXT	Y	Y	
543	The Nemesis Project Game Archive	CLT			
544	List File (Unknown Source)	LST			
545	Microsoft Mail Email Message	EML, TXT	Y	Y	
	Mutt Email Message	EML, TXT	Y	Y	

547	Pro Evolution Soccer Game Archive	AFS			
548	[Deleted]MS Access Menu File				
549	dBase Index	NDX			
550	Open WebMail Email Message	EML, TXT	Y	Y	
551	EPANET Data File	NET			
552	MS Visual Studio.NET Project	CSPROJ, VBPROJ, U VBDPROJ, CSDPRO.			
553	MS FoxPro Program File	PRG			
554	MS C#.NET Project	CSPROJ, USER, CSDPROJ		Y	
555	PageMaker 3.0 Document (MacBinary)	PM3			
556	Borland Paradox Primary Index	РХ			
557	[Deleted]Borland Paradox Report Format				
558	[Deleted]Borland Paradox PAL Script Sou				
559	BITCOM Dial-Up Script File	SCP			

560	[Deleted]Borland Paradox Settings File				
561	Symbolic Link (SYLK) Spreadsheet	SLK			
562	[Deleted]Borland Paradox Sort Informati				
563	Symbolic Debugging Definitions	SYM			
564	Redolog Hard Disk Image				
565	[Deleted]Borland Paradox Validity Check				
	VisiCalc Spreadsheet	VC			
567	MS Works Database (OLE)	WDB, DB			
568	Borland Paradox Index	Xnn, Ynn, Znn, XGn, YGn, ZGn			
569	Computer Graphics Metafile (ASCII)	CGM			
	Extensible Style Language	XSL, XML, HTML, HTM, HTT, XSLT		Y	
571	MS Office Outlook 2003 Email	EML, TXT	Y	Y	

	Message				
572	C++ Dialogue Script	DLG, RC		Y	
573	American College of Radiology File	ACR			
	Microsoft Outlook 2000 IMO Email Message	EML, TXT	Y	Y	
	MS Outlook Express Email Message	EML, TXT	Y	Y	
	Amateur Data Interchange Format (ADIF)	ADI, ADIF			
	Pine Email Message	EML, TXT	Y	Y	
	Hotmail Email Message	EML, TXT	Y	Y	
	MS Virtual Server Hard Disk Image	VHD			
	MSN Application Extension	NAV			
	Velvet Studio Music Module Song	AMS			
	Document Style Definition	STYLEDEF			

583	ActiveMime Object	MSO		
584	WinZip Self Extracting Archive	EXE, ZIP		Y
585	MS Visual Studio Keyboard Template	VSK		
586	ASD Archive	ASD		
	3D Studio Max Model Export (ASCII)	ASE		
588	FIFA Football & Need for Speed Audio	ASF, AST		
589	Claris Impact Draw (MacBinary)	CID		
590	EVE Online Game Contents Archive	STUFF		
591	MS Office Macro Reference (OLE)	MSO		
592	Authorware Shocked File (Map)	AAM		
593	Authorware Windows File (Unpackaged)	A3W, A4W, A5W		

	Authorware Course File (Packaged)	A4P, A4R		
	Glyph Bitmap Distribution Format Font	BDF		
	MS Office Macro Reference (RAW)	MSO		
	Natural Language Processing Rule	RUL		
	Norton Virus Definitions Update	BIN		
	WinDVD Bookmark File	ВМК		
	Norton Virus Definitions Update Index	DAT		
601	MS Windows Network Service Performance Data	DAT		
	Wireless LAN Encrypted Profile	ENC		
	Nero Wave Editor Preset	PRE		
604	WildTangent Compressed PNG Image	WPG, WJP		

	Logitech Desktop Messenger User Profile	DAT, BAK		
606	Norton AntiVirus Scan Data	DAT		
607	MS Visual Basic.NET Source Code	VB	Y	
608	Norton Virus Definitions Update Certificate	DAT, BAK		
609	CC:Mail Box	ССМ		
610	Norton Virus Definitions Update Information	INF		
	Shockwave 3D Model	W3D		
612	Corel Draw Template	CDT		
613	Corel Draw Colorset	COL		
614	KiSS Paper Doll File	CEL		
615	VeriSign Security Certificate	CER, CRT, DER, DAT, CRL		
616	Norton Internet Security Web Definitions	BIN		

	Corel OCR Trace Configuration	CFG		
618	Common Gateway Interface Script	CGI		
619	MS PocketPC Device Emulator	BIN		
	OpenSSL Encrypted Data	ENC		
	Calculux Indoor Project	CIN		
	MS Profiler Output	PRF		
623	MS Outlook Express Log	LOG		
	SecureRemote Data	С		
625	Adobe Font List	LST		
	MSN Messenger Data	DAT		
	MS Windows Compatibility Solution Database	SDB		
628	MS Search Log	ТМР		
629	Final Fantasy Game Archive	LGP		
	Descent Movie Library	MVL		

631	Corel Metafile Exchange Image (Intel)	CMX, PAT, CDR		
	Journey To The Center Of The Earth Archive	0		
	Corel Duotone File	CIK		
	Corel Presents Presentation	PQF, SHW, CPR		
	Corel PhotoPaint Image	СРТ		
636	Code Page Translation File	СРХ		
	Corel Presents Run-Time Presentation	CRP		
638	Corel Script	CSC		
	Trickster Online Image	NRI		
	Cheat Engine Cheat Table	СТ		
	[Deleted] FaxWorks Control Information			
	[Deleted]MS CodeView Information Screen			

643	Claris Works Document (MacBinary)	СWК		
644	Claris Draw Image (MacBinary)	CDD		
	[Deleted] Macromedia Director Locked Cas			
646	MS Virtual PC Language Dictionary	DICT		
647	HP Digital Imaging Product Assistant Database	DBF		
648	Content Guard Digital Rights Management Database	DB		
	Delphi Compiled Unit File	DCU		
	FrontPage Binary- Tree Index	BTR		
651	Intel Wireless Event Profile Importer	EPI		
652	Amiga Workbench Icon	INFO		

653	Norton Antivirus Log	LOG		
654	Stereo CAD-3D Objects Graphics Image	3D2		
	QuickDraw 3D Metafile	3DMF		
656	MS Visual Studio Properties	VSPROPS		
657	[Deleted]Corel Custom Palette			
658	Wise Installer Log	LOG		
659	Andrew Toolkit Raster Image	ATK, CMU		
660	Log File (Unknown Source)	LOG		
661	MS Search System Index	0		
	Reality AdLib Tracker 2-op FM Music	RAD		
663	Media Direct Configuration	КС		
664	Raster Document Object	RDO		
665	Commodore Power 64 Memory Image			

	Norton Spam Filter Pattern	SPM		
	Gaussian Cube Image	CUBE		
	DataCAD Drawing File	DC5		
	Desktop Color Separation	DCS, EPS		
	Digital Document Interchange Format Image	DDIF		
671	Photo Lab File	EFIF		
672	Descent Demo	DEM		
	[Deleted] SoundCap/SoundE dit Recorded In			
	MicroStation CAD Drawing	DGN		
	Sound Designer I Audio File	DIG		
	DownLoadable MIDI Sounds	DLS		
	X-Tracker Music Module	DMF		
	Delphi Diagram Portfolio	DDP		
	MS Visual Basic.NET Project	VBPROJ, USER	Y	

680	MS Visual Studio.NET Src Safe Code Cnt	VSPSCC		
681	Micrografx Designer Image	DS4, DSF		
682	Doom Saved Game	DSG, SAVE		
683	MS Developer Studio Macro	DSM		
684	eXtensible ARchiver Archive	XAR		
685	Orchida Tajima Home Embroidery Image	DST		
686	SGML Document Type Definition	DTD, ENT, XML		
687	Digital Terrain Elevation Data	DTED, DT0, DT1, DT2, AVG, MIN, MAX		
	DigiTrakker module	DTM, MDL		
	MS Dial-up Networking Export	DUN		
	Digital Video Movie	DV		
691	DiamondWare Digitized Audio	DWD		
692	AutoDesk Web Graphics Image	DWF		

	LuraDocument Format Image	LDF			
694	[Deleted]Ensoniq ASR Disk Image				
695	[Deleted] FrameMaker Element Definition				
696	Ensoniq EPS Instrument	EFE			
697	[Deleted]Ensoniq KT Disk Image				
698	[Deleted]Ensoniq SQ1/SQ2/KS32 Disk Imag				
699	[Deleted]Ensoniq SQ80 Disk Image				
700	[Deleted]Ensoniq VFX-SD Disk Image				
701	Electric Image File	EIDI, EI			
702	MS Windows Enhanced Metafile	EMF, TMP, WMF		Y	
703	Internet Message	EML, TXT	Y	Y	
704	[Deleted] Enhanced Perl- Parsed HTML				

705	Adobe PostScript Font (MacBinary)	PFB		
706	Extension-Sort Packer Archive	ESP		
707	MS Encarta Document	EWL		
708	MS Word Exclusion Dictionary	EXC		
	[Deleted] Farandoyle Linear Module			
	[Deleted] Farandoyle Blocked Linear Modu			
711	Jupiter Ace Snapshot	ACE		
712	Farandoyle Composer Music Module	FAR		
	MS Outlook Navigation Bar	FAV		
714	Facsimile Group 3 Image	FAX, G3		
	Slim! Compressed Archive	FB		
716	Virtual CDROM File	FCD		

717		FDB, FDAT, FPR, FREC			
	MS PowerPoint Slides (XML)	PPT, PPS, XML, HTM, MHT	Y	Y	
	[Deleted]CADRE Finite Element Mesh File				
720	MS Fast Find Index	FFA, FFL, FFO, FFX			
	Gravis UltraSound PnP InterWave Patch	FFF			
	Virtual World Interchange File	FFIVW			
	IBM DCA Final Form Text	FFT			
	Freehand 5 Drawing (MacBinary)	FH5			
725	Fractal Image	FIF			
726	Flexible Image Transport System Bitmap	FITS, FIT, FTS, LST			
727	Flash Movie	FLA			
728	Figlet Font	FLF			
	Openflight Scene Description 3D Model	FLT			
	FrameMaker Document	FM, FRM			

731	Oracle Binary Form Source Code	FMB		
	GetRight File Mirror List	FML		
733	Oracle Executable Form	FMX		
	[Deleted]Font Navigator Font Group File			
	FunkTracker Module	FNK		
	Fontographer Font (MacBinary)	FOG		
737	[Deleted]Freedom of the Press Bitmap			
738	FileMaker Pro Database	FP, FP3, FPT, FMP, FP5		
739	[Deleted]Flying Pigs for Windows Data			
740	FlashPix Bitmap	FPX, CPX, FMP		
741	MS FoxPro Report File	FRT, FRX, PJT, MNT, LBT		
742	[Deleted]fPrint Audit Tool File			
743	Paradox Form	FSL		
744	Farandoyle Sample File	FSM		

Lotus Notes Full Text Index	FT		
Framework II Database	FW2, FWK		
Framework III Database	FW3		
Framework IV Database	FW4		
3D Frogger Game Data	MWD		
[Deleted]Casio FZ-1 Bank Dump			
[Deleted]Casio FZ-1 Full Dump			
[Deleted]Casio FZ-1 Voice Dump			
NeXT/Sun/UNIX Sound CCITT G.721 Raw 4 bit ADPCM	G721		
NeXT/Sun/UNIX Sound CCITT G.723 Raw 3 bit ADPCM	G723		
GenePix Array List	GAL, GPR		
Generic CADD Drawing	GCD		
[Deleted]Ground Control Point File			

758	GVA2000 Author Lecture	GDB		
759	GEDCOM Genealogical Data File	GED		
760	Ventura Generated Text File	GEN		
761	GetRight Unfinished Download	GETRIGHT		
762	[Deleted] Patton&Patton Flowcharting 4 C			
763	Linksys Router Configuration Backup	BIN		
764	[Deleted]Gravis GripKey Document			
765	Micro Focus Generated Code	GNT		
766	[Deleted]GraphOn Bitmap			
	[Deleted]Gould Scanner Bitmap			
768	MS Excel Graph	GRA		
769	MS ActiveMovie Graph	GRF		

770Gridded Binary Image	GRIB, GRB		
771 Raw GSM 6.10 Audio Stream	GSM		
772Graoumftracker New Music Module	GT2		
773 [Deleted] Graoumftracker Old Music Modul			
774Sound Tools File	НСОМ		
775 Hierarchical Data Format File (v4)	HDF		
776 [Deleted] HighEdit Document			
777 [Deleted]MS Hellbender Saved Game			
778HP Graphics Language Drawing	HGL, HPGL, PLT, HPG		
779 [Deleted]Hitachi Raster File			
780 Descent Mission	HOG		
781MS Visual Studio Help Project	HPJ		
782[Deleted]C++ Program Header			
783History file (Unknown	HST		

	Source)			
784	Extended HTML Template	НТХ		
785	Descent Property Resource Data	НХМ, НАМ		
786	[Deleted]Image Access eXecutive Bitmap			
787	Citrix Independent Computer Architecture File	ICA		
788	Kodak YCC Printer Image	ICC, YCC		
789	Icon Library File	ICL		
790	Sun Icon/Cursor Image	ICON, CURSOR, PR, ICO		
791	NCSA Interactive Color Raster Image	ICR		
792	MS MIDI Instrument Definition (Intel)	IDD, IDF		
793	[Deleted]Internet Data Query File			
794	Sun TAAC Image File	TAAC, VFF, SUNIFF, IFF		
795	Initial Graphics Exchange Specification	IGES, IGS		

796	[Deleted]Inset			
	Systems Metafile			
	Intuit Interchange Format Data	IIF		
798	WinImage file	IMA, WIL, DAT		
799	Oracle Form 3.0 Source Code	INP		
	PUT Compressed Archive	PUT, INS		
801	Findit Document	IOF		
802	MS Internet Inquiry File	iqy, igy		
	ISO 9660 CD-ROM Image (Data Mode 1)			
804	ImageStyler	IST		
	Impulse Tracker Music Module	IT		
806	Internet Document Set	ITS		
807	Open Inventor 3d Scene (ASCII)	IV, IRIS, INVENTOR		
808	Open Inventor 3d Scene (Binary)	IV, IRIS, INVENTOR		
809	YAODL 3D Scene	YAODL, YDL		
810	Paint Shop Pro Image Browser Cache	JBF		

811	[Deleted]SAS JMP Discovery Statistics F			
	[Deleted]Jill of the Jungle Data File			
813	Java Server Page	JSP, JS	Y	
814	Kurzweil 2500 Sample	К25		
815	Karaoke MIDI File	KAR, MID, MF		
816	Kodak Photo Enhancer Image	KDC		
817	Kaspersky Anti- virus Toolkit Key	KEY		
818	KoFax Group 4 Facsimile Image	KFX		
819	[Deleted]Kodak Digital Postcard File			
	RoboHELP K- keywords Project Index	KKW		
821	Korg Trinity/Triton Multisample	КМР		
822	Konica Quality Picture Native Camera Image	KQP		
823	Kurzweil 2000 Sample	KR1, KRZ		

824	Korg Trinity/Triton Sound Sample	KSF		
825	Kye Game Data	KYE		
826	SAdT Music Composer Module/Song	SAT		
827	TV Paint Image			
829	MS Access Lock File	LDB		
830	[Deleted]Corel Paradox Delivered Librar			
831	Legacy Document	LEG		
832	[Deleted]Logitech Entertainment System			
833	BGBlitz Position Database	PDB		
834	[Deleted]DataCAD Line Type File			
835	List Machine Image	LISPM, LISP		
836	HP Printer Control Language Image (PJL)	PCL, PRN, PJ, PJXL		
837	[Deleted]Laplink Exchange Agent			

	Helix Nuts and Bolts Stronghold Encrypted Archive [Deleted]Intel Video Phone	SAF, LPD		
840	Language Res [Deleted]Corel Paradox Saved			
	Library			
	HP Graphics Language Drawing (PJL)	HPGL, HGL, PLT		
	[Deleted] ThoughtWing Library Unit File			
	[Deleted]Miner Descent/D2 Level Extensi			
	Dymo DLS Label File	LWL		
	LightWave 3D Object	LWOB, LWO		
846	Lotus Word Pro 96/97 Document	LWP, MWP		
847	LightWave 3D Scene	LWSC, LWS		
	DataCAD Layer File	LYR		

849	[Deleted] Skyroads Data File			
	Corel Motion 3D Animation	M3D		
851	MS Access Module	MAD		
852	MS Access Form	MAF		
853	Applixware Document	AG		
854	MS Access Macro	MAM		
855	Manual Page Output	MAN, n		
856	MS Access Query	MAQ		
857	Mozilla Archive	MAR		
858	Lotus Freelance Graphics Smartmaster Look	MAS		
859	PS2 Powersave File	MAX		
	[Deleted]MS Hover Maze Data			
861	[Deleted]Monster Bash Data File			
	Berkeley UNIX Mailbox Format	MBOX, MBX		Y
863	Eudora Mailbox	MBX		Y
864	[Deleted]DataCAD Keyboard Macro			

865	MS Access Database	MDE		
	[Deleted]MS Access Blank Database Templ			
	QuickLink Mobile Phonebook	PBOOK		
	Fractal Forge Fractal Parameters	MND		
	OS/2 Presentation Manager Metafile	MET		
	Monarch Graphic Image	MGF		
	[Deleted]MS Image Composer File			
	FrameMaker Interchange File	MIF	Y	
	Machine Independent File Format Image	MIFF, MIF		
	Earthlink Email Message Index	MIF		
	Mitsubishi Color Sublimation Printer Image	MITSU		
	MS Visual Studio.NET Perform. Session	PSESS		

	Mobile Application Sound	MMF		
	Mindmaper MindManager Map	ММР		
879	Descent 2 Mission File	MN2		
	[Deleted]MNI Mandelbrot Image			
	Multi-Image Network Graphics Animation	MNG		
882	MS FoxPro menus	MNT, MNX		
883	[Deleted]MS FoxPro menus (compiled)			
884	Atari MSA Disk Image	MSA		
885	Manchester Scene Description Language	MSDL		
	[Deleted] Microsoft Network Document			
887	MTV Video	MTV		
	[Deleted] Microsoft			

	Multimedia Viewer Fi			
889	Lotus Word Pro 97 Smartmaster	MWP		
	[Deleted] Nanoscope File			
	Lotus Notes Internal Clipboard	NCF		
	[Deleted]Nendo 3D Low-Polygon Modeler			
	NeoChrome Bitmap Image	NEO		
	NeWS Bitmap Font	NEWS		
895	WildTangent Compressed Wave Sound	WWV		
	SPHERE Speech Recognition Waveform	NIST, SPH		
	National Imagery Transmission Format Image v1.0	NITF, NTF, NSIF		
898	Oracle 7 Data	NLB		
899	WildTangent Game Data	CDAS, CDANFO, CDAET, WTCFG, CDAED, CDAES		

	Lotus Notes Database Storage Facility	NS2, NSF, NTF, NDL, NS#, NSG, NSH			Y
	MS Foundation Classes (MFC) Wizard	CLW			
	AVHRR Satellite Image	NOAA, GOES, SST			
	Nonlinear Uniform Rational BSpl	NURBS, TXT			
	Noteworthy Composer Song	NWC			
	Typhoon Voice File	O01			
906	Object Oriented Graphics Library: Quadrilaterals (ASCII)	QUAD			
907	CD Catalog Localization Dictionary	САТ			
	PowerBASIC Debugger Symbols	PDB, PBD			
909	MS Outlook Form Template	OFT	Y	Y	
	Oktalyzer Tracker Music Module	ОКТ			
	MS OLE Object Library	OLB			

912	Psion Series 3 Word Document	WRD		
913	Symbian Organiser Executable	OPO		
914	MS Developer Studio Workspace Options	ОРТ		
915	OrgPlus Organization Chart	ΟΡΧ		
916	Lotus Organizer File	ORG, OR2, OR3		
	Oracle 7 Configuration	ORA, SIZ, VRF, PIN		
918	Oracle 7 Script	ORC		
919	MS Office Saved Search	OSS		
920	MS Exchange/Outlook Offline Storage (97-2002)	OST		Y
	Fookes Super NoteTab Template	OTL		
922	Tektronix Plot 10 Drawing	P10		
923	PageMaker 6.5 Publication (MacBinary)	P65		

924	PKCS Certificate /	P7C, P10, P12, P7B			
	Digital ID				
925	Sound Blaster Studio II Package Song	PAC			
926	Corel Draw Vector Pattern	ΡΑΤ			
927	PowerBuilder Dynamic Library	PBD, DLL			
928	TurboTax Form (1)	1PE, 1PH			
929	MS Phonebook	PBK			
	PowerBuilder Library	PBL			
931	PowerBASIC Resource	PBR			
932	Kodak Photo CD Image	PCD			
	Eudora Email Message	EML, TXT	Y	Y	
934	OKI MSM6376 Synthesizer Chip PCM File	PCM			
935	Norton Virus Definitions (compressed)				
936	PICS Animation	PCS			
937	MS Package Definition File	PDF			

938	NASA Planetary Data Systems Image	PDS, IMG		
939	Aladdin Systems Private File	PF		
	Aladdin Systems File Component	PFC		
941	HP Plotter Language Drawing	PGL, HPGL		
942	Pretty Good Privacy Key/Signature/Da ta	PGP		
943	MS Help Compiler Phrase Table	PH		
944	Perl-Parsed HTML	PHTML		
945	Pixar Picture	PICIO, PIXAR, PIC, PXR		
946	piAccess Mail / Link	PIL		
947	PINs encrypted data	PINS		
948	MPEG-4 Audio Lossless Coding Standard	ALS		
949	PABX Background Bitmap	PIX		

	PixelPaint Professional Image	PIXELPAINT		
	Macintosh Desktop Database			
	MS Visual Foxpro Project	РЈТ, РЈХ		
	MS Setup Package	PKG		
	Lotus Organiser Paper Layout Definition	PLT		
955	Perl Application	PL		
	Oracle 7 Data Description	PLI		
	DisorderTracker 2 Module	PLM		
958	UNIX Plot(5) File	PLOT		
	WinAmp MPEG Play List	PLS		
	AutoCAD Plot Drawing	PLT		
	Polygon Model Format	PLY		
	PageMaker 4.0 Document	PM4		
963	PageMaker 5.0 Document (MacBinary)	PM5		

964	PageMaker 6.0 Document (MacBinary)	PM6			
965	Portable Network Graphics Bitmap	PNG		Y	
966		PNT, MAC, MPNT, MACP, PNTG, PAINT			
967	Descent Alternative Texture Set	POG			
968	Persistence of Vision Ray-Tracer	POV, INC			
969	Picture Publisher Bitmap	PP4, PP5			
970	PlayStation Patch File	PPF			
971	Picture Pump Project	РРР			
	Palm OS Resource File	PRC			
973	Lotus Freelance Presentation	PRE			
974	Harvard Graphics Presentation	PRS, SH3			
975	PsiMail Internet Provider Template	PRV			
976	Lotus Freelance Graphics 97 File	PRZ, DGM, SMC, MAS, SYM, PRE,			

		BW, PAL		
977	Pinnacle Sound Bank	PSB		
978	Symbian/Psion A- Law Voice Note Audio	PSI		
	Protracker Studio Module	PSM		
	PolyTracker Music Module	PTM		
. –	Printronix Graphics File	РТХ		
982	Across Crossword Puzzle	PUZZ, PUZ		
983	MS Pocket Word Document	PWD		
984	Smith Corona Word Processor Document	PWP		
985	MS PowerPoint Wizard	PWZ		
986	MS Pocket Excel Spreadsheet	PXL		
	Python Tkinter / UNIX Shell Script	PY, PYC, TCL, SH, PL		
988	QuickArt Document	QAD, PF		
	QuickBooks for Windows Data	QBW		

990	Quick Ray Trace	QRT		
	Family Lawyer Document	QFL		
	MS Quarter-Inch Cartridge Backup Set	QIC		
	Quicken Interchange Format	QIF		
	Google Earth Language Definition	QM		
995	MS Query	QRY		
	Zelda Classic Quest Data	QST		
997	QuickTime Image	QTI, QTIF, QTS, QTX, QIF		
	QuickTime Preferences File	QTP		
	Q&A Write Document	QW		
0	Quark XPress Document/Templa te (English,Intel)	QXD, QXT, QWD, QWT, QXL, QXB		
	REBOL Script / Data	R		
	RealMedia Audio Sound	RA, RAM		
	Psion Series 3 Bitmap	PIC		

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RBH				
RDF				
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RFT				
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RIFF				
RL2				
RLA, RLB				
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RMD				
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101R 7	ich Map File	RMF		
	escue Rover ata	ROV		
	ed Hat Package Aanager Archive	RPM		
102C 0	rystal Report	RPT		
	oad Rash Saved iame	RRS		
102P 2	aradox 7 Report	RSL		
	eal Tracker Iusic Module	RTM		
102 Ir 4	nstallShield Log	ILG		
	NS Scan Configuration	RVP		
6v	nstrument/Sampl	S3I, SMP, SND		
7D	MI Professional ocument / tyles	SAM, AMI, STY	Y	
	Fzip SoundFont rchive	SFZ		
9D	Aacintosh Bitmap Pisplay Font MacBinary)			

103Shockwave Movie 0Object	МОО		
103MS Schedule+ 1Schedule	SC2, SCD		
103Thunderscan 2Image	SCAN		
103 MS Visual Source 3 Safe Code Control	SCC		
103Sculpt3D Scene 4Model	SCENE		
103MS Windows 5Explorer Command File	SCF, ISK		
103PSpice Schematic 6	SCH		
103ScanVec Inspire 7Native File	SCI		
103 Pinnacle Studio 8 Scene	SCN		
1033D Ultra Pinball 9Game Archive	TBV		
104Orbiter Scenario 0	SCN		
104MS FoxPro Form 1	SCX, VCX		
104Sound Designer 1 2Audio File	SD		
104 Sound Designer 2 3 Flattened File	SD2		

104Standard-Delay- 4Format	SDF		
104Roland S-series 5Floppy Image	SDK		
104SmartDraw 6Library	SDL		
104 Spatial Data 7 Modelling Language	SDML		
104SmartDraw 8Drawing	SDR		
104Midi Sample Dump 9Standard (raw)	SDS		
105SmartDraw 0Template	SDT		
105Semicolon Divided 1Values File	SDV		
105StarWriter 2Document / Template	SDW, VOR		
105Midi Sample Dump 3Standard (comp)	SDX		
105Cool Edit Session 4File	SES		
105E-mu SoundFont 52.0 MIDI Bank	SF2, SBK		
105SoundStage Sound 6File Data	SFD		

	SoundStage Sound File Information	SFI		
	Sonic Foundry MIDI Sysex Sample Resource	SFR		
	Seattle Film Works JPEG Image	SFW		
0	Standard Generalized Markup Language	SGML, XML, HTM, HTML		
	Silicon Graphics Object	SGO		
	Corel Show Slide Presentation	SHB, SHW		
	ArcView GIS Shape	SHP, SHX		
	Prosa State Transition Diagram Model	STM		
	DEC LN03+ Sixel Graphic Image	SIX, SIXEL, LNO3		
	Pretty Good Privacy (PGP) Private Keyring	SKA, SKR		
	Macromedia Director Resources (MacBinary)	SKL		

	AutoCAD Slide Library	SLB		
106 9	AutoCAD Slide	SLD		
	DataCAD Symbol File	SM3		
	3D Ultra Mini Golf Game Archive	RBX		
	Spectrum 512 Smooshed Image	SPC, SPU, SPS		
107 4	Splint Archive	SPL		
	SPOT Satellite Image	SPOT		
	Sound Shop Sound			
	MS Visual Studio.NET DB Discovery	VSDISCO, DISCO		
	Structured Query Language Code	SQC		
	Structured Query Language Query	SQL		
0	Structured Query Language Report / Program	SQR		

108Enable	SSF		
1 Spreadsheet			
108 Atari ST Minix	ST		
2Disk Image			
108Simple Vector	SVF		
3 Format Image			
108 Shockwave Audio	SWA		
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108 Yamaha SY-Series	SYW		
5Wave Sound			
108Sonata CAD	T2T		
6Modelling File	<b>T</b> 4 D		
108Tape Archive File 7	IAK		Y
108UNIX Compress	Z, TAZ, TGZ, GZ,		Y
8 Archive	GTAR		
108Thumbs Plus	DB, TDB		
9Database			
109PureVoice Audio	QCP		
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109PlayStation2 TIM2 1Bitmap	TM2		
109Tiger Map File	TIG		
109Eudora Mailbox	ТОС		
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109Kodak Color	TOL, ICC		
4Management			
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109Cakewalk	OVE		
5 Overture Score			
109Teleport Pro	ТРР		
6Project			
109GeneRally Track 7	TRK		
109MS Terminal File 8	TRM		
109 MKS Source 9 Integrity Project Use	TRN		
110TabWorks File 0	TWF		
110Tagwrite 1Template	TWW		
110 Descent Property 2 Resource Interchange	HMEL		
110Yamaha TX16W 3Wave Sound	TXW		
110X-ray Diffraction 4Data	UDF		
110Motif Icon File 5	UIL		
110US Telephony 6Audio File	ULAW		
110Ultra Tracker 7Module Music	ULT		
110MKS Source 8Integrity File	USE		

110UU-Encoded File 9	UU, UUE, DAT		
111UltraTracker 0Wave Audio	UWF		
111 FreeFlow Variable 1 Information (VI) Project	VI		
111MS Visual Basic 2Project	VBP	Y	
111MS Visual Basic 3Workspace	VBW	Y	
111MS Visual Basic 4Custom Control	VBX		
111Visual CertExam 5Suite Exam	VCE		
111MS FoxPro Class 6Library	VCT, VCX, SCT		
111LABView Virtual 7Instrument	VI		
111SymbOS VID 8Video	VID		
111 Khoros 9 Visualization Image	VIFF, XV, VIF		
112Norton AntiVirus 0Quarantined File			
112VivoActive 1Streaming Video	VIV, VIVO		
112Corel Ventura 2Library	VLB		

112FaxWorks Audio 3File	VMF		
112VORT Raster 4Image	VORT		
112VoxWare 5MetaVoice Encoded Audio	VOX		
112Ventura Publisher 6Publication	VP		
112Yamaha Sound-VQ 7Locator	VQE, VQL		
112Yamaha TwinVQF 8Music	VQF		
112MusicMatch 9Theme File	MMZ		
113MS Visio 3/4 ODocument/Drawin g/Shapes/Te mplate	VSD, VSS, VST, VT	Y	
113GetRight 1Download List	VSL		
113MS Visio 2 2Document/Drawin g/Shapes/Te mplate	VSS, VSD, VST	Y	
113MS Visio 3Workspace	VSW	Y	
113Id Software Sprite 4(Quake 2)	WAL		

113QuattroPro	WB1, WB2, WB3	Y	
5 Spreadsheet			
113MS Write / Word	WRI, WBK, TMP,	Y	
6Backup	DOC		
113Argo WebLoad II 7Upload	WBL		
113Crick Software 8WordBar File	WBR		
113Crick Software 9WordBar Template	WBT		
114MS Works 0Portfolio	WSB		
114Xara Web 1Document	WEB		
114Turtle Beach 2WaveFront Bank	WFB		
114Turtle Beach 3WaveFront Drum Set	WFD		
114Turtle Beach 4WaveFront Program	WFP		
114Audition Play 5Data	ARP		
114Logitech RSA 6Crypto Key	ТХТ		
114MS 7Word/Publisher Wizard	WIZ		

114Argo We 8Upload	bLoad I	WLF		
114MS Word 9	l Add-In	WLL, WWL		
115Future C 0Music Mo	•	WOW		
115Enable 1Wordpro Documer		WPF		
115Novel 2PerfectV Documer		WPW		
115Quattrol 3DOS Spre		WQ1, WQ2	Y	
115Lotus Sy 4Spreads	•	WR1, WRK, WKS, SYM	Y	
115Cakewal 5Audio Pr		WRK		
115Wavelet 6Quantiza Image		WVL		
115 Macrome 7 Program Extensio	1	X16, X32		
115Advance 8Visualize Object (	er 3D	OBJ		
115Xara X V 9Drawing		XAR		

116FastTracker 2 0Instrument Sample	XI		
116Wang Imaging 1File	XIF		
116X11 Xim Toolkit 2File	XIM		
116FastTracker 2 3Extended Music Module	XM		
116MS Exchange 4Shortcut/Link	XNK		
116Xaos Tools Bitmap 5Image	XOS		
116X11 Pixmap 6Image	XPM, PM		
116Xargon Game 7Data	XR1		
116XTree Data 8	ХТР		
116Yamaha XG Works 9MIDI File	XWF		
117Subsampled Raw 0YUV Bitmap	Y, U, V		
117Arts & Letters 1Clipart Library	YAL		
117YBS Archive 2	YBS		
117Hacha Split File 3	0, n, nn		

117MS Visual	WEBINFO		
4Studio.NET Web			
Information			
117Zinc Interface	ZINC		
5Library Icon			
117MS IIS RSA Crypto			
6 Machine Key			
117MS Windows			
7Recycled Files			
117MS Outlook	OAB		
8 Address Book			
117MS Application	PIP		
9 Profile Settings			
118BlackBerry Data	ITB		
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118MS Datamap	ID		
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118MS Language Web			
2Cache	ESN, FRA, ITA,		
	NLD		
118BlackBerry Data	ISH, BKO		
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118MS	LEX, DAT, SVE,		
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e Dictionary	THS		
118MS Windows	EVT		
5Event Log			
118MS Exchange	RWZ		
6Settings			

118MS Windows CB 7Data	CBD		
118Flash Video 8	FLV		
118MS Software 9Policies	POL		
119Unicode 0Extensions	UCE		
119MS Outlook 1Remote Email	RHC		
119MS Office Clip 2Art	ММС		
119MS NT Operating 3System Loader			
119BlackBerry Data 4	IL		
119 MS 5 Exchange/Securit y Configuration Database (ESE)	EDB, SDB		
119MapInfo Map 6	ΜΑΡ		
119InstallShield 7Definition File	DAT, CDF, DEF, FDF, INI		
119MS Windows 8COM+ Library	CLB, DAT, APL		
119 MS Internet 9 Database Connector Documen	IDC		

120	AS Visual C	DEP		
0	Dependency File			
120	Norton Virus	DAT, KC, nnn		
1 C	Definitions			
120	AS Forms Cache	DAT		
2				
	AS Outlook	DBX		Y
	Express Email Database			
120	AS Windows NT	SYS		
4S	System Driver			
120	AS Datamap	IND		
5II	ndex			
120	AS Visual C Build	PLG		
	og			
120		ACS, ACG, ACF		
	Agent/Assistant			
	Character			
120		BDR		
	Office/Publisher			
	Border			
	ierra Game Data File	GKD		
		EFX, JSD		
	ax Document	LI N, JJU		
		MSI, MST, DAT,		
		MSM, WID, WIM,		
	Package /	CUB, PCP		
	Wizard			

121 DVD MPEG2 Video 20bject File	VOB		
121 DOS Master Boot 3 Record (MBR)	DOS, SYS		
121MS Visual BASIC 4Source Code	BAS, VB, VBS, ASPX, ASCX	Y	
121WinPharoah 5Filter	FTR		
121 Keyboard System 6 Driver	SYS		
121Sierra User 7Profile	LOG		
121 Raima Arcserve 8 Database	00?, DAT		
121DVD Video 9Manager Data	BUP, IFO		
122MS DirectMusic 0Support File	TPJ, TPL, PER, CDM		
122Adobe Acrobat 1Capture Index	NDX		
122Canon Digital 2Camera Picture Catalog	CTG		
122MS Visual BASIC 3Form	FRM, CTL	Y	
122MS Visual BASIC 4Form Index	FRX		
122MS Visual BASIC 5Script/Header	ASP, ASA, INC, BAS, ASPX, ASMX, ASAX, AS	Y	

122MS Datamap Data 6	DAT		
122 Active Template 7 Library Template	CPP, H, IDL		
122 Active Template 8 Library Control	CTL		
122DELL Program 9Diskette Image	IMG		
123UUNET Dial-in 0Script	SCR		
123MS Temporary 1Disk File	TDF, TD2		
123MS Windows 2Profile System File	DAT, LOG, ADR		
123MS Windows 3Security Catalog	САТ		
123WBEM Managed 4Object Format	MOF, MFL		
123Character Set 5View	CSV		
123MS Windows 6System Event Log	LOG, ALT, LO_		
123MS Windows 7Registry Log	LOG		
123Link Notebook 8Chart	LNB, ANB		
123MPEG Music File 9(+ID3v2 Tags)	MP3, MP2, MPGA		

124Config 0(Binary	uration File /)	CFG, CNF			
124 Palm C 1 Expens		DAT, BAK, DB			
	ile:  e/DoubleB  F-16LE	TXT, DOC, INI, INF, TEXT		Y	
124Direct 3(Binary	•	X, D3D, XIE			
124Vista D 4Elevat Data	Pigital ion Model	DEM			
124Macint 5Image	osh Disk	DMF, DMG			
124Free L 6Audio		FLAC, FLA			
124MS Off 7Docum		XML, HTM, DOC, PPT, XLS, MHT	Y	Y	
124MS Exc 8Spreac (XML)		XLS, XML, HTM, MHT	Y	Y	
124MS Wo 9Docum		DOC,XML,HTM, HTML,MHT	Y	Y	
	m/Program y (64-bit)	ELF			
125UNIX P 1Library	rogram y (64-bit)	SO			
125RAR Co 2Archiv	ompressed e	RAR, Rnn, Snn			Y

125MS Project (ANSI) 3	MPX		Y	
125Text File (UTF-8) 4	TXT, INI, TEXT,		Y	
125Workshare 5DeltaView File	WDF			
125Source Code 6(General)	PAS, C, CPP, JS, H, VB, VBS			
125 InterActual 7 Installer Disk Identifier	ID			
125 Tab Separated 8 Values Text File	TSV, TXT, TEXT, LOG		Y	
125MS Windows 9Media Active Stream	WMV, WMA, ASF, ASR, DVR-MS			
126Pro/ENGINEER 0Geographic Image	PRT, PTR			
126Zinio Electronic 1Magazine	ZNO			
126 Internet Message 2(MIME)	EML, TXT, MHT, MIM, MME, MIME, MSG	Y	Y	
126 Internet Message 3 (UU-Encoded)	EML, TXT	Y	Y	
126Scalable Vector 4Graphics Image	SVG			
126Sonic Foundry 5ACID 3 Music	ACD			

126QuickTime Xtra	X16, X32, 68K,		
6Plug-in	PPC, APP		
126CD-ROM Autoplay 7Menu	APM		
126MS Album Media 8Database	ABM		
126 America Online 9 Address Book Index	ABI		
127America Online 0Address Book	ABY		
127America Online 1Buddies List	BAG		
127PKZip Archive 2Split File	CA1, CA2, CA3, CA4, CA5, CA6, CA7, CAn		
127MS Speech 3Recognition Engine Data	AM, DLM, LXA, NGR, SMP		
127Borland Text 4Language Dictionary	BTL		
127MS Step by Step 5Interactive Training	CBZ, LDZ		
127WordPerfect 6Office Color Correction	CC, PF, ICM		
127Borland Graphics 7Interface Stroke	CHR		

Font			
127MS HTML Help 8Index	CHS		
127Easy CD Creator 9Project Layout	CL5		
128Adobe Acrobat 0Linguistics Index	CLX		
128BroadJump 1Character Set Conversion	CNV, DAT		
128MS Office FAX 2Cover Page	CVP		
128PC Stomper Data 3File	DB1, DSX, DWR, LGS, SY0, DST, DSN, AP0		
128MS Dr. Watson 4Memory Dump	DMP, HDMP, MDMP		
128Turbo Compiler 5Context File	DSK		
128MS Windows 6Application Log	DTC		
128MyDVD Style 7Template	DVD		
128Ensoniq Waveset 8	ECW		
128MS Windows 9Desktop Theme Elements	ELM		

129America Online 0Data	GLF, PPK			
129 Gravis Xperience 1 Joystick Gameset	GRX			
129WebDesigner 2Template	НМР			
129InstallShield 3Index	INX			
129JPEG-2000 Bitmap 4Image	JP2, JPG2, JPX, MJ2, MJP2, JPM, J2K		Y	
129MaxBlast 5Language Translation	LNG			
129MS Office Imaging 6Language File	LNG, SHP, LC			
129QuickTime Data 7	MAPPING, QDAT, QTR, BITMAP			
129Xtra Cache 8	МСН			
129McAfee VirusScan 9Quarantined File	MCQ			
130MS Outlook 0AutoComplete File	NK2			
130Network 1Exchange Map	NTXMAP			
130SCO Unix Driver 2	0			

130OpenType 3Compact Font Format	OTF			
130MS Publisher 4Wizard Template	РОС			
130 Paint Shop Pro 5 Image	PSPIMAGE, PSPBR PSPFRAME, PSPSELECTI	USH,		
130Paint Shop Pro 6Deformation Map	PSPDEFORMATIO N, PSP			
130Paint Shop Pro 7Gradient	PSPGRADIENT, GRD, PSP			
130Quicken Data 8	QDF, QSD, ABD, CFG, DIR			
130Quicken 9Electronic Library	QEL, QFI, DAT, DES			
131WBEM Repository 0	REP			
131Addict Spell 1Check Dictionary	DCT			
131MS Visual Studio 2Compiled Resource	RSC, RSR			
131 InstallShield Skin 3 File	SKIN, SKN			
131MS Setup File 4	STF			
131TaxACT Form 5	TAO, TA1, TA2, TA3, TA4, TA8,			

		TA9, TAn		
	RealMedia Metadata Backup	TMD		
131 7	AddWeb Update	UPDATE, ADB		
	Kretz JPEG Picture	V00		
	MS Windows Media Database	WMDB, BIN, SDF		
	XPCOM Type Library	ХРТ		
	ZoomBrowser Database	ZBD		
	Setup Information File Index	1		
	Kolbe Test Results	ART		
	WordPerfect Assistant Template	AST		
	XBase/dBase Compount Index	CDX, DCX		
	Norton Internet Security Definition	DAT		
	PhotoSuite Picture Catalog	СТС		
	Netscape Certificate/Securi	DB, HST		

	ty Database					
	MS Windows Icon Cache Database	DB				
	MS ISAM Database	DB, MNY				
	Adobe Portable Document (MacBinary)	PDF	Y	Y	Y	
2	JPEG File Interchange Format + MAC Resource Fork	JPG			Y	
	America Online Internet Mail	IDX, LST				
	America Online Index	IND				
5	America Online Personal File Cabinet	ORG, PFC, ARL, AUT, MAIL				
6	MS Visual C++ Precompiled Header Cache	РСС				
7	Palm OS Database/Docume nt	PDB				
8	Adobe Acrobat Spelling Lexicon Dictionary	LEX				

133	Photo Express	PST, SMP, PE4		
9	Pattern/Gallery			
134	Java 2 MIDI Sound	GM, RMF		
0	Bank / Rich Music			
	Format Audio			
	Inno Setup	DAT		
	Uninstall Log			
134	Interplay Movie	MVE		
2				
		MAR, MARC		
	Network (MSN)			
	Archive			
	Microsoft	DAT		
4	Network (MSN) Data			
124		THN		
	Graphics Workshop / GIF			
5	Cons Thumbnail			
134	GTCoach Training	TRN		
	Lesson			
	MS 3D Pinball	DAT		
	Data			
134	InstallShield Data	BIN, CFG		
8				
134	FoxPro/RealMedi	DBF		
9	a CD Tracks			
	Database			
135	Iomega Loadable	ILM		
0	Driver Module			

	MS Album Media Scene	SCN			
	Adobe Acrobat Resource CMap				
	BeOS Compiler Project	PROJ			
	Musicmatch Visual Slide Show	MVS			
	Paint Shop Pro Script	PSPSCRIPT, PSP			
	MS Publisher Document	PUB	Y	Y	
	MS Visual Basic Active Document	VBD		Y	
	MS Picture It! Multilayer Picture	ΜΙΧ			
	Family Tree Database	FTW, FBK			
	WordPerfect Document Template	WPX			
1	MS Windows Installer/Upgrade Patch	MSP, DAT			
	CrossePAC Compressed Archive	PAC			
	Lossless Predictive Audio	PAC, LPAC			

Compression			
136STAD Graphic 4Image	РАС		
136Adobe PhotoShop 5Pattern	ΡΑΤ		
136Descent Texture 6Set	PIG		
136Generic Sound 7Sample	SND, SOU		
136Legal Hash 8Database(s) Match (Good)			
136Legal Hash 9Database(s) Match (Bad)			
137Corel Draw 0Workspace	CW_		
137 Internet Database 1 Search Agent			
137MS Outlook Email 2Account Settings	IAF		
137WorldToolKit 3D 3Neutral File Format	NFF		
137MS Windows 4Application Usage Log	LGC, LGD, LGG		
137File Investigator 52.x Database	FIV, FIB, FID, FIP		

	File Investigator Hash Code	FIH		
	Database			
	NIST NSRL Hash Database	TXT, CSV		
137	Paint Shop Pro Line Style	PSPSTYLEDLINE, PSP		
	Concept Draw Drawing/Diagram	CDD		
	Corel PhotoPaint Tone Curve	CRV		
	MS Money Support File	CSM		
	McAfee Firewall Log/Database	EDB, XDB, ELOG		
	Corel Saved Search	FIN		
	IconAuthor Font Style Template	FTT		
	EnCase Hash Database	HASH		
	JAWS for Windows Script	JSB		
	MS .NET Framework Library Design Object	LDO		
	America Online License	LIC		

138McAfee Firewall 9Neotrace Locations	LOCA, LOC		
139PhotoStudio 0Image	PSF, LOG		
139 Playstation Sound 1 Format	PSF		
139PhotoDeluxe 2Support File	PSP		
139Paint Shop Pro 3Support Data	PSPCACHE, PSP		
139Kodak Precision 4Color Management System	PT		
139MS PC Health 5Help Center Query	QUERY		
139Corel Dream 3D 6Shader	SHA		
139Corel PhotoPaint 7Shear Map	SHR		
139IconAuthor 8SmartObject	SMT		
139SoundBlaster 9Studio Song	SON		
140Adobe Acrobat 0Plug-In	STC		
140Corel Draw 1Texture	TEX		

140 2	Corel Thesaurus	THS		
	BitTorrent Metainfo	TORRENT		
	Corel Draw Script Texture	UDI		
5	Corel PhotoPaint User Defined Filter	USR		
	Corel Compressed Image	WI		
	Corel Support File	TPA, SCK		
	MS Office Profile Settings	OPS		
9	America Online Connect Service Data			
0	PhotoDeluxe Lighting Style Plug-in			
1	Borland Database Engine Character Set	CVB		
2	InfoSoft Localization Database	ENU, ESN, ITA, ENG		
3	Windows NT Media Services Database			

4	Creative SoundFont Manager Data	SFM		
	OmniPage Character Recognition Tree	ВСТ		
6	Zinio Electronic Magazine Annotations	ZNA		
	BitTorrent Download Configuration	CONFIG		
	Java Runtime Environment Time Zone Inf			
	Java Runtime Environment Time Zone Map			
142 0	Corel Draw Mask	MSK		
1	Java Runtime Environment Certification			
	NVidia MIDI Instrument Bank	BNK		
	Harvard Graphics Draw Image	HDW		
142	Corel Color Match Profile	ССМ		

142WordPerfect 5Spelling Lexicon Dictionary	LEX, MOR, ADV		
142Bzip Archive V2 6	BZ, BZ2, TBV2		Y
142CPIO Archive 7	СРІО		
142 CRUSH 8 Compressed Archive	CRU, CRUSH		
142HAP Archive 9	НАР		
143 JAR Compressed OArchive	JAR		Y
143 JARCS 1 Compressed Archive	JAR, J		Y
143 Java Archive 2	JAR, ZIP, BASE, MZP		Y
143Lotus 123 Ver. 3 3Format File	FM3		
143Lotus 123 Ver. 4 4Format File	FMT		
143Lotus Approach 5Index	ADX		
143Dreamcast Audio 6	ADX		
143 Nintendo 7 Entertainment System Sound	NSF, NSA		

4.42				
		UFA		
8	Archive			
143	Quark XPress	QXD, QXT, QWD,		
9	Document/Templa	QWT, QXL, QXB		
	te			
	(English,Motorola			
	)			
144	EnCase Evidence	EVF, Enn, E01,		Y
	Segment	EWF, Lnn, L01,		
		Snn, S01		
144	Novell LANalyzer	TR1		
	Capture			
	TCPDump /			
	Libpcap Capture			
	Quicken Price	QPH		
	History			
	WinPharoah	ETH		
	Capture	C 4) /		
	Chaser Saved	SAV		
5	Game			
144	SPSS Data	SAV		
6				
144	Quicken	IDX		
7	QuickFinder			
	Information			
144	QEMU Qcow Disk	IMG		
	Image			
	MS Windows	CAP		
	Netmon Capture			

145NetXRay/SnifferP 0ro Capture	САР		
145EnCase Case 1Data	CAS, CBK		
145 Pretty Good 2 Privacy Public Keyring	PKR		
145 Forensic Toolkit 3 (FTK) Evidence	DAT		
145PestPatrol Scan 4Strings	DAT		
145Atmos Snapshot 5	DAT, TAP		
145Allegro Generic 6Data	DAT		
145WinDump / 7Winpcap Capture	ACP, PCAP		
145Set Bitmap 8	IMG		
145GEM Raster 9Image	IMG		
146Corel Dream 3D 0Model	D3D		
146Corel Dream 3D 1Metafile	3DMF		
146 Pronto Remote 2 Control Codes File	CCF		
146MS SQL Server 3Database Tape	ВАК		

Backup			
146MS PipeLine 4Component File	PCF		
146MS Visual J++ 5Project	VJP		
146MS Visual Basic 6Group Project	VBG	Y	
146MS Visual Studio 7Solution	SLN	Y	
146MS Visual Studio 8Package Project	РКР		
146License Package 9	LPK		
147TrueSpace 3D 0Object (Binary)	COB, SCN		
147MS DirectMusic 1Style	STY		
147MS Network 2Driver Protocol Support	SX, SY, P		
147Floppy Disk Image 3/ MBR (FAT12)	IMG, DD		Y
147HashKeeper Hash 4Database	TXT, HSH		
147HashKeeper Hash 5Database Index	TXT, HKE		
147XGS Apple IIGS 6Emulator 2IMG	2MG, 2IMG		

	Disk Image			
147 7	Amapi 3D Model	A3D		
147 8	Opera Bookmark	ADR		
9	BIZ dVS Model/Object 2.0	B2Z, BMZ		
	Virtual MC-10 Tape Image	C10		
1	Diablo II Game Character/Equip ment	D2S		
	MS Reader Ebook (EBO)	EBO		
	Electric Image 3D Image	FACT		
148 4	Vectrex Game	GAM		
	Games Factory Game	GAM		
	Text Adventure Development System Game Data	GAM		
	Hex Workshop Hex Editor Bookmark	НВК		

148HP Palmtop 8100/200LX Icon	ICN			
148 Jacksum Meta- 9 Info Hash Code List	JACKSUM			
149Keynote Data 0	KNT			
149Cinema 4D 1Layout	L4D			
149Cinema 4D V5 2Preferences				
149Cinema 4D V5 3Document				
149Cinema 4D V5 4Catalog				
149Cinema 4D V5 5Function Curve				
149Cinema 4D Image 6	B3D			
149Winamp MP3 7Playlist	M3U			
149CoverDesigner CD 8Cover Image/Template	NCD, NCT			
149 OpenDocument 9 Office Document	ODT, O?I, O?G, O?F, O?C, O?T, OD?, OT?	Y	Y	
150MindRender VREK 0Object	ODT			

1	Massive Development Package Archive	РАК		
	Quick3D Model Object	Q3O		
	Quick3D Model Scene	Q3S		
4	Yamaha Music Production Studio Seq.	R2A		
5	Yamaha Music Production Studio Pattern	R2P		
	Yamaha Music Production Studio Song	R2S		
7	Yamaha Music Production Studio Sample	R3A, R3P		
8	Text Adventure Development System Img.	Т3		
	WinUAE Game Configuration	UAE		
	Warcraft III Recorded Game	W3G, W3Z		
	Warcraft III Game Map	W3M, W3X		
	AutoDesk Inventor Export Journal	XLO		

151yEnc Encoded 3File	YNC			
151Atari ST YM2149 4Module/Song	ΥM			
151 AbiWord 5 Compressed Document	ZABW, GZ			
151AbiWord 6Document	ABW			
151 NeoChrome 7 Animation	ANI			
151Deluxe Paint 8Animation	ANM			
1517-Zip Archive 9	7Z, LZMA			Y
152Ai32 Archiver 0Archive	AI			
152MS Access 1Report / Snapshot	RPT, SNP	Y	Y	
152Amiga IFF/16SVX 2Sound	SND, IFF, LBM, SVX			
152Sims Game Data, 3The	IFF			
152PlayStation 4ADPCM Sound	VAG			
152 Sonarc 5 Compressed VOC Audio	VC			

6	VOCPACK Lossless Compressed Audio	VP		
7	Sonic Foundry VideoEditor Wave64 Audio	W64		
8	WavPack Lossless Compressed Audio	WV		
9	Symbian 3a/3c/3mx Waveform Sound	WVE		
	Apple MPEG-4 ALE Audio	M4A, MP4, MPG4		
1	WaveZIP Lossless Compressed Audio	МСР		
	MIO Compressed Audio	MIO		
3	ACT Lossless Compressed Audio	MKW		
	AAC MPEG-4 Audio	MP4, MPG4		
153 5	Musepack Audio	МРС		
153 6	AUPEC Audio	MV3		
	OGG Vorbis Compressed	OGG, OGA		

Audio			
153Sims Extensive 8Audio, The	ХА		
153Texas Instruments 9Calculator Data	921, 891, 861, 851, 831, 821, 731, 801		
154Advanced Image 0Coding Image	AIC		
154America Online 1Image	ART		
154OS/2 Bitmap 2Graphic Array	BGA		
154ComputerEyes 3Raw Image	CE1, CE2		
154Continuous Edge 4Graphic Image	CEG		
154CH Compressor 5for Picture! Image	СНР		
154Block DCT 6Compressor Image	KIF		
154Cineon Bitmap 7	CIN		
154Cinematic Video 8(Quake 2)	CIN		
154MS Windows CMU 9Manager Bitmap	СМИ		
155DICOM Image 0	DICM, DCM		

	Freehand 8 Document	FH8		
2	MS Repository Information Model	RDM		
3	MS Operating System Localization DB	nnn		
4	PFS: 1st Publisher Directory Summary	DIR		
5	Pro/ENGINEER Geographic Image Form	FRM		
6	SQL Server Database Changes Log	LDF		
	SNMP MIB Definition	MIB		
	Super Nintendo Music/Audio	SPC		
9	SpchComp Encoded Speech/Audio	SPC		
0	MS Access Report Snapshot (Compressed)	SNP		
	AlbumWrap Music Archive	MP3		

2	ALZip Compressed Archive	ALZ		
	AIX Small Indexed Archive (32bit)	AR		
	AIX Small Indexed Archive (32/64- bit)	AR		
	ARX Compressed Archive	ARX		
	Bag Compressed Archive	BAG		
	Railroad Tycoon Building Category	BCA		
	Railroad Tycoon Building Type	ВТҮ		
9	Railroad Tycoon Locomotive Properties	LCO		
	Railroad Tycoon Car/Cargo Properties	CAR, CTY		
1	Railroad Tycoon Packaged Graphics	PK4		
	Jetico Encrypted Archive	BCA		
	Bee Compressed Archive	BEE		

4	BlackHole Compressed Archive	BH		
5	BioArc Compressed Archive	BIO		
	BIX Compressed Archive	BIX		
7	BLINK Compressed Archive	BLI		
	CAR Compressed Archive	CAR		
	Cellsprings/Web or DT Rule File	CAR		
0	BOA Constrictor Compressed Archive	BOA, B58, B??		
1	BSA Packing Program Compressed Archive	BSN		
	BZA Compressed Archive	BZA		
3	ChArc Compressed Archive	CHZ		
4	AUKTOOLS 2000 Compressed Archive	СМР		

158CTXf Compressed 5Archive	CXF		
158Dynamic Adaptive 6Tool Archive	Compression		
158 DCA Compressed 7 Archive	DCA		
158Digital G Codec 8Archive	DGC		
158Commodore 64 9Emulator Disk Image	X64		
159WRAptor 0Compressed Archive (C64)	WRA		
159 Commodore 64 1 Raw Cassette Tape Image	ΤΑΡ		
159Commodore 64s 2Emulator Tape Image	Т64		
159PlaySID Music 3	SID, PSID		
159RealSID Music 4	SID		
159LHarc Self 5Extracting Archive (C64)			
159 Arc Self-Disolving 6 Compressed Archive (C64)	SDA		

159 7	PC Link Image	C64		
	PC64 Saved- Session Image	FRZ, C64		
159 9	PC64 Native File	Pnn, Snn, Unn, Rnn		
	DIGILINEAR Compressed Archive	DLC		
1	Disk Masher Compressed Disk Image	DMS		
2	Amiga SoundTracker Music	EMD		
	Sims Archive, The	FAR		
	G Compressed Archive	GCA		
5	WinXComp Grouped Compressed Archive	GCF		
	QLFC Compressed Archive	GQ		
7	GRZip Compressed Archive	GRZ		
	GRZip II Compressed	GRZ		

	Archive			
	GZA Compressed Archive	GZA		
	WinHki Compressed Archive	НКІ		
1	ICEOWS Compressed Archive	ICE		
	Jrchive Compressed Archive	JRC		
	KBOOM Compressed Archive			
	Limit Compressed Archive	LIM		
	lzop Compressed Archive	LZO		
6	Micrognosis Compressed Archive	MCA		
7	MDCD Compressed Archive	MD		
	Broderbund Mohawk Archive	МНК		
9	MediaZip Compressed Archive	MZF		

16200P Compressed	ООР		
0Archive			
162 PAQ1 Compressed			
1Archive			
162 PAQ2 Compressed			
2Archive			
162 PAQ3 Compressed			
3Archive			
162 PAQ4 Compressed			
4Archive			
162 PAQ5 Compressed			
5Archive			
162 PAQ6 Compressed			
6Archive			
162PAKLEO	PLL		
7Compressed			
Archive			
162QuickFileCollectio	QFC		
8n Archive			
162QuArk	ARK		
9Compressed			
Archive			
163Streamline	SAR		
0Compressed			
Archive	CD C		
163 SBC Compressed	SBC		
1 Audio			
163 Spinner Baker	SB		
2eXtractor			

	npressed hive			
163Soft 3Arc	tware Game hive	SGA		
	ne World 2 ne Archive	BIG		
163 SKY 5 Arc	' Compressed hive	SKY		
	OF npressed hive	SOF		
	ish npressed hive			
8Cor	(Archiver npressed hive	SQX		
	eeze npressed hive	SQZ		
164SZij 0File	o Compressed	SZ, SZIP		
164Tra 1Cor	nsform npressed File	TFM		
164Tel 2Cor COI	npressed			
311 co	raCompressor ompressed hive	UC2		

164	WINDEV	WDZ		
	Compressed			
	Archive			
164	Warlords	XCR		
5	Battlecry Archive			
164	YAC Compressed	YC		
6	Archive			
164	BMF Bitmap	BMF		
7	Image			
164	PictureMaker Red	R8		
8	Channel Image			
	Data			
164	PictureMaker	G8		
9	Green Channel			
	Image Data			
165	PictureMaker Blue	B8		
C	Channel Image			
	Data			
	Hemera Photo-	HPI		
	Object Image			
	Total Annihilation	HPI		
	Saved Game			
	Hitachi Raster	HRF		
	Format Image			
	McIDAS System	GOE, GOES		
	Satellite Image			
165	HRU Bitmap	HRU		
5				
	WaveL Wavelet	IWC		
6	Compressed			

Bitmap				
JBIG Raster Bitmap	JBG			
Jeff's Image Format Bitmap	JIF			
JPEG Network Graphic Bitmap	JNG		Y	
JPEG-2000 Code Stream Bitmap	JPC		Y	
LuraWave Format Image	LWF			
Symbian Multi BitMap Image	MBM			
MicroDesign Area Image	MDA			
MicroDesign Page Image	MDP			
Nokia LogoManager Bitmap	NLM			
Nokia Operator (Manager) Logo Image	NOL			
XV Visual Schnauzer Thumbnail Image	Ρ7			
PGC Portfolio Graphics	PGF			

Compressed Bitmap			
166Progressive 9Graphics Image	PGF		
167AliceSoft PMS 0Bitmap Image	PMS		
167 Digital Moving 1 Picture Exchange Bitmap (Intel)	DPX		
167DrazLace IFLI 2Bitmap (C64)	DRL		
167 Enhanced 3 Compressed Wavelet	ECW		
167OpenEXR High 4Dynamic-Range Bitmap	EXR		
167Fuzzy Bitmap 5Image	FBM		
167HP-48/48sx/49 6Graphic Object Bitmap	GRO		
167SoftImage 3D 7Image	PIC		
167IBM Storyboard 8Image	PIC		
167Structured Fax 9Format Image	SFF		
168Segmented 0Hypergraphics	SHG		

Bitmap			
168SuperView 1Graphic Bitmap	SVG		
168VITec Bitmap 2	VIT, ICC		
168OS/2 Icon 3	ICO		
168Vista Graphic 4Image	VST		
168 J Wavelet Image 5 Codec Bitmap	WIC		
168CompW Bitmap 6	WLM		
168RPG Maker 7Graphic Image	XYZ		
168CloneCD Control 8File	CCD		
168CloneCD Sub 9Channel Data	SUB		
169PlayStation 0Executable	EXE		
169 Atari Disk Image 1	ATR		
169 Advanced Digital 2 Audio Compressed	ADA		
169 Audio IFF 3 Compressed Sound	AIFC, AIFF, AIF, IFF, SND		

	Adaptive Multi- Rate Audio	AMR		
	a-Pac Compressed Audio	APC		
	Cryo Interactive APC Audio	APC		
7	Monkey's Lossless Compressed Audio	APE		
	Compressed Voice File	DVF		
9	Free Lossless Audio Codec Instrument			
	Ensoniq PARIS Audio Format	PAF		
1	LA Lossless Compressed Audio	LA		
	ZyXEL Voice Audio	ZYX, ZVD		
	Sound Blaster Studio II Sound Sample	SOU		
4	Designer I Embroidery Machine Image	HUS		
	Husqvarna Home Embroidery	VIP		

	Image			
	3D Stitch Editor Embroidery Image	VP3		
	Audacity Audio Block	AU, AUF		
	Audacity Project File	AUP		
	Astrid/Quartex Advanced Audio Coding	AAC		
	DAKX Compressed Audio	DAX		
	MS Management Console Snap-in Control	MSC		
	Longest Journey, The Sound	ISS, XARC		
	Kexis Lossless Compressed Audio	KXS		
	Low Bitrate Packer Compressed Audio	LB		
171 5	Liquid Audio File	LQT		
	Need for Speed: Underground	ABK		

	Audio			
	Computerized Speech Lab Audio	NSP		
171 8	Nomad II Voice	NVF		
	OptimFROG Encoded Audio	OFR		
172 0	ReBirth Song	RBS		
	ReCycled Audio Loop Export File	REX		
	Reason Sound Bank	RFL		
3	Shorten Compressed Audio	SHN		
172 4	Reason Song	RPS		
5	Sonarc Compressed RAW PCM Audio	SNC		
	Walkman NW-S23 MP3 Archive	DAT		
	Speex Encoded Audio	SPX		
8	SPHERE Speech Recog Lexical Transcript	LTT, NDX, SRT		

172TAC Compressed 9Audio	TST			
173Pretty Good 0Privacy Virtual Disk Image	PGD			
173Macintosh 1Program (MacBinary)				
173Encapsulated 2PostScript Document (MacBinary)	EPS, EPI, EPSF, AI			
173 JPEG File 3 Interchange Format Image (MacBinary)	JPEG, JFIF, JPG, JFI, CMP, JIF, J, JPE		Y	
173Text File 4(MacBinary)	TXT, DOC, TEXT	Y		
173PKZip Archive 5(MacBinary)	ZIP			Y
173 SciTex 6 Continuous Tone Image (MacBinary)	CT, SCT, SCITEX			
173MS Windows 7Wave Sound (MacBinary)	WAV			
173WordPerfect 8Document (MacBinary)	DOC, WP, WKB, WPD, WPT, WP#	Y		

173Adobe PhotoShop	PSD, PDD			
9Image				
(MacBinary)				
174MS Works	WDB			
0 Database				
(MacBinary)				
174MS Works	WKS	Y		
1 Spreadsheet				
(MacBinary)				
174MS Works	WPS			
2Document				
(MacBinary)				
174MS Spell Checker	DIC			
3Dictionary				
(MacBinary)				
174 AutoCAD Drawing	DWG			
4(MacBinary)				
174Freehand 3	FH3			
5Drawing				
(MacBinary)				
174 FileMaker Pro File	FP, FP3, FPT, FMP			
6(MacBinary)				
174Graphics	GIF, GIFF		Y	
7 Interchange				
Format				
(MacBinary)				
174QuickTime Movie	MOV, QTM, QT			
8(MacBinary)				
174MPEG Music File	MP3, MP2,			
9(MacBinary)	MPGA			

175MPEG Animation	MPG, MPEG, MPE,			
0(MacBinary)	M1V, ENC, MPA			
175MacWrite Pro				
1 Document				
(MacBinary)				
175Macromedia	DIR			
2 Director Movie				
(MacBinary)				
175MacWrite II				
3 Document				
(MacBinary)				
175MacWrite II Model				
4(MacBinary)				
175Write Now				
5 Document				
(MacBinary)				
175MS Rich Text	RTF, DOC, WRI,	Y	Y	
6 Format Document	WBK			
(MacBinary)				
175Stufflt Mac	SIT, BIN			
7 Archive				
(MacBinary)				
175MS PowerPoint	РРТ, РРА, РОТ,	Y	Y	
8Slides	PPS			
(MacBinary)				
175Shockwave Flash	SWF			
9 <mark>O</mark> bject				
(MacBinary)				
176MS Word	DOT			
0 Template				

	(MacBinary)				
	MS Word for Mac Document (MacBinary)	MCW, DOC	Y	Y	
2	MacWrite Document (MacBinary)				
	MS Word Printer Definition (MacBinary)	PRD			
4	Quark XPress Document (MacBinary)	QXD			
	Quark XPress Template (MacBinary)	QXT			
	MS Excel Spreadsheet (MacBinary)	XLS	Y	Y	
7	Binary Data (Unknown Source) (MacBinary)	BIN			
	Mac Draw Image (MacBinary)				
	Mac Draw Pro Image (MacBinary)	MDP			
	Flash Movie (MacBinary)	FLA			

177HyperText 1Markup Language (MacBinary)	HTML, HTM, HTT, HTTP, ASP, MHT, HTA, HT?	Y		
177Extensible 2Markup Language (MacBinary)	XML, CDF, OSD, AWE, HTML, HTM	Y		
177SimpleText 3Document (MacBinary)	TXT, TEXT			
177Disk Doubler 4Archive (MacBinary)				
177MS Internet 5Connect Wizard (MacBinary)	ICW			
177MS Internet 6Explorer Shortcut (MacBinary)	URL			
177 Adobe Illustrator 7 Drawing (MacBinary)	AI, EPS			
177MS Windows 8Bitmap (MacBinary)	BMP, DIB, SYS, RLE, BIN, VGA, RLn		Y	
177Claris Impact 9Template (MacBinary)	CIT			
178Macintosh System 0File (MacBinary)				

178Macintosh Control			
1 Panel			
(MacBinary)			
178Macintosh			
2 Extension			
(MacBinary)			
178 Macintosh Finder			
3 (MacBinary)			
178Macintosh Font			
4Suitcase			
(MacBinary)			
178 Macintosh System			
5Suitcase			
(MacBinary)			
178Macintosh Alias			
6(MacBinary)			
178 Macintosh Shared			
7Library			
(MacBinary)			
178Macintosh	RSR		
8Resource File			
(MacBinary)			
178 Macintosh Desk			
9Accessory			
(MacBinary)			
179Macintosh True	TTF		
0Type Font			
(MacBinary)			
179Macintosh			
1 Keyboard Layout			

	(MacBinary)			
	Macintosh Sound (MacBinary)			
	Disk Copy Disk Image (MacBinary)			
	Midi Sequencer Music (MacBinary)	MID		
	StuffIt Self-Extrc Archive (MacBinary)			
	Compact Pro Self- Ext Arch (MacBinary)			
	BinHex Archive (MacBinary)	HQX, HEX		
	Palm OS Database (MacBinary)	PDB		
9	Palm OS Application Data (MacBinary)	PDB		
	Compactor Pro Archive (MacBinary)			
	Macintosh Disk Image (MacBinary)	DMF, DMG		

180RealLegal Binder	PEX			
2Document				
180Assembly Source	ASM, INC			
3Code File				
180MS Visual	RESOURCES			
4Studio.NET				
Compiled				
Resource				
180MS Visual	SNK, DAT, KEY			
5 Studio.NET Strong				
Name Key				
180MS Visual 6Studio.NET C#	INCR			
Incr. Build				
180MS Visual	PROJDATA			
7Studio.NET C#	INOJUATA			
Project Data				
180MS C# Source	CS		Y	
8Code				
180 PageMaker 4.0	PM4			
9Document				
(MacBinary)				
181 PKCS #7 Secure	P7M, EML, TXT	Y	Y	
0MIME Message				
181MS Outlook Rich	EML, TNEF, DAT	Y	Y	
1 Text Formatted				
Message				
181EICAR Anti-Virus	СОМ			
2 Test File				

3	Six-2-Four (624) Packed DOS Executable	СОМ		
	ICE Compressed DOS Program	СОМ		
	LGLZ Compressed DOS Program	СОМ		
6	Shrink Compressed DOS Program	СОМ		
	DIET Compressed DOS Program	СОМ		
8	PK Lite Compressed DOS Program	СОМ		
	Amiga Metafile Format	AMF, AMFF		
	Borland Graphics Video Interface	BGI		
	ICE Book Reader Book			
2	Brava Reader Content Sealed Format	CSF, SCSF		
	Claris Works Document	СWК		
4	Canon Digital Camera RAW Image (CCDR)	CRW		

5	CryptoMite Encrypted Archive			
	DjVu Document Image	DJVU, DJV		
	Digitals/Delta Map File	DMF		
	Standard CPCEMU Style Disk Image	DSK		
	MSX DOS Disk Image	DSK		
0	TeX Device Independent Document	DVI		
	Dependency Walker Image	DWI		
	DirectInput Force Feedback Effect	FFE		
3	DirectMusic Producer Segments Type	SGT		
183 4	DirectMusic Style	STY		
	EPOC16 Dynamic Link Library	DYL		
6	Euphoria Database System Database	EDB		

183Egrid32 Form 7Properties Template	EGP		
183Egrid32 Form 8	EGR		
183ElOffice 9Document Binder	EIO		
184Elite Plus 0Commander Saved Game	CDR		
184CPC Plus 1Cartridge Image	CPR		
184Extended 2CPCEMU Style Disk Image	DSK		
184DCMO6 Emulator 3Tape Image	K7		
184Unified Emulator 4Format	UEF		
184EndNote 5Connection File	ENZ		
184Morrowind: The 6Elder Scrolls Plug- in			
184Electronics 7Workbench Circuit	EWB		
184Explorations RPG 8System MapGroup Object	EGRP, EOBJ, ECHR		

	Farandole Composer Pattern	FPT		
	AutoCAD Fast- load Auto LISP	FAS		
185 1	FileSync Profile	FSY		
	FairUse Wizard Project	FUP		
	Nadeo Games File Format	GBX		
	GFA-BASIC MS- DOS Tokenized Source	GFA		
	GFA-BASIC ATARI Tokenized Source	GFA		
185 6	GIMP Brush Data	GBR		
	GIMP Pattern Data	ΡΑΤ		
185 8	PCStitch Pattern	ΡΑΤ		
185 9	GIMP Image	XCF, GZ		
	GlueMon Song/Module	GLUE		
1	DexDrive Playstation Memory Card Save	GME		

186Guitar Pro	GTP		
2Tablature			
186TreePad	HJT	Y	
3Hypertext			
Database			
186 FAR Manager Help	HLF		
4File			
186 Frontier: First	НМР		
5 Encounters Music			
186Home World 2	ROT		
6ROT Graphic			
Image			
186 Java Applet	IDX		
7Cache Index			
186 Infinity Game	ARE		
8 Engine Area			
Description			
186 Infinity Game	CHR		
9 Engine Character			
Info			
187 Infinity Game	СНՍ		
0 Engine GUI			
Elements			
187 Infinity Game	CRE		
1 Engine Creature			
Description			
187Infinity Game	SPL		
2 Engine Spell			
187 Infinity Game	TIS		
3 Engine Tileset			

187 Infinity Game 4Engine Spell Casting FX	VVC		
187 Infinity Game 5 Engine Display Info	WED		
187 Infinity Game 6 Engine World Map	WMP		
187VMware Virtual 7Disk Descriptor	VMDK		
187VMware Virtual 8Disk Image	VMDK		
187 iMelody Ringtone 9 Sound	IMY, IMELODY		
188ZoomBrowser 0Database Index	INFO		
188 Imagine Staging 1 Stage Editor File	ISTG		
188 Japan Crossword 2 Dmitry Torshin Format	JCC		
188Jigsaw Game 3	JIG		
188Trackjoy GUS 4Tracker Module	JOY		
188 Trackjoy GUS 5 Tracker Song	TJS		
188Trackjoy Block 6File	BLK		

188KazaA Playlist 7	KPL		
18864LAN Image 8	L64		
188Modern ListGeo 9Output Image	LGO		
189Compiler Library 0(MS Basic)	LIB		
189Liquid Tracker 1Song/Module	LIQ		
189MS Reader Ebook 2(LIT)	LIT		
189LegglessMusicEdit 3or Sound/Module	LME		
189Atari Lynx ROM 4Image	LNX		
189EasyGPS 5TerraByte Location	LOC		
189Hex Workshop 6Hex Editor Character Map	ΜΑΡ		
189Bleem! Memory 7Card Save	MCD		
189MathCaD 8Document	MCD		
189Matroska WebM 9Video Stream	MKV, MKA, MKAV, WEBM		
190Media Container 0Format File	MCF		

	TMPGEnc Conversion Template	MCF		
	Quake 2 Player Model	MD2		
	Quake 3 Arena Model	MD3		
	Office Document Imaging File	MDI		
	Mighty Draw DOS Library	MDL		
	Moray Wireframe Model	MDL		
	Media Descriptor CD Image Index	MDS		
	Multimedia Email Message	ME3		
190 9	Java Manifest	MF		
		MHT, EML, HTM, MAFF, MHTML	Y	
	AutoCAD Material-Library	MLI		
	NS/Elite Display Macro Object Path	МОР		
3	MapSource GPS Mapping Interface	MPS		

191 Max Payne Saved 4Game	MPS, MP2S		
191 Pocket Streets 5 Map	MPS		
191Minolta Dimage 6Raw Image	MRW		
191 MedlySound Sound 7 Module	MSO		
191 Digital Sheet 8 Music (Motorola)	MTD		
191 Finale Music 9 Score	MUS		
192MusicTime/Doom 0Sound	MUS		
192Material Exchange 1Format File	MXF		
192MOZART Music 2Document	MZ		
192Unidata NetCDF 3Graphic Image	CDF		
192GameBryo Format 4File	NIF		
192NetImmerse 5Format File	NIF		
192 Notation 6 Interchange File Format (Motorola)	NIF, RMI		
192Lightwave Norma 7Map	INMF		

192Corel Graphics	NPM			
8Draw Media Lines				
192NetStumbler NS1 9Log	NS1			
193Apollo Database 0Engine Index	NSX			
193 National Transfer 1 Format Map	NTF			
193NeroVision 2Express Project	NVC			
193Nyquist Plug-in 3	NY			
193OGG Vorbis 4Compressed Video	OGM, OGV			
193Skype 5Conversation	DAT			
193MS Windows 6Security Credential History				
193Earthlink Email 7Messages	MSF	Y	Y	
193MS TWAIN Device 8Temporary File	MTX			
193eFax Electronic 9Fax Phonebook	ADG			
194MS Cryptographic OURL Metadata				

Viewpoint iPix File	MTS		
RealJukebox Upgrade	RUP		
Adobe Acrobat Installer Support File	ITW		
MS Help 2 Merged Keyword Index	HXW, HXH, HXD, IT HXQ, HXR, EIT, H1?		
MS Compiled Toolbar Menu	СТМ		
MS Print Spooler Shadow	SHD		
Dell Certification File	DCF		
Java Shared Archive	JSA		
MS Visual Studio Toolbox Data	TBD		
Final Draft Document	FDD, FDR		
MaxBlast Localized Menu	BIN		
XnView Cache Database	DB		
PowerRegister Data	DAT		
MS Media Connect Persistent Data	тхт		

195AddWeb 5Temporary Data	ТМР		
195Python Tkinter 6Library	РҮС		
195Family Tree CD 7Catalog	CTL		
195QuickBooks & 8Family Tree Spelling Lexicon Dictionary	CLX		
195eFax Localization 9Data	DAT		
196Earthlink Email 0Filter Rules	DAT		
196 America Online 1 Instant Messenger URL Cache	DAT		
196MS Windows 2Client Download Data	DAT		
196 PhotoStudio 3 Macro	MCR		
196Adobe Color 4Profile List	LST		
196 PhotoStudio 5 Album	ABM, ALB		
196Corel Software 6Identifier/Securit y	ID, BIN		

196Corel PhotoPaint 7Palette	CPL		
196eFax Phone Book 8	ADR		
196PhotoBase 9Catalog	САТ		
197Family Tree 0System File	BIN		
197 Absolute 1 Packager Self Extracting Archive	EXE, ZIP		Y
197MS XBox 360 2Program	XEX		
197MS XBox Program 3	XBE		
197MySQL Database 4Index	MYI		
197Max Payne Data 5	MPS, MP2S		
197Obsidium Project 6	OPF		
197Symbian Oval 7Application	APP		
197Pocket CE 8Application	АРР		
197Adaptive 9Prediction Tree Encoded Image	ΑΡΤ		

198Parity Archive	PAR2		
0Volume Set			
Specification 2			
198Phoenix Visual	PBP		
1 Designer Project			
198PowerBASIC	PBU		
2Compiled Unit			
198 pcAnywhere Host 3 File	BHF		
198XProfan Compiled 4Unit	PCU		
198Paint.NET Image 5	PDN		
198Red Faction II 6Game Data	PEG		
198RS7000 OS Image 7	PGM		
198Portable Game 8Notation	PGN		
198OziExplorer Plot 9Track	PLT		
199Power Music 0Song/Module	РМ		
1993D Polygon 1Models Format	POL		
199Polynomial 2Texture Map	РТМ		
199WinHex Position 3Data	POS		

	Atari ST TOS	PRG, GEM, TTP		
	Program			
	FireFly SDK	PRJ		
5[	Designer Project			
199F	Protracker Studio	PS16		
61	16 Format			
199F	Psion Series 3	DBF		
70	Database			
199	Turbo Pascal	PSM		
89	Symbol Table			
199F	PSYCLE	PSY		
9	Tune/Song			
200/	MS Private Key	PVK		
0				
200I	nkWriter/Note	PWI, PSW		
1	Taker/Pocket			
l I	Word Document			
200F	REALbasic	RB		
2F	Project			
200 F	RocketEdition	RB		
36	eBook			
200F	RAD Developer	RCS		
40	Color Scheme			
200F	Remote Desktop	RDP		
5 F	Protocol			
	Connection			
200 F	Ray Dream Studio	RDS, 3DS, D3D		
6	Native Data			
F	Format			

200 Lotus Organiser 7 Report	REP		
200RepliGo Virtual 8Print File	RGO		
200Regcleaner 9Language File	RLG		
201 Nintendo 0 Entertainment System ROM Image	NES		
201 Drakan: Order Of 1 The Flame Saved Game	RSG		
201Warhammer 240,000 Texture	RSH		
201 Fugawi Global 3 Navigator Route	RTE		
201ZX Spectrum 4Replay File	RZX		
201NitPicker Backup 5Ipflow	S		
201 American McGee's 6 Alice Saved Game File			
201 Zoo Tycoon Game 7 File	ZOO		
201Savings Bonds 8Wizard Data	SBW		
201ShowBiz Project 9	SBZ		

202 Designer OSchematic Capture Binary File	SCH
202 Janome NH1000 1 Sewing Machine Stitch F	D JEF
202Pfaff Home 2Embroidery Image	PCS
202 Brother/Babylo 3/Bernina Embroidery	ck PES
202Viking Designer 4Embroidery Image	1 SHV
202sfArk Compress 5SoundFont	ed SFARK
202Sound Forge Pe 6Data File	IK SFK
202AutoCAD Shape 7Entities	SHX
202SpyBot-Search- 8and-Destroy Signature	SIG
202Symbian Installe 9	r SIS
203Sketch Drawing 0	SK

203 AutoSketch 1 Drawing Database	SKD		
203Sonique Docum 2with Graphics	entSGF		
203 Photono-Softwa 3 Stealther Skin	areSKN		
203Virtual TI Skin 4	SKN		
203MS Expression 5Skeletal Stroke			
203Scribus Docume 6	ent SLA, SCD, SLAZ		
203 SampleVision 7 Sound	SMP		
203Egrid32 Form 8Snippet	SNL		
203 Adventure SOS 9 Compiled Adventure Gam			
204Source Edit 0Language Definition	LNG		
204 Jose SciEditor 1 Project	SPF		
204 Pro Motion 2 Sprites Sequence/Anin on	SPR nati		

204Sprint Document 3	SPR		
204SPSS Chart Look 4	CLO		
204SPSS User Table 5Lookup	TLO		
204StockChartX Data 6	STX		
204Simple User 7Interface Toolkit Library	SUI		
204SUNTronic 8Song/Module	SUN		
204Swag Reader 9Packet	SWG		
205PlayStation 2 0Icon	SYS		
205MapInfo Spatial 1Table	ТАВ		
205Jupiter Ace Tape 2	ТАР		
205 ZX Spectrum Tape 3 File	TAP		
205Chess Tablebase 4	TBS		
205 The Bat! Address 5 Book	ABD		
205The Bat! Email 6Hives	ТВВ		

	The Bat! Hive Index	ABD		
205 8	TK3 eBook	ТКЗ		
	TextMaker Document	TMD		
	World Machine Data File	TMD		
206 1	Telemate Script	TMS		
2	Turbo Pascal Help	ТРН		
3	Symbian TomeRaider Compressed eBook Document	TR		
	Fugawi Global Navigator Tracklog	TRK		
5	Track Record Viewer TRV/TRVX Definition	TRV		
	Track Record Viewer TRV/TRVX Index	TRX		
7	MakeTZX ZX Spectrum Tape Image	TZX		
	OllyDbg Module Information	UDD		

206Cool 3D Image 9	UEZ		
207Universal Hint 0System File	UHS		
207WinUAE Saved 1State	USS		
207Virtual Calendar 2File	VCS, ICS	Y	
207PwrDev Visual 3Designer Project	VD		
207Dr. Web Anti- 4Virus Database	VDB		
207VistaDB Database 5	VDB		
207Sonic Foundry 6Vegas Video Project	VEG, VF		
207RealJukebox Data 7File	DAT		
207MS Windows 8Event Cache	BIN		
207Skype Voice Mail 9	DAT		
208McAfee Firewall 0Settings	idx, ini		
208McAfee Personal 1Firewall Data	MPF		
208WBEM Repository 2Database Map	ΜΑΡ		

	Adobe Acrobat Cache Index	IDX		
	Yahoo! Anti-Spy Quarantine Index	DAT		
	McAfee VirusScan Olympus Database	DAT		
6	MS Outlook Add-In Extensions Database	DAT		
7	MS Windows Security Credentials			
8	Yahoo! Online Protection Region File	RGN		
	Addict Spell Check Dictionary (Compile	ADM		
	Xerox Scanner Template	XST		
	Adobe Remote Patch Update	RTP		
	McAfee VirusScan Update	UPM, GEM		
	TurboTax Tax Return	ТАХ		
209 4	MM Video Email	WEM, VEM		

5	Virtual Game Station Memory Card Save	VGS		
	3GPP Multimedia File	3GP, 3GG, 3G2, 3GPP, 3GPP2, MP4, MPG		
	3GPP Multimedia File (MacBinary)	3GP, 3GPP, 3GPP2		
209 8	4X Movie Format	4XM		
9	Brian's Compression Shell Animation	BCS		
210 0	Bink Game Video	BIK, BINK		
	Sega FILM/CPK File Format	CPK, SND		
210 2	DVM Movie	DVM		
	LZA Animation/Video	LZA		Y
	ProgDVBR MPEG2 Video	MPEG, MPG		
	Wing Commander III MVE Movie	MVE		
	Nancy Codec Video	NOA		
	Nullsoft Streaming Video	NSV		

210Id Software RoQ 8Movie	ROQ		
210ScreenCam Movie 9	SCM		
211SDL Motion JPEG 0Video	MJPG, MJPEG, SMJPEG		
211 Smacker 1 Compressed Movie	SMK		
211VMware 2Configuration	VMX		
211VZ200/300 Image 3File	VZ		
211 Psion Series 3/3a 4Printer Driver	WDR		
211BlackWidow 5Website Description	WEB		
211WebShots Image 6	WB1		
211WINDEV Hyper 7File Database	FIC		
211 WINDEV Controls' 8Styles Description	GAB		
211WINDEV Report 9	WDE		
212WINDEV 0Procedures' Set	WDG		

212WINDEV 1Component Description	WDI		
212WINDEV Project 2	WDP		
212WINDEV Window 3	WDW		
212WINDEV Run-Time 4Template	WDY		
212MS Works 5Spreadsheet for DOS	WKS		
212Amiga Wanton 6Packer Song/Module	WN		
212MapInfo 7Workspace	WOR		
212Waypoint GPS 8Locations Map	WPT		
212X-Protector 9Project	XPF		
213XaoS Position File 0	XPF		
213MS Expression 3 1Graphic Image	XPR		
213XML Schema 2	XSD, XML		
213Softimage XSI 3D 3Model	XSI		

213Oren Scientific 4Wordprocessor Document	ZGT		
213Draw Native 5Drawing	ZMF		
213Zoot Database 6	ZOT		
213 Draw Native 7 Drawing (Compress+Previe w)	ZMF		
213Digital Video 8Interface Video	AVS, DVI		
213Digital Video 9Interface Image	C16, I16, I8, CMY, CMI, CMQ, IM?		
214Animatic Film 0	FLM		
214Cyber Paint 1Sequence Image	SEQ		
214Imagic 2Film/Picture Image	IC1, IC2, IC3		
214Lotus Picture 3	PIC		
214RxWord Capture 4Form	PRI		
214Crystal Decisions 5Chart Template	3TF		

214SSCE Spelling 6Lexicon Dictionary	CLX, TLX			
214MS Plotter 7Control Definition	PCD			
214XML Paper 8Specification Document (Open XML)	XPS		Y	
214 Viewpoint Scene 9 Attributes (compressed)	MTZ			
215Viewpoint Library 0(compressed)	MTJ			
215 Viewpoint 1 Executable (compressed)	MTJ			
215Viewpoint Java 2Script (compressed)	MTJ			
215 Foobar 2000 3 Columns UI Settings	FCS			
215Data Module 4Language Dictionary	DMD			
215NView Graphic 5Card Update Profile	TVP			

215	MS Windows	РМС		
	Performance			
	Monitor Chart			
	MS Pocket Access	CDB		
	Database			
_	Pscript Binary	BPD		
	PostScript Printer			
	Desc			
215	TrueType Font	TTC		
9	Collection			
216	Glyph Translation	GTT		
0	Table			
216	Unicode Font	UFM		
1	Metrics			
216	MS Windows Fax	CVR, SQM		
2	Cover Page			
	(compiled)			
216	VisioModeler	IMD		
3	(Infomodeler)			
216	BlackBerry	IPD		
4	Backup File			
216	Scenarist Closed	SCC		
5	Caption File			
216	Windows Product	DBL		
6	Activation			
	Database			
216	Zinio Media	ZMC		
7	Database			
216	ACCEL / Protel	РСВ		
8	Printed Circuit			

Board				
216VTeX Mul 9Master Fo Metrics	•	٨		
217MS Help 2 0Keyword (XML)		ζ, H1K		
217MS Help 2 1Attribute		Ą		
217MS Help 2 2Collection		C, H1C		
217MS Help 2 3of Conter (XML)		Г, H1T		
217HYSYS Sir 4	nulation HSC			
217MS Visual 5Help Con Map				
217MS Found 6Classes (A Hierarchy	MFC)			
217MS Windo 7Visual Sty (XML)		NIFEST, MAN, M		
217MS Visual 8Studio.NE Discovery	ET DB	P, DISCOMAP		

	OziExplorer Map (ASCII)	МАР		
	MS .NET Resource Schema/Template (XML)			
	Terragen Surface Map	SRF		
	Unicode Type Font	UTF		
	MS Visual C+ +.NET Project	VCPROJ, USER	Y	
4	MS Visual Studio.NET Deployment Project	VDPROJ		
218	MS Visual Studio Application Wizard	VSDIR		
6	Web Service Description Language	WSDL		
7	MS Visual Studio Wizard Configuration	VSZ		
	Crystal Decisions Chart Gradient	3WS		
9	• •	CONFIG, CFG, DEFAULT, CCH, MANIFEST, PS1	Y	

219Crystal Decisions 03D View Angles	3DA		
219MS Visual C+ 1+.NET Style Sheet	VCSTYLE		
219MS Windows 2Script File	WSF		
219MS Visual C++ 3Server Repsonse File	SRF		
219MS Data 4Transformation Services	DTS		
219MS Visual Studio 5Solution User Options	SUO		
219PageMaker 6.5 6Document	P65		
219MS Visual Studio 7Macro	VSMACRO, VSMACROS		
219MS Speech 8Recognition Engine Articles	ART		
219MS Management 9Console	MSC		
220MS Windows 0Movie Maker Project	MSWMM		
220 Polychrome 1 Recursive Format Bitmap	PRF		

220	MC Windows				
	MS Windows	SCM			
	Color Scheme				
220	Corel ClipArt	SRB, SRI			
3	ScrapBook				
220	MS Outlook	SRS			
4	Send/Receive				
	Settings				
220	PhotoImpact	UFO			
5	Graphic Image				
220	Windows Binary	BLG			
	Performance Log				
	(Win2K)				
	MS Office Data	XLSX, DOCX,	Y	Y	
	(Open XML)	PPTX, XLSM,			
	(General)	DOCM, PPTM, ???			
	()	X			
220	MS Word 2007-	DOCX	Y	Y	
8	2010 Document				
	(Open XML)				
220	MS Excel 2007-	XLSX, XLAM	Y	Y	
9	2010 Spreadsheet	, ,			
	(Open XML)				
221	MS PowerPoint	РРТХ	Y	Y	
	2007-2010				
	Presentation				
	(Open XML)				
221	X-Windows	PCF			
	Portable				
	Compiled Font				
	comprised rone				

	FileMaker Pro Font	FMF		
	Kettley Publishing Report Template	KPF		
4	Kettley Publishing Application Template	MLH		
5	MS Expedia Streets 98 Push- Pins	GPD		
6	Norton AntiVirus Live Advisor Preferences	VCPREF		
		LIVEREG, USERPROFILE		
8	Norton AntiVirus Live Update Profile	USERPROFILE		
	ExamView Question Bank	BNK		
	ExamView Performance File	PRF		
	ExamView Test File	TST		
2	Bitstream FaceLift for Word Perfect Da	PDB		
	TimeSink AdGateway	IDX, CDB		

	r		
222 PostScript Printer	PPD		
4Description			
222 Real Player Live	CHL, GD		
5Channel			
222Label Factory	JOB, PMJ		
6Deluxe Job	,		
2223D Home	PL0, PL1, PL2,		
7Architect Delux	PLn, PBn, PAn		
Floor Plans			
222Label Factory	TPL, ORG		
8 Deluxe Template			
222 Label Factory	INS		
9Deluxe Install			
File			
223Label Factory	STY		
0 Deluxe Style			
223MS Windows Error	DMP		
1Mini Dump (32-			
bit)			
223MS Dr. Watson	DMP		
2User Dump			
223PaperPort	SBC, BIN		
3 Database Map			
File			
223MS Schedule+	SCH		
4Event			
223HP Digital	CVR		
5Imaging Cover			
Page Template			

223HP Scanner 6Profile	SPF		
223 ExperVision 7 TypeReader Database	DB		
223CD-Image 8Description File	CUE		
223 Synchronized 9 Multimedia Integrated Language	SMI, SMIL		
224HP Digital Olmaging Project	CREATIVEPROJ		
224HP Digital 1Imaging Template	CREATIVETEMPL		
224HP Digital 2Imaging Logical Page Info.	LOGPAGE		
224HP Digital 3Imaging Layout	SIZE		
224HP Digital 4Imaging Theme	THEME		
224 Portrait 5 Innovations Image	PI2		
224Adobe Master 6Font Metrics	AFM		
224WordPerfect 7Help			

224WordPerfect			
8Keyboard			
Definition			
224WordPerfect			
9 Thesaurus			
225WordPerfect	PRS		
0Printer Resource			
225WordPerfect			
1 Hyphenation			
Code/Data			
225WordPerfect			
2Block			
225WordPerfect			
3Video Driver			
225WordPerfect	SET, INS		
4Setup/Installation			
Data			
225WordPerfect	DRS		
5 Display Resource			
225WordPerfect	FIL		
6 <mark>Overlay</mark>			
225WordPerfect	QRS		
7Equation			
Resource			
225WordPerfect			
8Dictionary Rules			
225WordPerfect	DOC, TXT		
9Document			
(Macintosh)			

226WordPerfect	DOC		
0Document (VAX)			
226WordPerfect			
1 External Spelling			
Dictionary			
226MS Windows	ANI, CON		
2 Animated Cursor			
(Motorola)			
226MS Windows	PAL		
3Color Palette			
(Motorola)			
226UNIX	ELF		
4 Program/Program			
Library (32-bit)			
226UNIX Program	SO		
5Library (32-bit)			
226 Atari ST MiNT	PRG, GEM, TTP		
6Program			
226MS MIDI	IDD, IDF		
7 Instrument			
Definition			
(Motorola)			
226 Madtracker Music	MTI, MT2		
8Module			
226SIDPlayer Music	SID		
9Module			
227MS Midi Musical	RMI		
0 Musical			
Instrument Song			
(Motorola)			

227Notation 1Interchange File Format (Intel)	NIF, RMI		
227MS Windows 2Wave Sound (Motorola)	WAV		
227Maya 3D Image 3(32bit; binary)	mb		
227AutoDesk 4Animator Cel Image	CEL, PIC		
227LightWave 3D 5FPBM Image	FPBM		
227Portable 6Arbitrary Map Image (Binary)	PAM		
227 Fractal Image and 7 Sequence Codec Image	WFA		
227Provector 2D 8Image	DR2D		
227Corel Metafile 9Exchange Image (Motorola)	CMX, PAT, CDR		
228GEM Metafile 0Image (Motorola)	GEM, GDI, VDI		
228GEM Metafile 1Image (Intel)	GEM, GDI, VDI		
228Rhino 3D Model 2	3DMF, 3DM		

228Ac3d 3D Model 3	AC		
228Tachyon Parallel 4Raytracer 3D Model	DAT		
228Videoscape 3D 5Model with Colored Verti	GEO		
228Videoscape 3D 6Model with Light Source	GEO		
228Videoscape 3D 7Model with Gouraud Curve	GEO		
2284D Creative 8Model (ASCII)	HRC		
228Maya 3D model 9(ascii)	ma		
229Cinema 4D V4 0Data	MC4D, CINEMA4D		
229 Object Oriented 1 Graphics Library: Mesh (ASCII)	MESH		
229MilkShape 3D 2Model	MS3D		
229Imagine 3D 3Object	TDDD, TDD		
229XGL 3D Model 4	XGL		

229AXX Archive 5	AAX		
229 ABComp Archive	АВР		
229 AKT Archive 7	АКТ		
229AR7 Archive 8	AR7		
229Squash Archive 9	ARH		
230Btoa Encoded 0File	воо		
230BTSpk Archive	BTS		
230Bzip Archive V1 2	BZ		Y
230Dpae Archive 3	DPA		
230Disintegrator 4Archive	DST		
230PPMZ2 Archive 5	PMZ		
230Powerpacker 6Archive	РР		
230 Pretty Simple 7 Archive	PSA		
230Romanian 8archiver eXpert Achive	RAX		

230 9	Reduq Archive	RDQ		
231 0	Rzip Archive	RZ		
	UNIX Shell Archive	SHAR		
	Shrinkit/Nulib/Nu File Archive	SHK		
231 3	GNU TAR Archive	TAR		Y
	Opengroup/POSIX TAR Archive	TAR		Y
	Pagestream Document	DOC		
	AmigaGuide Hypertext Document	GUIDE		
	Atari ST Guide Hypertext Document	НҮР		
	GNU Info Hypertext Document	INFO		
231 9	Turbo C Help	ТСН		
	Turbo Vision Help	TVH		
	MS Windows Card File (Win 3.x)	CRD		

232Deluxe Paint	С		
2Multi-Colour Font			
232Intellifont	LIB		
3Scalable			
Typeface			
232Deluxe Paint	М		
4Mono-Colour Font			
232Aegis Animation 5			
232Open Financial	QFX		
6Exchange Data			
232Extensible	XML	Y	
7Markup Language			
(UTF-32BE)			
232Extensible	XML	Y	
8Markup Language			
(UTF-32LE)			
232Extensible	XML	Y	
9Markup Language			
(UTF-16BE)			
233Extensible	XML	Y	
0Markup Language			
(UTF-16LE)		V	
233 Extensible	XML	Y	
1 Markup Language			
(UTF-8) 233 Free Pascal Unit			
233 THE Pascal UIIIL	PPU, PPL, PPO, PPW, PPA, PPT		
222 Javacard ADL	· ·		
233 Javacard API	EXP		
3 Export File			

233Simple ROM File 4System Image (ROMFS)	IMG		
233MS Virtual PC 5Hard Disk Image	VHD		
233eCos ROM File 6System Image (ROMFS)	ROM, FS		
233 Portable 7 Application Description (XML)	XML		
233 Extensible 8 Metadata Platform Sidecar (XML)	XML, XMP	Y	
233Timezone 9Information DB (compiled)			
234 Telix Phone Book 0	FON		
234Yahoo! Widget 1	WIDGET		
2343D Mark 2Database	3DB		
234Cadent 3D Model 3	3DM		
2344th Dimension 4Database Structure	4DB		

	Text File (UTF- 16BE)			
6	ABIF Applied Biosystems Inc. Format	AB1, FSA		
7	Audition On-line Dance Battle Music	ABM		
	ACUCOBOL-GT License	ALC, VLC		
9	ACUCOBOL-GT Intermediate Object File	ACU		
0	CaseMaker AcuBench Workspace Info.	WIF		
1	CaseMaker AcuBench Layout Structure	DLT		
2	CaseMaker AcuBench Program Structure	PSF		
	CaseMaker AcuBench Project	PJT		
	Chuzzle Saved Game	DAT		
5	EasyRecovery Saved Recovery State	DAT		

235Runtime Software 6Disk Image	DAT		
235Shareaza 7Thumbnail	DAT		
235Corel CENTRAL 8Address Book	ADB		
235ArcExplorer 9Project	AEP		
236Grace Project 0	AGR		
236 Design Your Own 1 Home Architect Drawing	AIG		
236Anfy Applet 2Generator Saved File	AJP		
236AMX Mod X Plug- 3in	AMXX		
236Adobe Download 4Manager Online Shortcut	AOM		
236Gmini Firmware 5Update	AOS		
236Monkey's Audio 6Image Link	APL		
236ApiViewer API 7Database	APV		
236ShrinkIt Apple ] 8[ Compressed Archive	BXY, BLU		

236 ZipGenius 9 Compressed Archive	CZIP		
237H2O Compressed OArchive	Н2О		
2371944: Battle of 1the Bulge Game Archive	FX		
237KGB Archiver 2Compressed Archive	KGB		
237 PAQ8x 3 Compressed Archive	PAQ8J?, PAQ8?		
237WinRK Archive	RK		
237 RKive AUdio 5 Compressed Audio	RK, RKA, RKAU		
237OneNote Note 6	ONE	Y	
237Adaptive Multi- 7Rate Wideband Audio	AWB		
237Compressed 8Square Wave Audio	CSW		
237SPPACK Audio 9	D		

238	GBG DraftMaker	D		
0	Drawing File			
	Digital Speech Standard Compressed Audio	DSS		
	Sprint Music Store Phone Music	KOZ, MP3		
	Sony OpenMG Music Format	OMA		
	TAK Lossless Compressed Audio	ТАК		
238 5	Vicar Picture	VIC, IMG		
	Nero ISO CD-ROM Compilation	NRI, NR3		
	MySQL Generic Database Dictionary	FRM		
	Phoenix Visual Designer Form	FRM		
238 9	Sonic Skin	SKN		
	TurboTax DHTML Help Index	LIF		
	ACUCOBOL-GT Index	VIX		
	MS Works Database Wizard	WWD, WDB		

239MS Visio Report 3Definition	VRD		
239MS J# Source 4Code	JSL		
239RSA Crypto Key 5	PUB, PPK, DAT		
239MS Access 6Database Template (Open XML)	ACCDT		
239OS/2 Library (32 7bit)	DLL, EXE		
239TurboTax Form 8(2)	HEFS		
239Nero Media Player 9Skin	NPS		
240Norton Spam 0Definitions	МВК		
240Norton AntiVirus 1Scheduled Tasks	SCA, RUL, DAT		
240WildTangent 2Compressed Game Data	WSAD, WSMO, WSGO, WSBM		
240Personal Home 3Page Script	PHP, PHP3, PHP4, PH3, PH4		
240Diablo 630 Escape 4Codes/Output	PRN		
240 TTA (True Audio) 5 Free Lossless Audio	ΤΤΑ		

240 Parity Archive 6 Volume Set Specification 1	PAR		
240 Debian Linux 7 Package	DEB		
240Nawk 8Programming Languaget	NAWK, GAWK, AWK		
240FrameMaker 9Dictionary			
241FrameMaker 0Screen Font			
241 Hierarchical Data 1 Format File (v5)	HDF, HE5		
241DesignWorks 2Link	DWL		
241 DesignWorks 3 Schematic	ССТ		
241 Pretty Good 4 Privacy Key/Signature Text	тхт		
241 Navy Interchange 5 File Format Image	NIFF		
241Free Graphics 6Format Image	FGF		
241GNUnet Directory 7	GND		

241AC-3 / Dolby	AC3, EAC3		
8 Digital Audio			
241 Advanced Audio 9 Coding ADTS Sound	AAC		
242BONK 0Lossless/Lossy Compressed	BONK		
Audio			
242Dolby Theatre 1System Audio	DTS		
242DEC Sound 2	SND		
242MPEG 4 3Animation	MP4, MPEG, MPG4		
242MPEG 2 Transpor 4Stream	t MP2T, MPEG		
242Sealed GIF Image 5	SGI, SGIF, S1G		
242GNU Database 6Manager File	GDBM		
242DataEase 7Database	DBM		
242KDE Desktop 8Entry			
242KDE 9Configuration			
243Xmcd CD OInformation	XMCD		

243	SysV R4 PKG	PKG		
1	Datastreams			
243	Pretty Good			
2	Privacy Public			
	Key Block			
243	Pretty Good			
3	Privacy Signed			
	Message			
243	Pretty Good			
4	Privacy Signature			
243	Pretty Good			
5	Privacy Encrypted			
	Data			
243	lchitaro	JTD	Y*	
6	Document			
243	Eet Archive	EET		
7				
243	AppleSingle MIME			
8	Format			
243	AppleDouble MIME	DAT, AD		
9	Format			
244	Atom Format	АТОМ		
0				
244	Common Name	CNRP		
1	Resolution			
	Protocol			
244	Call Processing	CPL		
2	Language			
244	DICOM Image	DICM, DCM		
3	(MacBinary)			

244Internet X.509 4Public Key DVCS Protocol	DVCS		
244 Extensible 5 Provisioning Protocol	EPP		
244Fast Infoset 6(XML)	FINF		
244HyperStudio Stack 7(MacBinary)	STK		
244MacWrite II 8(MacBinary)			
244MPEG 4 Animation 9(MacBinary)	MP4, MPEG, MPG4		
245 Material Exchange 0 Format File (MacBinary)	MXF		
245 OGG Vorbis 1 Compressed Audio (MacBinary)	OGG		
245 Presence 2 Information Data Format	PIDF		
245 Plucker 3 Document	PDB		
245 Relax NG 4Compact Syntax File	RNC		

245XML Based	CL, XML		
5 Filtering Format			
245Post-it-Notes	PWN		
6(MacBinary)			
245AceText	ATC		
7Collection			
245 Acrobat XML Data	XDP, XDC		
8Package			
245 Mac OS X Installer	DIST, DISTZ,		
9(MacBinary)	PKG, MPKG		
246 AudioGraph Video			
	MPKG		
246Cinderella	CDY		
1 (MacBinary)			
246CASLwin Program	CSP		
2			
246CommonSpace	CSP, CST		
3Document/Templa			
te (MacBinary)			
246Phone Doubler	QCALL, QCA		
4			
246 Frogans	FNC		
5Document			
246DocuFile / EDMICS	DDD		
62000			
246FuzzySheet	FZS		
7Document			
246Emu48 Emulator	KML		
8Keyboard			
Configuration			

9	Google Earth Keyhole Markup Language	KML		
	Google Earth Keyhole Markup Language (MacBinary)	KML		
	GrafEq Document (MacBinary)	GQF, GQS		
	Job Layout Language Image	JLYT		
247 3	Visionary Image	VIS		
247 4	Java Midlet	RMS		
247 5	Karbon Document	KARBON		
247 6	KChart Document	CHRT		
	KFormula Document	KFO		
247 8		FLW		
	Kontour Document	KON		
	KPresenter Slide Show (XML)	KPR, KPT		
	KSpread Document	KSP		

248KWord	KWD, KWT			
2 Document /				
Template				
248Lotus 123	123, WK1, WK3,		Y	
3Worksheet	WK4			
(MacBinary)				
248Medical	MWF			
4Waveform				
Description				
248Medical	MWF			
5Waveform				
Description				
(MacBinary)				
248NetMail/3000 /				
6 DeskLink / MS92				
File				
248MS Windows	CAB, PKG, ??Z, ??			Y
7Cabinet Archive	_, GDP			
(MacBinary)				
248OpenDocument	ODC	Y	Y	
8Chart				
248OpenDocument	ОТС	Y	Y	
9Chart Template				
249OpenDocument	ODF	Y	Y	
0 Formula				
249OpenDocument	OTF	Y	Y	
1 Formula				
Template				
249OpenDocument	ODG	Y	Y	
2 Graphics				

249 OpenDocument 3 Graphics Template	OTG	Y	Y	
249OpenDocument 4Image	ODI	Y	Y	
249OpenDocument 5Image Template	ΟΤΙ	Y	Y	
249 Open Document 6 Presentation	ODP	Y	Y	
249 OpenDocument 7 Presentation Template	ОТР	Y	Y	
249 Open Document 8 Spreadsheet	ODS	Y	Y	
249 OpenDocument 9 Spreadsheet Template	OTS	Y	Y	
250OpenDocument 0Text	ODT	Y	Y	
250OpenDocument 1Text Master	ОТМ	Y	Y	
250OpenDocument 2Text Template	ΟΤΤ	Y	Y	
250OpenDocument 3Text Web	ОТН	Y	Y	
250PowerBuilder 4Dynamic Library (MacBinary)	PBD, DLL			
250 Preminet File 5	PREMINET			

6	Web Application Description Language	WADL		
250 7	XML Encryption	XML		
8	Enhanced Variable Rate Codec Sound	EVC		
	Composite Attachment File	CAF, DAF, EM, PM		
	JungUm Office Document	GUL, BKG		
1	Mozilla Browser Extension Package	XPI		
	Lotus Approach Document	APR, MPR		
	DesignCAD Drawing	DCD		
	Capture Classic Filler Template	JDT		
251 5	OmniForm Form	OFM		
251 6	WINDEV Index	NDX		
7	MapSource GPS Waypoint Database	GDB		
	Trend Micro Pattern File	000, nnn		

	3D Movie Maker Movie	3MM		
252 0	T602 Document	602		
	Unicode Translated Fonts	NTF		
	MS Visual Studio.NET Cache	CACHE, MAP		
	Sybase Localization File	LCU		
4	MS Spell Checker Dictionary (Win95)	DIC		
	3D Studio 3.0 Image	3DS		
	3D Studio Image (ASCII)	ASC		
252 7	Alchemy Molecule	ALC		
	Alchemy 2000 Molecule	AL2		
	Direct3D Object (Text)	X, D3D, XIE		
0	Direct3D Object (Text) Compressed	X, D3D, XIE		
1	Direct3D Object (Binary) Compressed	X, D3D, XIE		

253 2	AVS Field Data	FLD		
253 3	Geom Image	GEOM		
253 4	GLF 3D Font	GLF		
	HyperChem Molecule Image	HIV		
6	International Laser Display Association 3D Image	ILD		
7	International Laser Display Association 2D Image	ILD		
	International Laser Display Association Colour Palette	ILD		
253 9	Infini-D 3D Image	INFINI		
	Impress Presentation / Template	SDD, VOR		
254 1	StarMath Formula	SMF		
	IRIT 3D Interchange Image	IRIT		

254MDL 3d Im 3(Binary)	age MDL		
254MDL 3d Im 4(Text)	age MDL		
254 Tripos MO 5 Molecule II			
254Alias/Wav 6Material Li			
254Object Ori 7Graphics L Quadrilate (Binary)	ibrary:		
254Object Ori 8Graphics L Mesh (Bina	ibrary:		
254Object Ori 9Graphics L Bezier (AS	ibrary:		
255Object Ori 0Graphics L Bezier (Bir	ibrary:		
255Object Ori 1Graphics L Objects (A	ibrary:		
255Object Ori 2Graphics L Objects (B	ibrary:		
255Object Ori 3Graphics L Vectors (A	ibrary:		

4	Object Oriented Graphics Library: Vectors (Binary)	VECT		
5	Object Oriented Graphics Library: Skeleton	SKEL		
6	Object Oriented Graphics Library: Sphere	SPH		
7	Object Oriented Graphics Library: 4x4 Transformation	INST		
8	Object Oriented Graphics Library: Multiple 4x4 Transformations	GRP, PRJ		
9	Object Oriented Graphics Library: 4x4 Transformations (Binary)	GRP, PRJ		
	PolyHedral Database	PHD		
	Polygon 3D Objects	POLY		
2	Radiance 3D Scene Description	RAD		

256ACIS 3D Mod 3	el SAT		
2563D-XplorMat 4Image	h SURF		
256 Triangular 5 Irregular Network	TIN		
256VMD 3D Imag 6	ge VMD		
256WorldBuilde 7Scene	r WLD		
256 Radiance Hig 8 Dynamic Rar Image			
256AmigaOS Dis 9Image	k ADF		
257Virtual Pasc 0Unit	al VPI		
257DigiTrakker 1Instrument	IST		
257AMusic AdLil 2Tracker Mus			
257 Digibooster 3	Music DIGI		
257DOS Sound 4Interface Kit Module Musi			
257Edlib FM tra 5Module Musi			

257Bells Whistles and 6Sound Boards Module Music	GDM		
257 Imago Morpheus 7 Module Music	IMF		
257 Jamcracker 8 Tracker Module Music	JAM		
257Musicline Module 9Music	ML		
258Protracker 3 0Module Music	MOD		
258Madtracker 1Pattern	МТР		
258iNEW Emulator 2Audio	SND		
258The Final 3Musicsystem eXtended Module Music	TFX		
258APlayer Module 4Music	UNI		
258Mikmod Module 5Music	UNI		
258MAUD Audio 6Sample	MAUD		
258IRCAM Audio 7Sample (Intel)	SF		
258IRCAM Audio 8Sample	SF		

(Motorola)			
Speex Lossy Audio Codec Raw Audio	SPEEX		
Vorbis Lossy Audio Codec Raw Audio	VORBIS		
Anivga Toolkit Sprite Image	COD		
Portable Monochrome Recursive Format Image	MRF		
Turbo Silver 24bit RGB Image	RGB8		
Turbo Silver 12bit RGB Image	RGBN		
Solitaire Image Recorder Image	SIR		
Facility for Interactive Generation File	FIG		
Corel Draw Raster (Motorola)	CDR, PAT		
Adobe Composite Font Metrics	AFM		
MS Audio/Visual Interleave (Motorola)	AVI, VFW		
Alias Wavefront Movie	MV		

	Fanta Vision Movie (IFF)	FANT			
	MS Windows Media Player Play List	ASX			
_	Perfect Office Document	DOC			
	The Bat! Email Message	EML, TXT	Y	Y	
	Thunderbird Email Message	EML, TXT	Y	Y	
	Yahoo! Mail Email Message	EML, TXT	Y	Y	
	StarCalc Spreadsheet / Template	SDC, VOR			
	StarDraw Image / Template	SDA, VOR			
260 9	Aportis Document	PDB			
	OpenOffice Drawing / Template	SXD, STD	Y	Y	
	OpenOffice Math Formula	SXM	Y	Y	
	OpenOffice Impress Presentation / Template	SXI, STI	Y	Y	

	OpenOffice Spreadsheet / Template	SXC, STC	Y	Y	
	OpenOffice Text Document / Template	SXW, STW	Y	Y	
	OpenOffice Database	ODB	Y	Y	
	MS Windows Journal	JNT, JTP			
7	MS Windows Vista Icon Cache Database	DB			
	MS Channel Definition Format	CDF-MS, CDF			
261 9	Westmead EEG	EEG			
262 0	3DX Image	3DX			
	Photoshop Color Book	ACB, 8BCB			
262 2	Psion Agenda File	AGN			
	Akai S5000/S6000 MIDI Keyboard Sample	АКР			
4	MS Works for Windows 3 Document (OLE)	WPS, WWP			

262	MS Works	WWS, WLR			
5	Spreadsheet				
	(OLE)				
262	MS Excel	XLSB	Y	Y	
6	Spreadsheet				
	(Open				
	XML,Binary)				
262	Pretty Good	ASC			
	Privacy Signature				
	(ASCII)				
262	Atlantis Facsimile	FAXX			
	Image				
	Amiga Contiguous	ACBM			
9	Bitmap				
263	Framer				
0	Animation				
263	Common Musical	CMUS			
1	Score				
263	Flow Document				
2					
263	MathVision				
3	Matrix				
263	IFF 3D Object				
4					
263	Program	PGTB			
5	Traceback				
263	Image	РМВС			
6	Professional				
	Compressed				
	Bitmap				

263	Deluxe Paint	PRSP		
7	Perspective Move			
263 8	IFF Sound Sample	SAMP		
263 9	ASDG Split File	SPLT		
	ToolMaker User Interface Design	TMUI		
	QED Symbolic Math Data Structure	TREE		
264 2	IFF Tracker Song	TRKR		
264 3	IFF YUV Image	YUVN		
	LOB Compressed Archive	LOB		
	AFX/XPFX Archive	AFX		
	Atomik Cruncher Archive			
7	Automation Compacter Archive			
	Automation Packer Archive			
264 9	Crunch Archive			
	Resident Compressor			

	Archive			
	Crunch Mania Archive			
	IFF Retargetable Graphic Image	RGFX, RGX		
	Audio Manager Module (RIFF)	АММ		
	Audio Manager Module	АММ		
	Electronic Arts Game Audio 1	ASF, AS4		
	Electronic Arts Game Audio 2	KSF		
	STOS Animation Bank	МВК		
8	AXS Realtime Analog Synthesizer Module	AXS		
	AWS Virtual Tape Image	AWS		
	DreamWorks Resource Archive	BLB		
	Core Audio Format Sound	CAF		
	Revolution Resource Archive	CLU		
	FutureVision Resource Archive	СМР		

266 Future Vision	FST		
4Movie Soundtrack			
266TrueSpace 3D 5Object (ASCII)	COB, SCN		
266MS Compress 6.22 6Archive	??\$, ??_, ?_, IBT		
266MS Compress 5.0 7Archive	??\$, ??_, ?_, IBT, CEB, EX_		
266Calamus Vector 8Graphic Image	CVG		
266DCM Music 9Module	DCM		
267Dynamic File 0Format	DFF		
267Dore Raster 1Image	DORE		
267Dynamic Process 2Format Design	DPF		
267Medical Biosignals 3Data	EBS		
267Exchange Card 4	ECARD		
267 Floppy Disk Image 5 / MBR (FAT16)	IMG, DD		Y
267Hard Disk 6Image/MBR (FAT12)	IMG, DD		Y
267Hard Disk 7Image/MBR (FAT16)	IMG, DD		Y

8lm	ard Disk age/MBR AT32)	IMG, DD		Y
9lm	ard Disk age/MBR TFS)	IMG, DD, BAK		Y
0Im	ard Disk age/MBR inux)	IMG, DD		Y
	5 Windows ogram (64 bit)	EXE, SCR, MOD, SYS, BIN, COM		
	5 Windows .NET ogram (32 bit)			
	5 Windows .NET ogram (64 bit)	EXE, SCR, MOD, SYS, BIN, COM		
		DLL, TLB, OCX, CPL, HX?		
	5 Windows .NET brary (64 bit)	DLL, TLB, OCX, CPL, HX?		
	5 Windows .NET brary (32 bit)			
	ari 7800 ROM age	A78		
	osolute Itabase	ABS		
9Da	3/TextWorks atabase Access ontrol File	ACF		

269 0	Antenna Data File	ADF		
	openEHR Archetype Definition Language	ADL		
2	Advantage Database Server Database	ADT		
	Casio Travel Phrase Database	ADT		
4	Visual Objects Application Export File	AEF		
5	Advanced Forensic Format Disk Image	AFF		
	Applixware Graphic Image	AG		
7	BlackBerry Application Loader	ALX		
269 8	ArtMoney Table	AMT		
269 9	MTV Movie	AMV		
270 0	ArmPack Archive	AP		
	Timex Data Link Watch	APP		

Applica	ation			
270AptiQu 2	iz Test	AQ1		
270 FreeAr 3 Compre Archive	essed	ARC		
270Active 4	Tutor Data	ARF		
270CD Aut 5Creato	orun r Package	ARN		
270Pro/EN 6Assemb		ASM		
	o Advanced tion Alpha e	ASS, SSA		
270Athena 8	Document	АТН		
270Terrag 9and Atı	en Light nosphere	ATM, ATMSPHR		
271AutoRE	ALM Map	AUR		
271 AutoRE 1 Symbol		AUS		
271 Avid Bi 2	n File	AVB		
271 Winam 3 Advanc Visualiz Studio	ed	AVS		

271 Artwoover	AWD		
271 Artweaver	AVVD		
4Painting			
271 Alternative Web	AWL		
5Language			
271snAPPshot ASCII	АХТ		
6 Application			
Object Template			
271AxCrypt			
7Encrypted Data			
271Z80 Music Code	AYM, AY		
8With AY Music			
271QazaR	AZA		
9 Compressed			
Archive			
272 Answer Works	MOR		
0Search Glue File			
272SSCE Spelling	SDF		
1 Lexicon Database			
272MS Windows	WMDB		
2Media			
Compressed			
Database			
272MS Windows	WMDB		
3Media Catalog			
Database			
272MS Outlook	PST		Y
4Personal			
Information Store			
(2003 - 2007)			

272Delphi Form 5	DFM			
272Delphi Source 6Code	PAS			
272MS Windows 7Backup Utility Tape Image	BAK, BKF			
272Seagate Backup 8Tape Image	BKF			
272 Extended Binary ( 9 Interchange Code				
273Wireless Markup 0Language	WML			
273Unix Fast File Sys 1 (Motorola)	tem V2 Disk Image			
273Fat Binary 2	68K, PPC			
273Text File (UTF- 332LE)				
273Text File (UTF- 432BE)				
273 Harvard Graphics 5 Symbol Image	SYW			
273Milestones 6Project	MLS			
273Skype 7Localization Data	MLS			
273MS Word 6.0/95 8Document (preOLE)	DOC, DOT, WIZ, WZS, WRI, WBK	Y	Y	

273	Brother Daisy			
	Wheel Word			
	Processor			
	Document			
274	Brother Ink Jet			
	Word Processor			
	Document			
274	Brother Notebook			
	Word Processor			
	Document			
274	Brother			
2	SPN/France Word			
	Processor			
	Document			
274	Brother SPN/UK			
3	Word Processor			
	Document			
274	DisplayWrite			
4	Document			
274	Lotus Manuscript			
5	Document			
274	MASS-11 Export			
6	Document			
274	MASS-11 Native			
7	Document			
274	WordStar 2000	WS2	Y	
8	Document			
274	XyWrite /			
9	Signature / Nota			
	Bene Document			

275Harvard Graphics 0Presentation for DOS	SHW		
275CPI XRD 1Document	СРІ		
275MS Visual C++ 2Workbench Information	VCW		
275 Skype Profile and 3 Contacts	DBB		
275Blitz3D/Max/Plus 4Texture or Mesh File	B3D		
275BlindWrite 5 5Table of Contents/Tracks	B5T		
275Hangul Word 6Processor Document	HWP		
275MS Works for Mac 74 Database/Doc/Sh eet (OLE)	DB4, WP4, SS4		
275MS Works for Mac 83 Document	WP		
275MS Works for Mac 92 Document	WP2		
276GPS Pathfinder 0Office Almanac and Base Data	SSF		

276Lotus Works	DOC			
1Document				
276MS Visual FoxPro	DBF, PJX, DBC			
2Database				
276MS Word for OS/2	DOC	Y	Y	
3 Document				
276OfficeWriter				
4Document				
276PeachText 5000				
5Document				
276Samna Word				
6Document				
276 Applixware	AS			
7 Spreadsheet				
276Simulink	MDL			
8Simulation Model				
276Matrix	MTX			
9Spreadsheet				
277Moxcel	MXL			
0 Spreadsheet				
277 Polyphonic Phone	PMD			
1 Ringtone				
277Dreamcast	SPR			
2Texture				
277PC File Index	NDX, NDS			
3				
277PC File Letter /	LTR, REP			
4Report				
277 Desk Mate	DOC			
5Document				

277Pathetic Writer 6Document	PW		
277SuperCalc 7Worksheet	CAL		
277CADS Planner 8Drawing	DRW		
277Adobe Photoshop 9Plug-in	8BI, AXT		
278WHAP 0Compressed Amiga Archive	AP		
278EA Game MOD 1	BIG, BIGF, VIV		
278MS QuickBASIC 2Source Code	BAS		
278Blizzard Texture 3	BLP		
278Blender 3D 4Project File Format	BLEND		
278Bryce 6 Scene 5	BR6		
278CISO Compressed 6ISO CD Image	CSO		
278Cinema 4D Model 7	C4D		
278Collage Maker 8Graphic	CLG		
278Canon Digital 9Camera RAW	CR2		

Image (CR)			
279ClipArt Gallery 0Download Package	CIL		
279 Power ISO Direct 1 Access Archive	DAA		
279DNL Page Turning 2e-Book	DNL		
279DirectDraw 3Surface	DDS		
279Ovation Pro 4Document	DPD		
279DriveCam Event 5Video	DCE		
279Darwin Pond 6Project	DWP		
279Media Safe 7Encrypted Data	ENC		
279SolidWorks 8eDrawings Assembly	EASM, EPRT		
279Encore Musical 9Notation	ENC		
280Eyemail Video 0Recording	EYE		
280MS Font File 1	FNT		
280Adobe Flash 2Project	FLP		

280 Autodesk 3D Data 3 Exchange Image (Binary)	FBX		
280Final Cut Pro 4Project	FCP		
280 Adobe Acrobat 5 Forms Data Format	FDF		
280Graphing 6Calculator File	GCF		
280Graphtec Vector 7Graphics Image	GSD		
280Google Video 8Playlist	GVP		
280Adobe InDesign 9Document	INDD		
281 Inspiration OConcept Map (Flowchart) Document	ISF		
281 iTunes Music 1 Database	ITL		
281 Indeo Video 2 Format	IVF		
281 Java Application 3 Descriptor	JAD		
281LDAP Data 4Interchange Format	LDIF		

281	LZMA Compressed	LZMA		
	Archive			
	Thunderbird Mail Summary File	MSF		
281		МАВ		
	Media Player Classic (MPC) Playlist	MPCPL		
	Movie Collector Catalog	MVC		
282 0	Sony Movie	MQV		
	Nero CD/DVD Image	NRG		
	PIM Compressed Archive	PIM		
	CER Internet Security Certificate	CER		
	Google Sketchup Models	SKP		
	Apple QuickTime Cache	QTCH		
	Binary Property List	NIB, QTZ		
	HyperText Markup Language (UTF-32BE)	HTML, HTM, HT? , HTTP, ASP?, MHT, HH?, XM	Y	

	·				
	HyperText	HTML, HTM, HT?,		Y	
8	Markup Language	HTTP, ASP?, MHT,			
	(UTF-32LE)	НН? <i>,</i> ХМ			
282	HyperText	HTML, HTM, HT?		Y	
	Markup Language	· · ·			
		MHT, HH?, XM			
283	X /	HTML, HTM, HT?, F		Y	
				•	
	Markup Language	ASP!, IVINT, NN!, A	IVI		
	(UTF-16LE)				
283	HyperText	HTML, HTM, HT?		Y	
1	Markup Language	,HTTP,ASP?,			
	(UTF-8)	MHT, HH?, XM			
283	Round-Robin	RRD			
	Database				
	RealMedia	RAM			
	Metafile				
		SMC			
	Super Nintendo	SIVIC			
4	System ROM				
	lmage				
283	Acronis	TIB			
5	Truelmage Disk				
	Image				
283	GroupWise User	UWL			
	Word List				
	Video CD	VCD			
203					
/					
	Working Model	WM			
8	Motion Simulation				
283	Nokia Saved SMS	VMG			
	Message				

284Wel 0	DEx Recording	WRF		
	Windows Iia Player /list	WPL		
2Dyn	InfoPath amic m/Template	XSN		
	InfoPath ument (XML)	XML, MHT	Y	
-	na Camera V Picture ge	X3F		
	ıZix npressed hive	ZIX		
284Zzip 6Arc	o Compressed hive	ZZ		
284Ghc 7Bac	st Disk kup (DOS)	001, nnn, GHO		Y
8Cou (Wi	horware Irse File thout time)	A4P		
	hos rypted / ned Data	AAS, AOS		
285Alta 0For	ir Binary mat	ABF		

	ArCon Project File	ACP		
	Windows Policy Template	ADM		
3	Windows Policy Template (Unicode)	ADM		
4	iPer Advanced Embedded Hypertext	AEH		
285 5	Affix File	AFF		
285 6	AGEMA File	AFF		
	TracerCAD Drawing	AK		
	RealFlight Radio Control Flying File	AIRPORTS		
	Aksharamala Binary Keymap	AKM		
286 0	Aley's Module	ALM		
	XSL Formatting Objects Form	FO, XML		
	A.M.Composer Music	AMC		
	Project Dogwaffle Animated Brush	ANB		

29/ Michty Fay File			
286MightyFax File	APF		
286Sony RAW Image 5	ARW		
286 freeCAD 6 assembly	ASM		
286 Aegisub Advanced 7 SubStation Alpha Subtitle (Unicode)	IASS, SSA		
286Empire Earth 1 8Data	SSA		
286Avast! Antivirus 9Skin	ASWCS		
287Antenna Project 0	ΑΤΑ		
287 iPhoto Image 1 Attributes	ATTR		
287Kaspersky Anti- 2virus Toolkit Database	AVC		
287BaDonGo File 3Information	BADONGO		
287HBasic Source 4Code	BAS		
287HEC-HMS Basin 5Model Settings	BASIN		
287ScriptBasic Binary 6File (32 bit)	/BBF		

287ScriptBasic Binary 7File (64 bit)	BBF		
287BrainBox Neural 8Net	BBX		
287Low Level Virtual 9Machine Bytecode	BC		
288Low Level Virtual 0Machine Bytecode (Compressed)			
288Brother BES-100E 1Embroidery	BDF		
288Cryo Interactive 2Game Data	BF		
288Blowfish 3Encrypted Data	BFA		
288Big Flexible Line 4Interpretation (C64) Bitmap	BFLI		
288Brother 5Embroidery Software Font	BFN		
288BitFax Document 6	BFX		
288DESI-III drawing 7	BIN		
288BIZ dVS 8Model/Object 1.0	BIZ		

288 IBM BookManager 9 Bookshelf Index	BKI		
289 IBM BookManager 0 Bookshelf	BKS		
289Cosmic Blobs 1Model	BLOB		
289America Online 2Instant Messenger Buddy List	BLT		
289EVE Online Data 3	BLUE		
289BMA Archiver 4Compressed Archive	BMA		
289 GameCube 3D 5 Model (Texture + Skeleton)	BMD		
289ByteMap Font 6	BMF		
289 Award AWBM 7 BIOS Bitmap	BMP		
289FrameMaker 8Book	FM, FRM		
289Soldat Bot 9Information	вот		
290 Buero Plus NexT 0 FlashFiler Database	BPD		
290Business Plan Pro 1Data	BPD		

290BrioQuery File 2	BQY		
290 BinSCII 3 Compressed Archive	BSC, BSQ, BNS		
290Valve Game Map 4	BSP		
290Getic 3D 5Scene/Model	BSP		
290Quake 2 Map 6	BSP		
290VTBuilder Binary 7Terrain	ВТ		
290FlightGear 8Scenery	BTG		
290DB/TextWorks 9Database Term and Word Indexes	ВТХ		
291 BvD Fileset 0	BVD		
291 BrainWave 1 Generator Binaural Beat	BWG		
291 Enot External 2Photo Viewer Settings	BWS		
291 PictureGear 3 Studio File	BXU		

4	Zone Identifier Stream (NTFS ADS)	IDENTIFIER			
5	Summary Information Stream (NTFS ADS)				
	Generic Forensic Zip Disk Image (Intel)	gfz, gfzip			
7	Generic Forensic Zip Disk Image (Motorola)	gfz, gfzip			
	IXimager Disk Image	ASB, IDIF, IRBF, IEIF			
	Windows Media (HD) Photo	WDP, HDP, WMP			
292 0	MrSID Image	SID			
1	Still Picture Interchange File Format (SPIFF)	SPIFF, SPF, JPG, JPEG		Y	
2	OGG FLAC Compressed Audio	OGG			
	Digital Moving Picture Exchange Bitmap (Motorola)	DPX			

292Open eBook	OPF			
4Forum				
Publication				
292 Mujahideen	ENC			
5 Secrets 2				
292DesignTools 2D	DTD			
6Design				
292 Desk Mate	WKS			
7Worksheet				
292 Palm OS Zire	DB			
8 Photo Database				
292 Big Tag Image File	TIFF, TIF		Y	
9Format				
5,	NTF, NITF			
OTransmission				
Format Image				
v2.x				
293Norton Disk	DAT			
1 Doctor Undo				
293CadStd Drawing	CAD			
2				
293EXTRACAD	CAD			
3Drawing				
293Capella Gallery	CAG			
4Music				
293QV Map	CAL			
5Geographic				
Coordinates				
293Capella Music	САР			
6 Sheet				

293Network Monitor 7Capture	САР		
293Snoop Capture 8	САР		
293SAPCAR Archive 9	CAR		
294CATIA Drawing 0	CATDRAWING		
294Computer 1Associates Archive	CAZ		
294MapBrowser/Map 2Writer Vector Map	CBD		
294Calendar Builder 3Saved Calendar	CBF		
294CoffeeCup Button 4Factory Button	CBF		
294Calendar Builder 5Style Sheet	CBS		
294Code Breaker 6Save	CBS		
294Multimedia Fusion 7File	ССА		
294Mactive AdBase 8Data	CDB		
294Midtown Madness 93 Data	CDDS		
295NetCDF CDL 0Metadata	CDL, NC, CDF		

295NTI	CD&DVD-	CDM		
1Mak	ker Image			
295Apa 2	lbi eBook	CEB, XEB		
	itext Free ign Grammar	CFDG		
4Airo	ht Simulator craft Ifiguration	CFG		
295Cala 5	amus Font	CFN		
Rea	id32 npilable Grid Idy to be npiled	CGF		
Rea	id32 npilable Grid Idy to be dified	CGF		
	_D Parsing tem Table	CGT		
295Chi 9Doc	Writer cument 3.x	СНІ		
296Chi 0Doc	Writer cument 4.x	СНІ		
296Chi 1Arc	le Compressed hive	CHL		
296SPS 2	S Template	CHT, SCT		

296CircuitMaker	СКТ		
	CNI		
3Schematic			
296ListPro Database	CLF, WLT		
4			
296 Click FORMS Data	CLK		
5			
296WatchGuard	CLK		
6Cloaked File			
296 DeskMate Clip	CLP		
7Art			
296Blu-ray Clip AV	CLPI		
8Stream			
296 Flash Color Table	CLR		
9			
297Logger Pro Data	CMBL		
0			
297CrystalMaker	CMD5		
1Data v5			
297CrystalMaker	CMDF		
2Data v2-4			
297Linux Compressed	CMG		
3ROM File System			
(CRAMFS)			
(Motorola)			
· · · · · · · · · · · · · · · · · · ·	CML		
297Chemical Markup			
4Language			
Document	<b>.</b>		
297Andrew Toolkit	СМИ		
5CMU File			

297	Compressed	CNDF		
	Channel Data File			
297 7	Cult3D ActiveX Player Application	CO		
8	Blackberry Compiled Java Code	COD		
	MS HTML Help Collection	COL		
	Windows Vista Contact	CONTACT		
1	Hydrologic Modeling System Control Specifications Data	CONTROL		
2	Cartesian Products Compressed Internet Document	CPC		
	AVCHD Clip Information	СРІ		
	x509 Security Certificate	CRT		
	x509v3 Security Certificate	CRT		
	Cryptx Encrypted Data	CRYPT, CRYPTX		

	Csound Unified File Format for Orchestras and Scores	CSD		
	MSN Messenger Saved Contact List	СТТ		
	AutoCAD Color- dependent Plot Style Table	СТВ		
	Clam AntiVirus Database	CVD		
	Jet-VoiceMail Audio	CVF		
2	Combustion Workspace Project	CWS		
	Crocodile Physics Simulation	СҮР		
299 4	DGIndex Project	D2V		
5	OpenDark Compressed Archive			
	Allegro Compressed Packfile	DAT		
	Allegro Uncompressed Packfile	DAT		

299AVG 6 Integrity 8Database	DAT		
299LabVIEW Binary 9Datalog	DAT		
300TomTom Traffic 0Data	DAT		
300UFOCaptureV2 1Map	DAT		
300Borland Paradox 2Database	DB		
300 PFS: First Choice 3 Document / PFS:Write	DOC, PFS, PFB		
300 PFS: First Choice 4Database / PFS:File	FOL, PFS		
300MS Works 5Database 2 for Windows/DOS	WDB		
300MS Works 6Database 3 for Windows	WDB		
300MS Works 7Spreadsheet 2 for Windows/DOS	WKS		
300MS Works 8Database 3 for Mac	DB, DB3		
300MS Works 9Database 2 for	DB, DB2		

	Мас			
0	MS Works Spreadsheet 2 for Mac	SS2, SS		
1	MS Works Spreadsheet 3 for Mac	SS3, SS		
	Symphony Dictionary	DIC		
3	Symphony Registry Database	RDB		
	Symphony Dialog Graphic Image	SDG, RDG		
301 5	Symbian Font			
301 6	Amiga Program			
7	MS Digital Rights Management License Store	HDS		
	Paradox Memo Holder	МВ		
	MS Groove System Store	XSS, XSSR		
	MS Windows Live Contacts	WIN, ADDRESSBOOK, MECONTACT		
	MS Groove System Store Log	XSSLOG		

	Device Emulator	DESS		
2	System Store			
302	AppleScript	SCPT		
3	Script			
302	WildTangent	WDAT		
4	World Data			
302	WebEx Universal	UCF		
5	Communications			
	Data			
302	Symbian File			
6	(General)			
302	Symbian Printer			
7	Driver			
302	Symbian			
8	Clipboard			
302	Symbian Sketch			
9	Image			
303	Symbian Word			
0	Document			
303	Symbian			
1	Spreadsheet			
303	Symbian EasyFax			
2	Initialization			
303	Symbian			
3	Database			
303	Symbian	INI		
4	Initialization File			
303	Symbian Library	DLL, OPX		
5				

303	Symbian Device			
	Driver			
303	Symbian Printer			
7	Definition			
	Digital Asset	DAE		
8	Exchange File			
303 9	FaceSave Image	FACE		
304 0	RTrace 3D Image	SFF, SCN		
	Standard Archive Format	SAF, POD		
	Textual 3D Data Description	TTDDD, TTD		
	Zebra Metafile	ZBR		
3				
	NeWS Font			
	Family			
	OpenFont Scalable Binary			
	OpenFont			_
	Encrypted			
	Scalable Binary			
304	X11/NeWS Bitmap			
7	Font			
304	X11/NeWS Font			
8	Family			
	Emacs RMAIL			
9	News Message			

305	MBX Mail Folder	MBX		Y
	Cyrus Skiplist Database			
	Fidonet Message Area Database	JAM, JHR		
	Kodak Photo CD overview pack	OPA, PCD		
	BSD System V AR Archive	AR		
305 5	VAX 3.0 Archive			
	BSArc/BS2 Archive	BSA, BS2		
305 7	MAR Archive	MAR		
305 8	Quantum Archive	Q		
305 9	X1 Archive	X1		
306 1	Freeze Archive			
306 2	ZPack Archive	ZPK		
306 3	Dry Archive	DRY		
306 4	FoxSQZ Archive			

306PPMZ Archive 5	PMZ		
306ARQ Archive 6	ARQ		
306PUCrunch 7Archive			
306Gather Archive 8	GTH		
306LZS221 Archive 9	LZS		
307EXP1 Archive	EXP1		
307NRV Archive	NRV		
307TOP4 Archive 2	ТОР, ТО4, Т4		
307ChiefLZA Archive			
307ARS Archive	ARS		
307NPack Archive 5			
307PFT Archive 6	PFT		
307PPMD Archive 7	PPMD		
307DC Archive 8	DC		
307TPac Archive 9			

308	Ai Archiver	AI		
0	Archive			
308	EPC Archive	EPC		
1				
308	Compressia			
2	Archive			
308	XPack Archive	ХРА		
3				
	Pretty Good			
	Privacy Signed			
	Message (ASCII)			
	Pretty Good			
5	Privacy Public			
	Key Block (ASCII)			
	Pretty Good			
6	Privacy Message			
200	(ASCII)			
	Linux Unified Key Setup Encrypted			
	Data			
308	T602 Document	602		
	(Kamenicky	002		
	Encoding)			
308	T602 Document	602		
	(CP 852			
	Encoding)			
309	T602 Document	602		
0	(KOI8-CS			
	Encoding)			

309	Vi IMproved	VIM		
	Encrypted Data			
309	Vi IMproved Swap			
2	File			
309	GNU Message			
3	Catalog (Intel)			
	GNU Message			
4	Catalog			
	(Motorola)			
	Nazgul Compiled			
5	Message Catalog			
	GnuPG Key Trust	GPG		
	Database			
	GnuPG Encrypted			
	Data			
	Gnumeric			
	Spreadsheet			
	MCrypt 2.5			
	Encrypted Data			
	MCrypt 2.2			
	Encrypted Data			
	Linux Swap File			
	(Intel)			
	Linux Kernel Boot Image			
	SYSLINUX Boot			
	Logo Image			
	WordPerfect			
	Calendar			
	Catchidai			

310PlanPerfect				
5Worksheet				
310PlanPerfect Data 6				
310Perfect Office 7Email Database				
310GroupWise 8Message		Y	Y	
310GroupWise Admin 9Database				
311CosmicBook 0Hypertext Document				
311AmigaWriter 1Document				
311Quark XPress 2Document/Templa te (Korean,Intel)	QXD, QXT, QWD, QWT, QXL, QXB			
311 Quark XPress 3 Document/Templa te (Korean,Motorola )	QXD, QXT, QWD, QWT, QXL, QXB			
311JAM Archive	JAM			
311 PMarc Archive 5	РМА			
311GTKtalog Catalog 6Archive	GTK			

311 7	MoPaQ Archive	MPQ		
	Sun Compacted Archive			
	Ultrix Compacted Archive			
	SCO Compressed Archive	LZH		
	Quasijarus Strong Compressed Archive	Z		
	Amiga XPKF Compressed Archive			
	Formatted Disk Image/Data Block			
	Smart BootManager Backup Disk Image			
	DOS Emulator Disk Image			
	Hard Disk Image/MBR (SysLinux)	IMG, DD		Y
	NetBoot Disk Image			
	Unix Fast File System V1 Disk			

Image (Inte	l)			
312Unix Fast F	ile			
9System V2 [				
Image (Inte	l)			
313Unix Fast F				
OSystem V1 [				
Image (Mote				
313 Apple UFS [ 1 Image	JISK			
313Linux				
2ext2/ext3/	ext4			
File System	Disk			
Image				
313SGI File Sys	tem			
3Disk Image				
313SGI XFS File				
4System Disk	ζ			
Image	<u>(</u> )			
313High Sierra 5ROM Filesys				
313Linux Comp				
6ROM File Sy				
(CRAMFS) (				
313RabbitGrap	,			
7Chart				
313 Reiser File	System			
8 Disk Image				
(ReiserFS)				

313 Linux Journalled			
9Flash File System			
Image			
(JFFS,Intel)			
314Linux Journalled			
0Flash File System			
Image (JFFS,Motorola)			
314u-boot/PPCBoot			
1Disk Image			
(JFFS, Motorola)			
314Linux Journalled			
2Flash File System			
2 Image (JFFS2)			
314Squash File			
3 System Disk Image			
(Squashfs,Intel)			
314 Squash File System	n Disk Image		
4 (Squashfs, Motorol	a)		
314Oracle Clustered			
5 File System Disk			
Image			
(OracleCFS)			
314Oracle ASM			
6Tagged Volume			
Image			
314Compaq/HP			
7RILOE Disk Image			
314GFS2 File System			
8Disk Image			

314FrameMaker MML 9File	MML		
315dBase 0III+/FoxBase+ Database (with memo)	DBF		
315 FoxBase 1 Database	DBF		
315dBase IV 2Database	DBF		
315dBase V 3Database	DBF		
315dBase IV 4Database (with memo)	DBF, BF		
315dBase IV 5Database (with SQL table)	DBF		
315FlagShip Database 6(with memo)	DBF		
315dBase II 7Database	DBF		
315UPX Compressed 8Executable	EXE		
315 PECompact2 9 Compressed Executable	EXE		
316 Petite 0 Compressed Executable	EXE		

1	Wise Installer Self Extracting Archive	EXE		
2	Dzip Self Extracting Archive	EXE		
3	Microsoft Installer Self Extracting Archive	EXE		
4	RAR Self Extracting Archive	EXE		Y
5	Info-Zip Self Extracting Archive	EXE		Y
6	Zzip Self Extracting Archive	EXE		
7	WinHki Self Extracting Archive	EXE		
8	InstallShield Self Extracting Archive	EXE		
9	Nullsoft Self Extracting Archive	EXE		
	MS Windows Cabinet Installer	EXE		

Self Extracting Archive			
317Ace Self 1Extracting Archive	EXE		
3173D Systems 2Stereolithography CAD Image (ASCII)	STL		
3173D Systems 3Stereolithography CAD Image (Binary)	STL		
317Encrypted Data 4(Headerless)	FLK		
317TrueCrypt 5Dynamic Volume	тс		
317PKZip Archive 6(Encrypted)	ZIP, JAR, WMZ		Y
317WinZip Archive 7(Encrypted)	ZIP		Y
317EncryptOnClick 8(Encrypted)	EOC		
317ZoneAlarm 9Firewall Debug Log	LOG		
318 Text Adventure 0 Development System Game Resources	GAM		

318 Text Adventure 1 Development System Saved Game	GAM		
318Digital UNIX Core 2Dump			
318 AMANDA Backup 3 Tape Changer Data			
318Amiga Shared 4Library			
318Amiga Library 5Data			
318Art Of Noise 6Module			
318Amiga Rigid Disk 7Block			
318Amiga DOS Disk 8			
318Amiga FFS Disk 9			
319Amiga Inter DOS 0Disk			
319 Amiga Inter FFS 1 Disk			
319Amiga Fastdir 2DOS Disk			
319Amiga Fastdir FFS 3Disk			

319Amiga Kickstart 4Disk			
319Extensible 3D 5Model	X3D		
319Nintendo Game 6Cube Movie			
319MythTV 7NuppelVideo	NUV		
319Mac OS X 8Detached Code Signature			
319 Apple Emulator 9 2IMG Disk Image (General)	2MG, 2IMG		
320Catakig Apple 0Emulator 2IMG Disk Image	2MG, 2IMG		
320 Sheppy's 1 ImageMaker Apple Emulator 2 IMG Disk Image	2MG, 2IMG		
320Sweet 16 Apple 2Emulator 2IMG Disk Image	2MG, 2IMG		
320 Bernie ][ the 3 Rescue Apple Emulator 2IMG Disk Image	2MG, 2IMG		
320ASIMOV2 Apple 4Emulator 2IMG	2MG, 2IMG		

Disk Image			
320Newton PDA 5Package Archive			
320Mac OS X 6Keychain Database	DB		
320VirtualBox Disk 7Image	VDI		
320Mac OS X Code 8Signing Requirement			
320Applixware 9Words Document	AW		
321Applixware 0Bitmap Image	АВ		
321Applixware 1Macro	AM		
321Applixware 2Builder Object			
321MIPS Archive 3			
321ArcFS RISC OS 4Archive			
321 Aster*x v1 Words 5 Document			
321Aster*x v1 6Graphic Image			
321Aster*x v1 7Spreadsheet			

321Aster*x v1 Macro			
8			
321 Aster*x v2 Words			
9 Document			
322Aster*x v2			
OGraphic Image			
322 Aster*x v2			
1 Spreadsheet			
322 Aster*x v2 Macro			
2			
322VBOX Voice			
3Message Audio			
322Blender 3D			
4Python Script			
322CGNS Advanced			
5Data Format			
Database			
322Symbian TextEd			
6Document			
322Symbian Clipart			
7 Images			
322Symbian World	DBW		
8Data File			
322 Flow Cytometry			
9Standard Data			
323Freehand 9	FH9		
0Document			
323Spline Font			
1 Database			

323FreeBSD Screen			
2Shot			
323AVG Antivirus	FIL		
3Vault			
323MAME	СНD		
4Compressed Hard			
Disk Image			
323GameBryo	KFM		
5Animation			
323GNU Compiler	GCH		
6Collection			
Precompiled			
Header			
323GIMP Gradient 7Data			
323GIMP Curves			
8Data			
323GNOME Keyring	PKR		
9			
324ACE/gr			
0Parameter Data			
(ASCII)			
324ACE/gr Fit			
1 Description Data			
324Gringotts	GRG		
2Encrypted Data			
324HP Bitmap Image			
3			
324LightWave 3D	LWLO		
4 Layered Object			

324R	Real 3D			
	Rendering			
324Y	AFA animation			
6				
	•	SSA		
	nimation			
324II 8	FF Raster Font			
	FF Vector Font			
9				
325	Aacintosh IFF			
0 P	Picture			
325 D	Deluxe Video			
	Construction Set			
	/ideo			
	Jhuru Sound			
	oftware Voice			
	Jhuru Sound			
	oftware Musical			
-				
	slandWrite Document			
	slandDraw			
	mage			
	Vingz	WKZ		
	preadsheet			
	Vingz Compiled			
<b>7</b> S	cript			
325V	Vingz Help			
8				

325MS Windows CE 9Cabinet Archive	
326QEMU Suspend 0Disk Image	IMG
326Dell BIOS Image	HDR
326MS Visual C v1 2Precompiled Header	PCH
326Netscape v3 & v 3Address Book	4 NAB
326Netscape Folder 4Cache	SNM
326 Objective Caml 5 Executable	
326Objective Caml 6Interface	CMI
326Objective Caml 7Object	СМО
326Objective Caml 8Library	СМА
326Objective Caml 9Native Object	CMX
327Objective Caml 0Native Library	CMXA
327 Objective Caml 1 Abstract Syntax Tree Implementation	

327Objective Cam			
2 Abstract Syntax			
Tree Interface			
327Octave Data			
3(Intel)			
327Octave Data			
4(Motorola)			
327 MicroStation v8	B DGN		
5CAD Drawing			
(OLE)			
327 OpenBSD Linka	ble		
6Format			
327 IBM OS/2 2.0	INF		
7Setup			
Information			
327Palm OS			
8 Application			
327HackMaster Ha 9	ck		
328 BDicty Dictiona	ry		
0	-		
328 Fire Viewer / Ima	age		
1Viewer Image			
328HanDBase			
2Database			
328 iSilo Document			
3			
328 JFile Database			
4			

328JFile Pro			
5Database			
328MobileDB			
6Database			
328 Peanut Press			
7eBook			
328QuickSheet			
8 Spreadsheet			
328SuperMemo			
9Database			
329TealDoc			
0 Document			
329TealInfo			
1 Database			
329TealMeal			
2Database			
329TealPaint Image			
3			
329ThinkDB			
4Database			
	PRC		
5Library			
329Palm OS Patch	PRC		
6			
329Mobipocket			
7eBook			
329Pulsar POP3			
8Daemon Mailbox			
Cache			

	MS Rich Text Format Document (Mac)	RTF	Y	Y	
	Netscape Browser Cookie				
	Galeon Browser Cookie				
	KDE Konqueror Browser Cookie				
	Venturi Client Key	ENC			
	QuickBooks for Windows Data (Encrypted)	QBW, TLG, ADR			
	Sybase Translation Table	UCT, UST			
6	QuickBooks for Windows Application Data	DAT			
	QuickBooks for Windows Copy File	QCF			
8	QuickBooks for Windows Accountant's Backup	QBX, QBM			
	QuickBooks for Windows Configuration	ND			

	MS Visual Studio	VSTEMPLATE		
	Project Template			
	ASP.NET Master Page	MASTER		
	ASP.NET Web Handler	ASHX		
331 3	Lego Image	LIF		
	MS Virtual Earth 3D Image	DAT		
	Wyko Vision Dataset (ASCII)	ASC		
	Google Earth Keyhole Markup Langage (Compressed)	KMZ		
	MS FrontPage Document (XML)	HTML, XML, MHT	Y	
331	Netscape Browser Bookmarks			
	Web Script Source Code	JS, ASP, HTM, HTML, HT?, INC, AS?X, BAS		
	eGram Telegram Message			
	X Windows Compiled X Keymap (Intel)	MKX		
	X Windows Compiled X	МКХ		

	Keymap			
	(Motorola)			
332	X Windows FS			
3	Dump Archive			
332	X11 Mouse			
4	Cursor			
332	xo65 Program			
5				
332	xo65 Library			
6				
332	o65 Program			
7				
332	CRDA Wireless			
8	Regulatory			
	Database			
332	MS Outlook			
9	Express Folder			
	Database			
333	MS Outlook			
0	Express Account			
	Information			
333	MS Outlook			
1	Express Offline			
	Database			
333	MS Windows Error	DMP		
2	Mini Dump (64-			
	bit)			
333	MS Windows Vista	EVTX		
3	Event Log			

333MS Windows 3.1 4Registry Hive	DAT, DA0, SAV		
333Warc Archive 5			
333VXL Computer 6Vision Data	VXL		
333OGG Theora 7Video			
333VMware NVRAM 8			
333Virtutech CRAFF 9			
334EBCDIC Text File 0(UTF-8)	TXT, TEXT	Y	
334Text File (UTF-7) 1	TXT, TEXT	Y	
334Text File 2(Unicode SCSU)	ΤΧΤ, ΤΕΧΤ	Y	
334Xerox InterPress 3Typesetting Data			
334 Texas Instruments 4Calculator Flash Upgrade	921		
334 Texas Instruments 5 Emulator Skin	Calculator		
334Tgif Drawing 6	TGIF		
334RISC OS Chunk 7File Format Data			

334 8	RISC OS Object	AOF		
334 9	RISC OS Library	ALF		
	RISC OS Executable	AIF		
335 1	RISC OS Font			
335 2	RISC OS Music			
	RISC OS Digital Symphony Sound Sample			
	RISC OS Digital Symphony Song			
	RISC OS Digital Symphony Sequence			
335 6	Glulx Game Data	ULX		
	Glulx Game Data (MacBinary)	ULX		
	Mugician Module Music			
	Sidmon 2.0 Module Music			
	Synthesis Module Music			
	Holy Noise Module Music			

336Hippel-COSO			
2Module Music			
336ECX Module			
3Music			
336CMP Archive	СМР		
4			
336 <mark>ELI 5750</mark>	ELI		
5Compressed			
Archive			
336PRO-PACK			
6Archive			
336HPA Archive 7	НРА		
336FIZ Archive	FIZ		
336DitPack Archive			
9			
337VSARC Archive			
337PDZ Archive			
337UHBC Archive 2			
337WWPack Archive	WWP		
337PAQ Archive	PAQ		
337RISC OS Squish 5Archive			

337OpenDocument			
6Database			
337PMarc SFX	РМА		
7Archive			
337PopCom SFX			
8Archive			
337 Parity Archive	PAR		
9 Reconstruction			
File			
338Pack Magic			
0Archive			
338ZET Compressed	ZET		
1 Archive			
338XPack Single			
2Archive			
338AT&T 3B2			
3Computer Core			
338SGI SoundTrack			
4Project			
338 Impulse Tracker			
5Sample			
338Impulse Tracker	ITI		
6Instrument			
338OctaMED	MED, MMD		
7Compressed			
Tracker Module			
338Symphonie			
8SymMOD Tracker			
Module			

338Digibooster Pro 9Tracker Module			
339Dynamic Studio 0Module			
339XMS Adlib Module	XMS		
339Open Cubic 2Player Module Inforation	MDZ		
339Sharp Cell Phone 3Ringing Melody			
339Synthesizer 4Generator / Kimwitu Music			
339Kimwitu++ Music 5			
339RdosPlay Raw 6Audio			
339EdLib Module 7	JCH		
339MPU-401 Trakker 8Module			
339eXotic Adlib 9Module			
340eXtra Simple 0Music Module			
340Winamp Equilizer 1Library	EQF		
340Atari ST SNDH 2Music			

340Atari ST sc68 3Music			
340Apple Filing 4Protocol Data Fork			
340 Apple Serialized 5 Typed Stream Data (Motorola)			
340 Apple Serialized 6 Typed Stream Data (Intel)			
340 Interface Builder 7 User Interface Resource (binary)	NIB		
340 Interface Builder 8 User Interface Resource (XML)	XIB, NIB		
340 Interface Builder 9 Help Index (binary)	HELPINDEX		
341 Apple Property 0 List	PLIST		
341MS Windows 1 Language Resource	DAT		
341MS Windows 2Resource Cache	DIR, CMF, MNI, TOC, HIT		
341 Pretty Good 3 Privacy Private			

Key Block (ASCII)			
341BBx Index 4			
341BBx Serial File 5			
341BBx Keyed File			
341BBx Program 7			
341 Intergraph 8 Scanned Image	СІТ		
341 Java Pack200 9 Archive	JAR		Y
342Claris Works 0Pallete	PLT		
342Claris Works 1Dictionary	MSP		
342Lzip Compressed 2Archive	LZ		
342 Diamond 3 Multimedia Document			
342 FATX File System 4 Image			
342GEOS Program 5			
342Hercules CKD 6DASD Image			

342	Hercules			
7	Compressed CKD			
	DASD Image			
342	Hercules CKD			
8	DASD shadow			
	Image			
342	Adobe PhotoShop	CSH		
9	Custom Shape			
343	PathAway Map	PRC		
0				
	VIZ dVS	VIZ		
	Model/Object			
343	VTX dVS Texture	VTX		
2				
	DAX Compressed	DAX		
	CD Image			
	Isearch Database	DBI		
	Information			
	DB/TextWorks	DBR		
	Database			
	DB/TextWorks	DBO		
6	Database			
	Directory			
	DB/TextWorks	DBS		
7	Database			
	Textbase			
	Structure			
	D-Lib Generic	DCF		
8	Bytecode			

9	Draft Choice for Windows Drawing	DCW		
	AccWare Data Dictionary	DD		
	Design Conditions Design Day Data	DDY		
	iGO Digital Elevation Map	DEM		
344 3	GRAFIT Layout	DES		
	KDE/GNOME Desktop Entry	DESKTOP		
	Dalvik Dex Exacutable/Class	DEX		
	DERIVE Math Package for Windows	DFW		
7	PhoneTools Internal Graphic Image	DGR		
	Macromedia Director Video Java Resource	DJR		
344 9	DMesh 3D Model	DMZ		
	NeatImage Profile	DNP		
345 1	Stardock Archive	DOCZIP		

345Nintendo DS nDs- 2mPeG Video	DPG		
345 DreamScene 3 Dream Animated Wallpaper	DREAM		
345MacDraw 4Drawing	DRW		
345Pro/ENGINEER 5Drawing	DRW		
345WhatsUp Gold 6Virtual Device	DSE		
345 ISIS Schematic 7 Capture Schematic	DSN		
345MS OLE Database 8Provider for ODBC	DSN		
345Daisy Container 9	DSY		
346Mac OS X Folder OInformation	DS_STORE		
346GraphicWorks 1Vector Drawing	DVG		
346DVR-Studio 2Stream	DVR		
346Project Dogwaffle 3Animation	DWA		
346CIRCAD Drawing 4	DWG		

346Dzip Compressed 5Archive	DZ		
346ArcInfo Coverage 6Export	E00		
346 Electronic Book 7 Exchange eBook	EBX		
346eDonkey 8Download Link	ED2K		
346EstImage 9Database	EDB		
347Digital Trainer 0Encrypted Score	EDF		
347eMemoPad Data 1	EDF		
347EDGE Diagrammer 2Diagram	EDG		
347EDIF Netlist 3	EDN		
347eGatherer 4Collected System Configuration Information	EG2		
347egis Encrypted 5Data	EGISENC		
347Egon Animator 6Animation	EGON		
347Easy Grade Pro 7Data	EGP		
347EasyLanguage 8Document	ELD		

	Pocket Tanks Emitter	EMI		
	eMachineShop CAD Design Drawing	EMS		
348 1	eMelody Ringtone	EMY		
	Evernote Database	ENB		
	TopStudio Encrypted Data	ENCRYPTED		
348 4	EndNote Style	ENS		
	ExamView On-line Test	EOT		
	EasyPlot Saved Data	EP, EPW, EZP		
7	Entrust Entelligence Profile	EPF		
	Earth Resource Mapping Satellite Image Header	ERS		
	Ekahau Site Survey Binary Container	ESS		
349 0	EmEditor Syntax	ESY		
	Google Earth Keyhole Overlay	ΕΤΑ		

2	Google Earth Keyhole Placemark	ETA		
	EasyWorship Bible Text	EWB		
4	Electronics Workbench Group Project	EWPRJ		
	Caxa CAD Drawing	EXB		
6	MS Encarta Encyclopedia Yearbook and Web Links Update	EYB		
7	EZGUI Designer Control Definition	EZC		
	HEC-RAS Flow Data	F01, Fnn		
	MotoRacer 3 Bike Model	F3D		
350 0	Facet Data	FACET		
	FictionBook eBook 2.0	FB2		
350 2	iGO Map	FBL		
	Autodesk 3D Data Exchange Image	FBX		

(Text)			
350FastCAD Versio 4Drawing	n <b>7</b> FC7, FCW		
350Omnis Web Clie 5Form Cache	ent FCA		
350FidoCAD Drawi 6	ng FCD		
350FidoCAD Librar 7	y FCL		
350FidoCAD Macro 8	FCM		
350 FlexiDATA 9 Database	FDD		
351Disk2FDI Flopp 0Disk Image	y FDI		
351 Floppy Disk 1 Manager Disk Image	FDM		
351Nintendo Famio 2(NES) Disk System	comFDS		
351FORMIK Form 3Data	FED		
351MS Outlook Exp 4Property Stream			
351 Adobe PostScri 5 Compact Font (MacBinary)	pt OTF, TTF		

351Adobe PostScript	ТТС		
6Compact Font	110		
Collection			
(MacBinary)			
351QuickDraw Font			
7 Resource			
(MacBinary)			
351QuickDraw Associa			
8 Resource (MacBina	ary)		
351 Apple Property	PLIST		
9List (MacBinary)			
352Mac OS Icon			
0(MacBinary)			
352Mac OS Menu			
1 (MacBinary)			
352Mac OS Dialog			
2Layout			
(MacBinary)			
352VISX image			
3(ASCII)			
352VMS VAX			
4Executable			
352Windows CD-ROM	INF		
5Autorun			
352Google Earth	KMZ		
6Compressed			
Keyhole Markup			
Language			
352VxWorks EST Flat			
7Binary Image			

AFS Volume Dump Image			
B-tree File System Image			
Dvdisaster Error Correction Data	ECC		
SE Linux Policy Database			
Linux Logical Volume Manager 1	LVM1		
Linux Logical Volume Manager 2	LVM2		
Linux Logical Volume Manager Snapshot			
Xen Saved Domain			
Lisp/Scheme Program Code			
Emacs/XEmacs Byte-Compiled Lisp	ELC		
TeXmacs Document			
Samba Trivial Database	TDB		
PostgreSQL Custom Database			

	Dump			
	XZ Compressed Archive	XZ		
	MS Chat Background	BGB		
354 3	HP LaserJet Font	HPF		
	ZoneAlarm Mailsafe Log	LDB, RDB		
5	Commodore Compressed Archive	СКІТ		
	MPEG Audio Datafile	M3D		
354 7	ObjectScript	OBS		
	MyLittleBase Database	MLB		
354 9	ABC Flowcharter	ABC		
	Clarion Application	APP		
355 1	TValue Data	TV4		
	Brooktrout Fax Image	BRK		
	ArcInfo Binary Image	HDR		

355Ricoh Digital 4Camera Image	161			
355MosASCII Graphics 5Library	MGL			
355MosASCII Project 6Workspace	MPF, MPW			
355NCR G4 Image 7	NCR			
355Nokia Group 8Graphics Image	NGG			
355Pick Ax Secure 9Graphic Image	ΡΑΧ			
356Seamless Image 0Graphic	SID			
356Storm 3D Object 1Definition	SOD			
356MS Internet 2Explorer Cache Index	DAT			
356Netscape Email 3Message	EML	Y	Y	
356Ghost Disk Image 4	GHO			
356Commodore 64 5Emulator Cartridge Image	CRT			
356Adobe Filmstrip 6	FILMSTRIP			
356MS Windows Task 7Scheduler Task	JOB			

	1			
356	Origin Project	ΟΡͿ		
8				
356	Multisim Design	MS8, MS9, MS10		
9				
357	TuneUp Style Boot	TBS		
0	Screen			
357	YanCEyWare	YBK		
1	Reader eBook			
357	LyX Document	LYX		
2				
357	Open Publication	EPUB		
3	Structure eBook			
357	MathRevolt Plot	MRP	_	
4				
357	sPlan Circuit			
	Diagram			
	Audible Audio	AA		
	Book			
	Mobipocket eBook	MBP		
	Auxiliary Data			
	Windows	MIG		
	Migration Backup			
357	LimeWire Theme	LWTP		
250				
328	Valve Texture	VTF		
	Visual Pinball	VPT		
1	Table			

358	OpenSceneGraph			
	Native Binary			
	Image			
358	Rave Reports	RAV		
3	Project			
358	Android OS Boot	IMG		
4	Image			
358	Visual Thought	VTHOUGHT		
5	Diagram			
358	WinFax Received	FXR		
6	Document			
358	OverDrive Media	ODM		
7	Console Media			
	Control			
358	Lexmark	LEMF		
8	Enhanced			
	MetaFile			
	Error Code	ECM		
9	Modeler			
	PreProcessed CD			
	Image			
	IMA4 Encoded	IMA4		
	Audio			
359	Corel Flow Image	BMF		
1				
	Navitel Navigator	NM2, NTM		
	Мар			
359	OGG Vorbis	OGM, OGV		
3	Compressed			

Video (MacBinary)			
GameCube 3D Model	BDL		
GameCube THP Video	THP		
RARC Compressed Archive	ARC		
PhotoLine Browse Index	PLB		
SpacEyes 3D Viewer Project	SPV		
ImageDisk Disk Image	IMD		
ZPAQ Compressed Archive	ZPAQ		
MyPhoneExplorer Backup	MPB		
EXP: The Scientific Word Processor Document	WXP		
HiJaak PCL Soft Font	TPF		
Scratch Finished Product	SB		
SNNS Pattern Definition	ΡΑΤ		
Project Dogwaffle Layered Bitmap	LYR		

7	CATIA ISO-10303 STEP Product Data	STEP, STP		
	ClickyMouse Macro	4CM		
	Perfect Keyboard Macro	4PK		
	Photosmart Photo Printing Album	ALBM		
	Solid Edge Assembly Document	ASM		
	Microsoft At Work Fax Document	AWD		
	Ability Office Spreadsheet (OLE)	AWS		
361 4	AutoRoute Export	AXE		
	Print Master Document	BIZ		
	Ventura Publisher Chapter	СНР		
	CADKEY Workshop Design	CKD		
	KeyCreator Design	CKD		
	Corel Photo House Image	CPS		

362	Gravity News	G		
	Database	0		
	Pro/DESKTOP	DES		
	Design			
	3	DFT		
	Solid Edge Draft Document			
		DMT		
	Street Atlas			
	Transfer File			
		DVB		
	Macro	DW/7		
	Ulead DVD	DWZ		
	MovieFactory			
	Project			
	thinkdesign CAD	E3		
	Drawing			
	Orchida	EMB		
	Embroidery			
	System Pattern			
362	MS Streets and	EST, PTM		
8	Trips / MapPoint			
	Мар			
362	FormFlow Form	FRL, FRP, FRZ		
9				
363	Greeting Card	FSN		
0	Factory Card			
363	Greeting Card	GCF		
1	Creator Project			
	GroupWise File	GWI		
	Link			

		НМК			
	Studio Card				
363	IP Document	HPD			
4					
363I. 5	3 Fax Image	I3F			
3631	maging for	IBK			
	Vindows Image Bookmark				
	AutoDesk Inventor	IDW, IPT			
/L	Drawing/Part				
3631	ntergraph	IGR			
85	SmartSketch				
	Drawing				
363I	mpromptu	IMR			
9F	Report				
3641	nformation Magic	IMR			
0	Data				
3641	nPage Document	INP			
1					
364۸	AS Encrypted		Y	Y	
25	Structured				
S	Storage Object				
3645	SigmaPlot	JNB			
3	Notebook				
3641	chitaro Document	JTD		Y*	
4(	OLE)				
3643	BD Studio Max	MAT			
5٨	Material Library				

364 Creative Writer	MAX		
6 Document 364 3D Studio Max 7 Scene	MAX		
364Minitab Project	MPJ		
364 muvee 9 autoProducer Project	MVE		
365ArcMap GIS 0Project	MXD		
365 Art Explosion 1 Publisher Pro Document	NPP		
365OmniPage 2Document	OPD		
365Solid Edge 3D CAE 3Model	PAR		
365PCB Document	PCBDOC		
365 Solid Edge 5 Packaged Collaboration	PCF		
365Harvard Graphics 6Presentation (OLE)	PR4		
365Unigraphics Part 7	PRT		
365PowerSoft 8Report	PSR		

365 PowerSoft Report 9(OLE)	PSR		
366Quexal Source 0Code	QX		
366Business Objects 1Report	REP		
366AlbumPlus Album 2	SAP		
366SAP Music 3	SAP		
366SAP Thomson Disk 4Image	SAP		
366Artista Design 5	ART		
366StormFront Skin 6	SKN		
366SnagIt Capture 7Image	SNAG		
366SolidWorks 2001 8Assembly	SLDASM		
366SolidWorks 2001 9Part	SLDPRT		
367PROMT Document	STD		
367 Ventura Publisher 1 Style Sheet (OLE)	STY		
367Photo Express 2Template	ТРХ		
367Kingsoft 3Workbook	WLS		

367Kingsoft	WPS		
4Document			
367Kingsoft	WPS		
5Document (OLE)			
367ZipForm Data	ZFX		
6			
367SQLite Database			
7			
367Safari Web	WEBBOOKMARK		
8Bookmark			
367MS Windows	KDMP		
9Crash Dump			
368MS Windows	PROVXML		
0Mobile Settings			
368Apple Workflow	WFLOW		
1			
368Grapher Image	GCX		
2			
368GarageBand	PST		
3Audio Filter			
Presets			
368EXS-24	EXS		
4 Instrument			
368GarageBand	CST		
5Custom Style			
Track Settings			
368Mac OS X Program	KEXT		
6(32bit Intel)			
368 Mac OS X Package	BOM		
7Bill of Materials			

368Ruby Script	RB		
368AutoDesk 9Animator Pro Tween Data	TWE		
369Master Tracker 0Module Music	MTS		
369Norton Guides	NG		
369AutoDesk 2Animator Pro Cel Image	PIC, MSK		
369 SGI XFS File 3 System Metadump Image			
369Sun xVM 4VirtualBox Disk Image	VDI		
369Cytovision 5Metaphases Data			
369Cytovision 6Karyotype Data			
369Cytovision FISH 7Probe Data			
369Cytovision FLEX 8Data			
369Cytovision RATS 9Data			
370Freehand 7 0Document	FH7		

1	Red Hat Package Manager Archive Delta	RPM		
	DVD Video Title Set	BUP, IFO		
3	QuickBooks for Windows Import Map	FIM		
4	QuickBooks for Windows Form Part	FP6		
5	QuickBooks for Windows Company Profile	MPR		
6	QuickBooks for Windows Object Information (XML)	QBOT		
	QuickBooks for Windows Object Information (Binary)	QBOT		
8	QuickBooks for Windows Message Database	QMD		
	MS ODBC Driver Configuration	RSP		
0	MS FoxPro Database Container	DCT		

	MS FoxPro Table Memo	FPT, DCT		
	Text File With Formatting Codes	TXT, TEXT	Y	
	Flight Recorder Data	TEXT		
	Radiance 3D Scene Octree			
371 5	Mac Draw Image	ZZZ		
	ArcView DOQ Image	DOQ, MET		
	NOAA-PMEL BBIS Data	TXT, TEXT		
371 8	PrimeOCR Output	PRO		
371 9	Linux Patch			
	NASA Imaging Radar Data			
	Adobe Acrobat Distiller Log	LOG		
	SigmaPlot Exchange File	JXF		
	Erdas Image (HFA)	HFA		
	MetaMap Technology Transfer			

372National Weather	TXT, TEXT		
5Service Forecast			
372Princeton	LOG		
6Transport Run			
Log			
372Geological Survey 7Metadata	TXT, TEXT		
372 FIFA World Cup	FFN		
8Art			
372Guild Wars Data	FFNA		
9			
373FFR Archive	FFR		
0			
373Freehand 10	FH10		
1 Document			
373Freehand 3	FH3		
2Drawing			
373Free Hide Folder 3	FHF		
373DeskMate Draw 4Image	FIG		
373DeskMate Filer	FIL		
5Database			
373Figlet Font	FLC		
6Control			
373Cumulate Draw	FMD		
7Image			
373Fractal Mapper			
8Map			

373Famtasia Movie 9Capture	FMV		
374Vue Function 0Definition	FNC		
374M.U.G.E.N Font 1	FNT		
374Yountel Unicode 2Font	FNT		
374Fallout 3 Saved 3Game	FOS		
374FloorPlan 3D 4	FP3		
374 IKEA Kitchen 5 Planner Document	FPF		
374PerFORM 6Database	FRF, FRP		
374PerFORM 7Communicator File Packet	FPK		
374PerFORM PRO 8Form	FRL		
374Sound Forge 9Project	FRG		
375EA Sports Game OGraphic Editor Image	FSH		
375GURU Data 1	FUS		

375	Kodak Camera	FW		
2	Firmware			
375	HALion Sound	FXB		
3	Sample			
375	Fuxoft AY Music	FXM		
	Chip Language			
		AFM		
	Accounting Form			
	Peachtree	DAT, DDF		
	Accounting Data			
	Sybase			
	Compressed Data			
	Macromedia	CST		
	Director Cast	700		
	MS Forms	TCS		
	Command Button	604 6		
376	HEC-RAS Data	G01, Gnn		
276	Klik'n'Dlay Cama	GAM		
	Klik'n'Play Game Data	GAM		
_	GenBank	GB		
	Sequence Record	GB		
	Nintendo	GBS		
	Gameboy Music			
	Cyberboard	GBX		
	Gamebox Data			
	Genbox Family	GCO		
	History			
	MS Math	GCW		
	Worksheet			

376Genbox Family 7History Dictionary	GDT		
376Arts & Letters 8Graphic Image	GED		
376GGFileSPlit File 9Fragment	GFS		
377Playstation 0Theme	GIM, P3T		
377Game Maker 6 1Project	GM6		
377GPS Tuner Map 2Calibration Data	GMI		
377GUEmap 3Document	GMP		
377Cyberboard Move	GMV		
377General Mesh 5Viewer Image	GMV		
377Garmin Point of 6Interest Database	GPI		
377GPS eXchange 7Data	GPX		
377Genbox Family 8History Report Options	GRO		
377Golden Software 9Boundary Data	GSB		

378GPS Tuner Map OSlices Calibration Data	GSI		
378Cyberboard 1Scenario	GSN		
378 Geometer's 2 Sketchpad Document	GSP		
378 Geometer's 3 Sketchpad Script	GSS		
378ShapeShifter 4Theme	GUIKIT		
378GoodWay Flight 5Planner Flight Plan	GWP		
378H.264/MPEG-4 6AVC Video	H264		
378HDF5 Archive 7	H5		
378 HydroCAD 8 Stormwater Modeling System Storage Chamber Definition	HCC		
378HCLab Chart 9	HCG		
379 HydroCAD OStormwater Modeling System Project	НСР		

	Hudson Entertainment Sound	HES		
	Pinnacle Studio HollywoodFX Plug-In Video Editing Data	HFZ		
	HiP Compressed Archive	HIP		
	Help Magician Help Text	HLX		
	Help Magician Project	НМР		
	DeskMate Homeword Document	HMW		
	Hallo Northern Sky Deep Sky Database	HND		
	Ventura Graphic Image	VGR		
379 9	Corel Chart	ССТ		
	Adobe Installation Archive	??_		
	NoteCenter Encrypted Notes	HNE		
	Ascendancy/Fligh t Unlimited Sound Driver	DIG		

380 Flight Unlimited 3 Compiled Resource	RES		
380HelpScribble 4Project	HSC		
380 People Putty 5 Haptek Character	HTR, HAPTAR		
380 HydroCAD 6 Stormwater Modeling System Unit Hydrograph	НՍН		
380The Hive Level 7Data	L95		
380 Art Icons Pro Icon 8 Collection	ICC		
380Direct3D Audio 9Driver	CSP		
381Neosat Fixes 0	HZF		
381 IsoBuster CD/DVD 1 Image	IBP		
381Direct3D Image 2Template	TLE		
381MS Developer 3Studio Project (Binary)	MDP, VCP		
381 Art Icons Pro Icon 4 Project	ICPR		

381MS Windows 5Performance Monitor Workspace	PMW		
381HP Printer Font 6Metrics	PFM		
381 Idle Scripting 7 Language Object Library Bytecode	IDOL		
381VobSub Filter 8Index	IDX		
381 IESNA 9 Photometric Data	IES		
382MS Golf Map 0Object	LMP		
382FrameMaker 1Graphic Image	FMV		
382Word Pro Graphic 2/ AMI Draw Vector Image	SDW		
382AutoShade 3Rendering / Slide	RND		
382dBXL Database 4	DBXL		
382DEC WPS Plus 5Document	DX, DX3, WPL		
382IBM Graphics Data 6Format Image	GDF		
382IBM Picture 7Interchange	GDF		

Format Image			
382JustWrite 8Document	лм		
382Lotus Snapshot 9	SNP		
383Mosaic Twin 0Spreadsheet	WKU, WKT		
383 PFS: First Choice 1 Spreadsheet / PFS:Professional Plan	FCS, SS		
383R:Base Database 2	RBF		
383Total Word 3Document	TW		
383Volkswriter 4Document	VWL, VW3, VW4		
383Wang PC 5Document	IWP		
383WordMARC Plus 6Document	WMC, DOC		
383Ziff Davis Bench 7Zip Archive	ZIP		
383particleIllusion 3 8Emitter Library	IL3		
383Opus Creator 9Multimedia File	ILM		
384Interlex 0Vocabulary	ILX		

	IncrediMail Address Book and Temporary Contacts	IMB		
	lmg3 Encrypted/Signed Container	IMG3		
	iMovie Project (Binary)	IMOVIEPROJ		
	Softbook eBook Import File	IMP		
384 5	CFAST Input File	IN		
	WinAHX THX Tracker Instrument			
	DS Packed Images	IPK		
	MySQL ISAM Table Handler Data	ISM		
	SimulationX Encrypted Model	ISM		
	UltraISO Disc Image	ISZ		
	iTunes Cover Flow Data	ITC		
385 2	Icy Tower Replay	ITR		
	Information Workshop Data	IW2, IWS		

385	DB/TextWorks	IXL		
	Database Index			
_	JobEditor32 Job	JBI		
	Data (ASCII)	501		
	JWPce Document	JCE		
6		JCL		
	Embedded JCL	JDBG		
	Debug			
	Information			
	BigJig Jigsaw	JG6		
	Puzzle			
385	16 Bit Adaptive	JMG		
	RLE Compressed			
	Bitmap			
386	FlowJo MAC	JO		
0	workspace			
386	Tripod Data	JOB		
1	Systems Job			
386	FishSim Add-on	JR2		
2				
386	JavaScript Bean	JSB		
3				
386	Binary	JSXBIN		
4	ExtendScript			
	Script			
386	Jw_cad Data	JWC		
5				
386	LegaSuite GUI J	JWR		
6	Walk Runtime			

386Hondata K- 7Manager Calibration data	KAL		
386Katorzer Music 8Composition	КАТ		
386KChess Notation 9	КСН		
387KeePass Password 0Database	KDB		
387 Chinese Academic 1 Journal Document	KDH		
387Google Earth 2Import Definition	KDX		
387Avira Product 3Key	KEY		
387KaraFun Karaoke 4Song	KFN		
387Kidspiration 5Document	KID		
387Knowledge 6Interchange File Format Image	KIF		
387 Microsoft Baseline 7 Security Analyzer Report	MBSA		
387BRSTM Audio 8Stream	KRAW		
387Korg 9Trinity/Triton	KSC		

Scrip	t			
388Karad	oke Song List	KSL		
0Creat	tor Song List			
388 KeyW 1	allet Object			
388Linea 2	ge II Replay	L2R		
388Lingo 3Dictio		LD2		
388Liqui 4Bytec	d Executable code	LDX		
388Lucas 5Archi	Film Data ve	LFD		
388 The A 6 Text Datab	•	LHTS		
388CIRC/ 7Libra	AD Source ry	LIB		
388OrCA 8Mode	D Library l	LIB		
388ESET 9Antiv	NOD32 irus License	LIC		
	ek Language ification le	LID		
389Quak 1Light	e Colored Data	LIT		
389Pione 2Scree	eer OEL ensaver	LKD		

389Linden Lab	LLSD		
3Structured Data			
389RPG Maker	lmu		
42000/2003 Map			
389HijackThis Log	LOG		
5			
389LaTeX Drawing	LP		
6			
389Lecturnity	LPD		
7 Multimedia			
Audio/Video/Clip			
s Presentation			
Document			
389LRC Lyric	LRC		
8			
389BroadBand eBook	LRF		
9			
390 Lexar Encrypted	LRS		
0Data			
390LOGO!Soft	LSC		
1 Comfort Circuit			
390 ABBYY Lingvo	LSD		
2Non-changaeble			
System			
Dictionary			
390 Kaspersky Lab	LST		
3Black List File			
390 Frogans Short-	LTF		
4cut			

390LabVIEW	LVM		
5Measurement			
390Livewire	LVW		
6Document			
390 Printed Circuit	LYT		
7Board Layout			
390 Need For Speed	LZC		
8Game Data			
390 MicroStation CAD	M01		
9Modification			
Resource			
391thinEdge Model	M15		
0			
391 Mobile 3D	M3G		
1Graphic			
391 Mupen 64 Movie	M64		
2Capture			
391Maya ASCII Scene 3	MA		
391Winamp3	ΜΑΚΙ		
4Compiled Script			
391NAVIGON Map 5	МАР		
391 Nascar SimRacing	MAS		
6Data			
391MATLAB Variables	MAT		
7Binary Data			
391 Multimedia	MBD		
8Builder Data			

	MBI		
9Code			
392Apple ]			
0[Document			
392Apple ][ Music	SNG, TUNE,		
1	SONG		
392 Apple Filing			
2 Protocol Resource			
Fork			
392 Apple IIgs			
3HyperCard Stack			
392 Apple Sound	SND, HCO		
4			
392NoiseTracker	MOD, SONG		
5Music			
392StuffIt Apple ]	SIT		
6 Archive			
392Brooks 3200 Slide	3200, SML		
7 Show	,		
392Apple ][ Program	OVL. RUN		
80verlay	- , -		
392Apple ][ Floppy	IMAGE		
9Disk Image			
393Apple Picture	APF		
0Format Image			
393Apple ][ Program			
1			
393SynthLAB	WAV		
2 Instrument			

393HyperStudio			
3 Sound Sample			
393PolySons Wave	PSOD, PSO		
4Sound			
393SynthLAB MIDI	SEQ, SL, BK1		
5Sequence			
393SynthLAB	BNK		
6Instrument Bank			
393 Apple IIgs System	SYSTEM		
7Configuration			
393Apple IIgs Wave	WBNK		
8Bank			
393Arc 3D Shape	3D		
9			
394Sound Smith			
0Sound			
394Music			
1 Construction Set			
Instrument			
394Music			
2Construction Set			
Song			
394EnCase Packed	ENPACK		
3EnScript			
394Adobe Acrobat	XFDF		
4Forms Data			
Format (XML)			
394Magic eXtensible	MXML		
5Markup Language			

394 6	DeskMate Song	SNG		
	DeskMate Paint Image	PNT		
394 8	DeskMate Sound	SND		
	IBM BookManager Bookshelf Book	воо		
	3D Studio Loft Image	LFT		
395 1	Agenda Database	AGB		
	Cricket Graph Font	FNT		
	Drum Blaster Title/Song	DTL		
	CMS Music Rudiments Image	PIC		
	CMS Music Rudiments Music	CMS		
	CMS Music Rudiments Lesson			
	Animation Studio Sound Effects	SEC		
	Borland Graphics Font	CHR		
	Mac OS X Program (64bit Intel)			
	Mac OS X Dynamic Library (32bit	DYLIB, KEXT		

	Intel)			
1	Mac OS X Dynamic Library (64bit Intel)	DYLIB, KEXT		
	Mac OS X Program (PowerPC 32bit)			
	Mac OS X Dynamic Library (PowerPC 32-bit)	DYLIB, KEXT		
	MS Visio Shape Stream	VSH		
	WordPerfect Document (OLE)	DOC		
6	Concatenate (CAT) Interchange File Format	IFF, FTXT, FTX, RBS		
	LIST Interchange File Format	IFF, FTXT, FTX		
	PROP Interchange File Format			
9	Resource Interchange File Format (Motorola)	RIFX, RIF, AVI, WAV, BND, RIFF		
0	Macromedia Director File (Intel)	DCR		
	Deluxe Paint Image	LBM, IFF, ILM, BBM, ILBM, BLK		

397Graficraft Image	LBM, IFF, ILM,		
2	BBM, ILBM, BLK		
397Mastercam 3Geometry	MC9		
397MMS Composer 4Song	MCF		
397Mastercook 5Cookbook File	MCF		
397CodeWarrior 6Project	МСР		
397MacDraft 7Drawing	MDD		
397MagicDraw UML 8Project	MDR		
397MultiEdit 9Configuration	ME, MEW		
398Open eBook 0	MEB		
398 MAIET Encrypted 1 File System	MEF		
398Macro Express 2Macro	MEX		
398Netscape XUL 3FastLoad Script	MFL		
398MalieGF Bitmap 4	MGF		
398 MusicIndiaOnline 5 Trident Player Music	MIA		

398	Mighty Draw	MIG		
6	Drawing			
398	Mio Technology	MIO		
7	Generic			
	Communications			
	Format			
	PhotoDraw	MIX		
	Multilayer			
	Picture			
398	MJP Video	MJP		
9				
	FreeMind Mind	MM		
	Мар			
399	Hyper File Memo	ММО		
200				
277	Monarch Model	MOD		
200	LEGO CAD Model	MODEL		
377	LLOO CAD MODEL	MODEL		
399	PlantWALK Model	MODEL		
4				
399	WinMount	MOU		
	Archive			
399	MapDraw	MPD		
6	Chemical			
	Sequence Map			
399	Video Edit Magic	MPJ		
7	Project			
399	AVCHD Playlist	MPL		
8				

	Blu-ray Movie Playlist	MPLS		
	Moove Resource Description	MPZ		
	CSI Markup Drawing	MRK		
	Canon BJ Driver Database Table	TBL		
400 3	PowerShell Script	PS1		
	ASP.NET Browser Definition	BROWSER		
400 5	MS Build Targets	TARGETS		
	MS Help 2 VTopic Set (XML)	H1V		
	MS Windows Group Policy Settings	ADMX		
	Windows Update Package	MUM		
	Windows ELS Transliteration Index	NLT		
	Windows Update Status	GRL		
	Windows Word Dictionary	WWD		
	Windows Driver Public	VP		

	Verification			
_	Key(s)			
	•	IMD		
3	Method Editor			
	Dictionary			
401	MS Office 2007-	THMX, EFTX		
4	2012 Theme			
	Effects (Open			
	XML)			
401	Random or			
5	Encrypted Data			
	(Headerless)			
401	Compressed Data			
6	(Headerless)			
401	SolidWorks	EASM		
7	eDrawings			
	Assembly			
	(Compressed)			
401	Ability 1.0 Word			
8	Processing			
	Document			
401	Ability 1.0			
9	Spreadsheet			
402	Ability 1.0			
0	Graphics Image			
402	Ability 1.0			
1	Database			
402	Ability 1.0			
2	Database Master			
	Form			

402	Ability 1.0			
	Communications			
	Data			
402	IBM Plans+	~MD		
	Spreadsheet			
	Model Definition			
402	Super Project			
	Plus			
402	Jazz Worksheet			
6				
402	Jazz Worksheet			
7	(MacBinary)			
402	Jazz Database			
8	(MacBinary)			
402	Jazz Form			
9	(MacBinary)			
403	Jazz			
0	Wordprocessor			
	Document			
	(MacBinary)			
403	Jazz Graphics			
1	Image			
	(MacBinary)			
403	Jazz Communicatio	ons Terminal Data		
2	(MacBinary)			
403	Windows DVD	MSDVD		
3	Maker			
403	Digital Sheet	MTD		
4	Music (Intel)			

I I

	Simulator Definition			
	Gambit Control	NEU		
	Folio Infobase Document	NFO		
405 1	NMEA GPS Log	NMEA, NMA		
2	MikroTik RouterOS Upgrade Package	NPK		
	Xilinx Integrated S Environment Proje			
	Nero CD Audio Compilation	NRA		
	Lode Data Network File	NTW		
	NUnit Test Project	NUNIT		
	NUT Open Container	NUT		
405 8	NVIDIA Scene	NVB		
	Navisworks Document	NWD		
406 0	Mybase Database	NYF		
	NanoZip Compressed Archive	NZ		

	Adobe Portable Document Format (PDF/A-1a)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/A-1b)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/X)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/A)	PDF	Y	Y	Y	
406 6	ORTIM Zeit Data	OB3				
7	DB/TextWorks Database Terms and Words	OCC				
	openCanvas Image	OCI				
	Open Financial Connectivity File	OFC				
	Openlab Raw Format	OLRW, OLR				
	OMAX Make Tool Path Data	OMX				
2	OtsAV Media Library Information	ОМХ				
	MS Office Upgarde Control	OPC				

	Data			
	Durango Interferometry Document	OPD		
	OmniPass Exported User	ΟΡΙ		
	Origin Analysis Pack	ОРК		
	PhotoScore Document	ОРТ		
	OpenStreetMap GPS Data	OSB		
	OptionScope Worksheet	OSC		
408 0	Autopano Project	ото		
	OnlineTvRecorder Encoded Video	OTRKEY		
	OziExplorer Map (Binary)	OZF2		
	PowerArchiver Encrypted Archive	PAE		
	Personal Ancestral Family Database	PAF		
	Paint Shop Pro Palette	PAL		
408 6	Pando Package	PANDO		

408 Power B. 7 Configu		PB		
408Sprite B 8Mobile I Image	ackup	PBF		
408 Apple P 9 Builder Project	-	PBXPROJ		
409CADSTA 0Circuit I Design		РСВ		
409P-CAD D 1	atabase	РСВ		
409PipeDre 2Docume		PD		
409Merriam 3Webste Dictiona	r's Pocket	PDB		
409Pepakur 4Designe Craft Pa	r Paper	PDO		
409Print Sh 5Graphic	•	PDS		
409Adobe P 6Graphic Wavefo	Peak	РЕК		
409 Formatt 7 Portable		PFF		
409Opented 8STB Soft	•	PGM		

409Brother Home 9Embroidery Image	РНС		
410 iGO Phoneme GPS 0 Data	PHR		
410 Viking Embroidery 1 Disk	PHV		
410PackJPG 2Compressed JPEG Image	PJG		
410Wiped Data 3(zeroes)			
410Hard Disk 4Image/MBR	IMG, DD		Y
410iWork Keynote 5Presentation	KEY	Υ*	
410iWork Pages 6Document	PAGES	Υ*	
410iWork Numbers 7Spreadsheet	NUMBERS	Y*	
410MS Windows Vista 8Event Message	ΜΤΑ		
410HyperText 9Markup Language 5	HTML,HTM,HT? ,HTTP,ASP?, MHT,HH?,XM	Y	
411Chief Architect 0Plan	PLAN		
411MS Messenger 1Plus! Backup Configuration	PLD		

2	MS Messenger Plus! Encrypted Chat Log	PLE		
	PhotoLine Image Document	PLD		
	Panasonic SD Voice Editor File	PLM		
	MS Messenger Plus! Sound Pack	PLP		
6	Crouzet Logic Software M3 project	PM3		
	Pixela Digital Picture	PME		
	Sony Playstation Portable Movie	PMF		
	Photomerge Composition	PMG		
0	MS Windows Performance Monitor Log	PML		
1	MikuMikuDance PolygonMovieMak er File	РММ		
	PhotoModeler Project	PMR		
	SPSS Portable Data (ASCII)	POR		
	Yahoo! Messenger Voice Mail	POST		

412PuTTY Private 5Key	РРК		
412Magical Security 6Encrypted File	PPENC		
412PowerProducer 7Project	PPP		
412ProShow 8Workspace / Slide Show	PPR, PSH		
412PingPlotter 9Script	РРХ		
413Atheros Profile 0	PRF		
413Nord Modular G2 1Performance Data	PRF2		
413SmartAssembly 2Project	{SA}PROJ		
413HSQLDB 3Configuration	PROPERTIES		
413Password Safe 4Database	PSAFE3		
413MS Windows 5Backup Password (XP/Vista)	PSW		
413PageWunder 6Document	PWF		
413 PSU Designer 2 7 Project	PSU		

413	PassMark	РТ		
	PerformanceTest			
	Data			
413	LiveNote Portable	PTF		
	Transcript			
414	ArtRage Project	PTG		
0				
414	Adobe Premiere	PTL		
1	Pro Title			
414	PTgui Project	PTS		
2				
414	GoBe Productive	PVE		
3	Document			
414	Design & Print	PVN		
4	Business Edition			
	Document			
414	Password Boss	PWB		
5	Database			
414	Password Tracker	PWT		
6	Deluxe Tracking			
	List			
414	Pixie Paint	PXI		
7	Drawing			
414	Pixelmatro	PXM		
8	Graphic Image			
414	Python Bytecode	РҮС		
9				
415	PlayReady Video	PYV		
0				

415 Poser Scene	PZ3		
1Document			
415GraphPad Prism 2Project	PZF		
415MS Office Quick 3Access Toolbar Information	QAT		
415QuickBooks for 4Windows Backup	QBB		
415MS QuickBASIC 5Coordinates	QCF		
415Miliki Super 6Compressor Pro Archive	QCF		
415Statler Stitcher 7Design	QLI		
415 Qpress 8 Compressed Archive	QP03		
415Avira AntiVir 9Quarantined File	QUA		
416QlikView 0Document	QVW		
416Create A Quiz 1Exam	QZ		
416QuizPro Quiz 2	QZD, QZS, QZE		
416Fuji CCD-RAW 3Graphic Image	RAF		

416Resume Builder 4 4Resume	RB4		
416Molfile Reaction 5Data	RD		
416R Saved 6Workspace	RDATA		
416Yaesu Radio 7Memory Image	RDF		
416Real-DRAW 8Image	RDW		
416Atari ST Guide 9Reference Links	REF		
417 IDRISI Raster Olmage Reference	REF		
417REKO Cardset	REKO, RKP		
417Revolution 2MetaCard Stack (Text)	REV		
417 Revolution 3 MetaCard Stack (Binary)	REV		
417RoboForm 4SafeNote/Passcar d Database	RFN, RFP, RFX		
417 RoboForm Cache 5	RFO		
417MikroTik 6RouterOS Debug Dump	RIF		

417 Remote Keys			
7Profile			
417RealMedia Secure 8Clip	RMX		
417SpaceCAD Rocket 9Design	ROC		
418RAR Password 0Cracker Project	RPC		
418ARMovie Video 1	RPL		
418MicroStation CAD 2Symbology Resources	RSC		
418Symbian 3Application Resource	RSC		
418FLEXIT Multishot 4Survey Raw Data	RSY		
418RandyTab Guitar 5Tablature	RTAB		
418RagTime 6Document	RTD		
418RTE Encoded File 7	RTE		
418Rune Map 8	RUN		
418Navitel Navigator 9Map	RUS		
419RWSD Audio 0Stream	RWSD		

	Mindstorms Robotics Invention System Executable	RXE		
	Resco Encrypted File	RXF		
	MDL Chemical reaction format	RXN		
	File Crypt Encrypted File	RZX		
	Java Script Source Code (Unicode)	JS, ASP, HTM, HTML, HTT, HTC, ASPX, ASCX	Y	
	Encrypting File System Stream (NTFS ADS)	???\$EFS, DAT		
419 7	Squeak Package	SAR		
419 8	SAS Database	SAS7BDAT		
419 9	SatHawk Data	SAT		
	Daemon Tools Pro Disk Image	SAV		
	Free Download Manager Data	SAV		
	SerialBox Serial Numbers Package	SB2		

3	Small Business Publisher Document	SBPF		
4	NOMAD MP3 Manager Voice Audio	SC4		
5	ChemWindow Standard Chemistry Data	SCF		
6	Tina Pro for Windows V6.0+ Package Schematics	SCH, TSC		
	Sinclair Disk Image	SCL		
8	Movie Magic Screenwiter Document	SCW		
	SuperMap World GIS Database	SDB		
	ArcGIS Geospatial Data	SDC		
1	System Deployment Image	SDI		
2	DB/TextWorks Database Deferred Update Directory	SDO		

3	CaptiveWorks Satellite Channel Database	SDX			
	Hitec Aurora 9 Model	SET			
5	Playstation 3 Game Disc Description	SFB			
	MS Word 2007- 2010 Document+Macros (Open XML)	DOCM	Y	Y	
7	MS Word 2007- 2010 Template (Open XML)	DOTX	Y	Y	
	MS Word 2007- 2010 Template+Macros (Open XML)	DOTM	Y	Y	
9	MS Excel 2007- 2010 Spreadsheet+Mac ro (Open XML)	XLSM	Y	Y	
0	MS Excel 2007- 2010 Template (Open XML)	XLTX	Y	Y	
	MS Excel 2007- 2010 Template+Macros (Open XML)	XLTM	Y	Y	

	MS PowerPoint 2007-2010 Presentation+Mac ros (Open XML)	РРТМ	Y	Y	
	MS PowerPoint 2007-2010 Template (Open XML)	ΡΟΤΧ	Y	Y	
	MS PowerPoint 2007-2010 Slides (Open XML)	PPSX	Y	Y	
	MS PowerPoint 2007-2010 Slides+Macros (Open XML)	PPSM	Y	Y	
	OneNote Note (XML)	ONE, XML, HTM, MHT		Y	
422 7	7-Zip Self Extracting Archive	EXE			Y
	MagicQ Lighting & Video Show	SHW			
	Motorola RAZR Flash Image	SHX			
	ShipInBottle Compressed Archive	SIB, SHINBO			
	Sibelius Music Score	SIB			

423a-squared Anti- 2Malware Signatures	SIG		
423Panda Signatures 3	SIG		
423Symbian Series 3 4Installer	SISX		
423SkinCrafter Skin 5	SKF		
423Motorola RAZR 6Phone Skin	SKI		
423Show.kit 7Template	SKS		
423Smart Install 8Maker Project	SMM		
423Spartan Molecule 9Model	SMOL		
424Sc2gears Mouse 0Print Data	SMPD		
424Super Nintendo 1Movie	SMV		
424Drive SnapShot 2Partial Disk Image	SN1, SNn		
424Drive SnapShot 3Disk Image	SNA		
424M.U.G.E.N. 4Sound	SND		
424Sniffer Capture 5	SNF		

424Korg Song 6	SNG		
424Snoop Capture 7	SNOOP		
424Quartus II SRAM 8Object	SOF		
424SignPlot Traffic 9Sign	SP		
425Spectral Data 0	SPA		
425Skype Extra Plug- 1 in	SPARC		
425WinView CCD 2Camera Image	SPE		
425StruCAD 3D 3Model	SPF		
425Spider Solitaire 4Saved Game	SPIDERSOLITAIR		
425Spartan Spinput 5Job	SPINPUT		
425Site Publisher 6Project	SPJ		
425DiskStation DSM 7package	SPK		
425id Software 8Sprite	SPR		
425 Live for Speed 9 Single Player Replay	SPR		

426Sangduck Sprite	SPR		
426SharkPort Saved 1PS2 Games	SPS		
426Winamp Signal 2Processing Studio DSP-Effect	SPS		
426Squeeze Project 3	SQZ		
426FreeMotion Flash 4Movie	SQF		
426SR2 Compressed 5Archive	SR2		
426SuperREP 6Compressed Archive	SREP		
426Garmin Vechicle 7Images	SRF		
426ScreenSwift 8ScreenSaver Project	SSP		
426SmartSniff Saved 9Packets	SSP		
427Sonic Scenarist 0SubTitles	SST		
427 Fanuc 1 Parameters	ST1H		
427Star 3 MIDI 2Karaoke Song	ST3		

4272D Fighter Maker 3Second Stage	STAGE		
427WI-Scan Log 4	STD		
4273D World Studio 5Material	STF		
427Infinity Game 6Engine Store	STO		
427PRO100 3D 7Interior Design Project	STO		
427SuperTux Saved 8Game	STSG		
427FTK Imager 9Image	AD1		
428Symantec 0LiveState Recovery Image	SV2I		
428StarView 1Metafile	SVM		
428Flash Video 2Debug	SWD		
428Settlers II Map 3	SWD		
428SWiSH Project 4	SWI		
428Swish-e Index 5	SWISH-E		
428Taverna 6Workbench	T2FLOW		

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	Workflow			
	Definition			
	thinBasic Console Script (Obfuscated)	TBASICCX		
	MS Visual Studio Symbol Cache	SYMCACHE		
	ZX Spectrum State Snapshot	SZX		
0	DB/TextWorks Database Primary Textbase Definition	ТВА		
	thinBasic GUI Script (Obfuscated)	TBASICX		
	DB/TextWorks Database Menu Screen	ТВМ		
	Psion Series 3 eBook	TCR		
429 4	SlamDB Database	TDB		
	TinyDisk Meta File	TDF		
	TECkit Compiled Mapping	TEC		
	Black And White 2 Terrain Data	TER		

429Terragen Terrain 8	TERRAIN, TER		
429Croteam Texture 9	TEX		
430TEXinfo Source	TEXI, TEXTINFO		
430FormTool Gold 1Form	TFM		
430Terragen 2 World 2Data	TGD		
430MDL Molfile 3Transportable Graphic Image	TGF		
430Tree Generator 43D Tree	TGF		
430Terragen 2 5World	TGW		
430Thor Compressed 6Archive	THR		
430AVCHD Thumbnail 7Index	TID		
430TI Interactive 8Workbook	ТІІ		
430 Infinity Game 9 Engine Compressed Tileset	TIZ		
431 Taijin Media Net 0 Karaoke Song	TJN		

	Wintec Tools GPS	TK1		
1	log			
431	tKC Cracking	ТКС		
2	Tutorial			
431	TimeLiner 5.0	TL5		
3	Timeline			
431	Aurora Engine	TLK		
4	Talk Table			
431	AZZ Cardfile	TMP		
5	Database (RTF)			
431	AZZ Cardfile	ТМР		
6	Database (ASCII)			
431	Nero Audio Peak	TMP		
7				
431	TI-Nspire OS	TNO, TNC		
8	Image			
431	TI-Nspire CAS OS	TNC		
9	Image			
432	TI-Nspire	TNS		
0	Document			
432	TI-Nspire	TNSP		
1	PublishView			
	Document			
432	Toast CD Image	TOAST		
2				
432	Waltop Digital	ТОР		
3	Ink-pad Graphic			
	Image			
432	TopSolid Project	TOPPRJ		
4				

432TinkerPlots	TP		
5Document			
432TexMod Package 6	TPF		
432Tochal Package 7	ТРК		
432TR Assistant 8Dictionary	TRD		
432Star Wars 9Galaxies Archive	TRE		
433Garmin GPS PCX5 0Track Data	TRK		
433Magellan GPS 1Waypoint Data	TRK		
433Ports of Call 2Saved Game	TRP		
433 Traverse PC 3 Desktop Survey Data	TRV		
433Qt Translation 4Source	TS		
433TatukGIS Project 5	TTKGP		
433TVgenial Skin 6	TVGSKIN		
433TeamViewer 7Video Session	TVS		
433Celestia Font 8Texture	TXF		

433 9	DVD TEXT Data	TXTDT		
	Assembly Manifest Store	ΑΜΧ		
	Assembly Manifest Index	AUX		
	Blu-ray Disc Movie Index	BDMV		
	Blu-ray Disc Movie Object	BDMV		
	QuickBooks for Windows Component File Search Dictionary	CFS		
	MS Help Library Index	MSHI		
	SolidWorks 2001 Drawing	SLDDRW		
	Universal 3D Image	U3D		
	WinCC User Archive Export	UAP		
	Samsung YP-P2 Theme	UCI		
	Crazy Machines Model	UCM		
1	Universal Classification Standard Database	UCS		

	UC Browser Theme	UCT		
	VBA32 Antivirus Signature	UDB		
	NHTSA UDS-1992 Crash Test Data	UDS		
	Sierra Generations Geneology Family	UDS		
	Ellisys Visual USB Data	UFO		
435 7	UMD Photobook	UMD		
	Ulead Private Data	UPD		
	Uniprint Unified Printer Parameter	UPP		
436 0	AppFace Skin	URF		
	USeq Genome Data	USEQ		
	EVGA Precision X Skin	USF		
	ThemeEngine Theme/Skin	USKN		
	EAGLE User- Specific Parameters	USR, EAGLERC		

436SafeGuard 5PrivateCrypto Encrypted Archive	UTI		
436Emergency 3D 6Model	V3O		
436Vis5D Dataset 7	V5D		
436Virtual CD v4 log 8	VBL		
436VisualBoyAdvance 9Movie Capture	VBM		
437Visualization of 0Compiler Graph	VCG		
437 Avira AntiVir 1 Virus Database	VDF		
437Adobe InDesign 2Document (XML)	IDML	Y	
437 VisiForm Form 3	VFT		
437Creative Webcam 4Video Effects Pack	VFZ		
437Video Game 5Music	VGM		
437Yamaha PSR-9000 6Custom Voice	VIC		
437ViX Image 7Catalog	VIX		

437VMware	VLCL		
8 Localization			
437Ashlar-Vellum	VLM		
9Drawing			
438Vocaloid Motion			
0 Data			
438VirtuaNES Movie	VMV		
1 Capture			
438Sony Ericsson	VNT		
2 Mobile Phone			
Note			
438Valve Package	VPK		
3			
438Garmin Voice	VPM		
4			
438Vox Proxy Macro	VPM		
5			
438Visual Paradigm	VPP		
6 for UML Project			
438Avast!	VPU		
7Setup/Update	110		
Package			
438Ventrilo Audio	VRF		
	VIXI		
8 Recording			
438Geospatial Data	VRT		
9Abstraction			
Library			
439ParaView Legacy	VTK		
0VTK Data			

439 ParaView VTK	VTR		
1Rectilinear Grid			
439ParaView VTK	VTS		
2Structured Grid			
439Indeo Video	IFV		
3 Format Extension			
439Voxel Animation	VXL		
4			
439Solo Explorer	W2M		
5Transcription			
439Black and White 2	WAL		
6Wall Data			
439MultiBit Wallet	WALLET		
7			
439WinBreadboard	WBD		
8Circuit Schematic			
439eBeam	WBD		
9Whiteboard			
440WebShots Image	WBZ		
0			
440WinGenea Family	WDF		
1Tree			
, , , , , , , , , , , , , , , , , , , ,	WDL		
2Exchange			
Document			
4403D WohnungsPlan	WDS		
3Project			
440Weather Tool	WEA		
4Weather Data			

	Wolfenstein Weapon Definition Script	WEAP		
	WebM Multimedia Container	WEBM		
	MS SharePoint Web Part	WEBPART		
440 8	EViews Workfile	WF1		
_	AWG Waveform Data Point	WFM		
441 0	Wings 3D Mesh	WINGS		
	MS Visual Studio Work Item Query	WIQ		
	Xara Internal Graphic Image	WIX		
	VISI-Series CAD Work File	WKF		
	Adobe AIR Application	AIR		
	MS OLE 1.0 Native Compound Package			
	MS SharePoint Workspace	GRV		
7	MS SharePoint Workspace Tool Archive	GTA		

4 4 4	CatTaut Dantahla			
		РО		
	Object			
441	WeatherLink	WLK		
9	Weather Data			
442	MSC Nastran	WM3		
0	Desktop			
	Document			
442	Wink	WNK		
1	Presentation			
442	Web Open Font	WOFF		
	Format Package 1	_		
	5			
	ACT! Word	WPA		
	Processor			
	Document			
442	iSeries Client	WS		
4	Access			
	WorkStation			
	Profile			
442	Wise Script	WSE		
5				
442	Whisper 32	WSP		
	Passwords			
	Windwos Sidebar	WSSTYLES		
	Style			
_	Media Center	WTV		
	Recorded			
	Television Show			
117				
	WhatsUp Gold	WUP		
9	Network Map			

112 Vokogowa	WVF		
443Yokogawa			
0Oscilloscope			
Captured Data			
443Must Music Audio	WVZ		
1			
443WYSIWYG Design	WYG		
2			
443Parasolid CAD	X_T		
3Model	-		
443DarkCryptTC	XDC		
4Encrypted File			
Container			
	DAT		
443MS Windows	DAT		
5Isolated Storage			
Data			
443McAfee VirusScan	ETL, BAK		
6Log			
443Chrome Local	LDB, SST		
7Database			
443MS Windows			
8 Recycled File			
Reference			
443MS Windows	DB		
9Cache Database			
444Norton Security	DAT		
0Log	57.11		
<b>_</b>			
444McAfee VirusScan	DAT		
1Configuration			
Data			

	xfit XDD Format Data	XDD		
	WinArchiver Extended Disc Image	XDI		
444 4	LCDStudio Design	XDS		
	XenoDream Graphics Data	XEP		
6	Primavera Project Management Exchange	XER		
	XeX Web Page Definition	XEX		
	Binary Device Interface File Format	XFB		
9	GraphEdit Filter Graph Markup Language (XML)	XGR		
	XACT Global Settings	XGS		
	Hotbar Compressed Skin Image	XIP		
	Bitdefender Plug- in	XMD		
	MediaForge Runtime Player	XMFG		

	Distribution Project			
	XNA Game Studio Binary Package	XNB		
445 5	XPilot NG Map	XP2		
	KiriKiri Adventure Game System Package	ХРЗ		
7	LCDStudio Configuration Playlist	XPL		
445 8	Xset Plug-in	XPL		
9	Microsoft Dynamics AX Export (ASCII)	ХРО		
	Microsoft Dynamics AX Export (UTF)	ХРО		
	MonkeyJam Exposure Sheet	XPS		
	Timeless Multi- user Time and Expense Data	TMD		
3	JasperReports JasperPrint Document	JRPRINT		
	SAS Transport XPORT Format	ХРТ		

446XQue	erv	XQ, XQM, XQY		
	ce/Module			
446XESS 6	Worksheet	XS3, XS4, XS5		
446XAC1 7	r Sound Bank	XSB		
446XTrk 8	CAD Project	ХТС		
	step Xtreme ne Pack	XTREME		
447Xbox 0Inter	360 User face	XUI		
447 Decla 1 Data		XWF		
447XAC1 2	Г Wave Bank	ХWВ		
447WinF 3	Plot Chart	XWP		
447XZP 4	Container	XZP		
447YUV 5Vide		Y4M		
447Oute 6Vide	erra Captured o	YOG		
447 BYOE 7	3 Project	YPR		
447BYO 8	3 Sprite	YPR		
447ZMoo 9Mode		Z3D		

448HLGuard Z	ZCFG
OConfiguration	
448ZX-Edit	ZED
1 Document	
448ZeroG Subtitles	ZEG
2	
448Zope Binary	ZEXP
3Export	
448ZjStream Page	ZJS
4Description	
Language	
(Motorola)	
448ZjStream Page	ZJS
5Description	
Language (Inte	
448MS Outlook	
6 Journal Object	. 71
448 Easy CD Creato	<sup>-</sup> ZL
7Drag To Disk Data	
448ZMA Impedance	ZMA
8 Response Data	
448Sage Backup	
9	
449Novell ZENworl	s ZMG
0 Desktop	
Management	
Image Archive	
449ZSNES Movie	ZMV
1 Capture	

449Zune Playlist 2	ZPL
449 Zillions of Game	es ZSG
449ZSNES Saved 4State	ZST
449 Zsync Metadata 5	ZSYNC
449 ZBrush ZTool 6 Native Saved To Configuration	ZTL DOL
449 Visual Paradign 7 for UML License Key	
449Psion Compress 8eBook	ed ZVR
449Safe Media 9Recorded Voice	ZVR
450 ZiLOG Develope 0 Studio Workspace	er ZWS
450 Speculator 97 1 Shapshot	ZX82
450ZX-Modules Met 2Archive	ta ZXB
450 ZX-Editor Secor 3 Edition Docume	
450ZX-Paintbrush 4Image	ZXP

450 SWiSH Max 5 Multimedia Effects	SFX				
450Chrome Safe 6Browsing IP List					
450Chrome Browser 7Cache					
450MS Cryptnet URL 8Cache Metadata					
450 Chrome Browser 9 Saved Session					
451Chrome Plug-In 0Application	CRX				
451MS F# 1 Optimization and Signatures	OPTDATA, SIGDATA				
451iPhoto Library 2Thumbnails	DATA				
451 Finder Backup 3 Burnable Archive Book Mark					
451iBooks Asset 4					
451OneDrive Sync 5Log	ODL				
451 Adobe Portable 6 Document Format (PDF/A-2a)	PDF	Y	Y	Y	
451Adobe Portable 7Document Format	PDF	Y	Y	Y	

	(PDF/A-2b)					
451 8	Bio-Rad Scan	1SC				
	Infinity Game Engine Rule Set	2DA				
	Nintendo DS Sound Format Rip	2SFLIB				
	Adobe Portable Document Format (PDF/A-2u)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/A-3a)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/A-3b)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/A-3u)	PDF	Y	Y	Y	
	360-Degree Desktop Image	360				
452 6	3Doku Game Data	3DOKU				
452 7	3GPP Audio	3GA				
	PolySpace Check Results	СНК				
	GoDot 4-bit Graphics Image	4BT				

453	777 Compressed	777		
0	Archive			
453	AZZ Cardfile	~		
1	Index			
453	SPACK Archive	SIP		
2				
453 3	LZ Archive	LZ		Y
453	Apple II Finder	DATA		
4	Index			
453	Apple II Macro	MACRO, MAC,		
5		MACS, TXT		
453	MS Windows Vault	VSCH		
6	Schema			
	MS Windows Vault	VPOL		
	Policy			
		STORE		
8	AddIn Store			
	Index			
	Zemana Threats	ZDB		
	Database			
	MS Visual Studio	VSDCONFIG		
0	Debugger			
	Configuration			
454 1	NuGet Package	NUPKG		
454	MS Help	MSHC		
2	Container			
454	Adobe AIR Signed	SPI, ACX, CFG		
3	Package			

454	MS Windows Store	ΑΡΡΧ		
	App Package			
454 5		DACPAC		
6	QuickBooks Auto Correction Dictionary	SOT		
	MS LightSwitch Package	LSPKG		
	MS Visual Studio Extension Cache	CACHE		
	MS Visual Studio Extension	VSIX		
0	McAfee Quarantined File Details	BUP		
1	MS Visio 2013 Document (Open XML)	VSDX	Y	
	MS Visio FoxPro Memory Variables	MEM		
	HP Raster Printer Driver Objects	RPO		
	MPEG Movie Fragment			
	Brother Printer Driver	ВСМ		

455	Chrome	BDIC		
6	Dictionary			
455 7	Intuit Form Index	FDFI		
	Norton QBackup Data	QBD, QBI		
	Quickbooks Printer Settings	QBP		
456 0	MS Exchange/Outlook Offline Storage (2003-2010)	OST		Y
456 1	MS Exchange/Outlook Offline Storage (2013)	OST		Y
	MS Event Trace Log	ETL		
	Localization Resource Package	РАК		
	Quickbooks Segment Data			
	MS Windows JavaScript Resources	RESJSON		
	MS Visual Studio Shell	PKGDEF		
	MS Visual Studio IntelliSense Code	SNIPPET		

	Snippet					
	MS SQL Server Breadcrumb	BC				
	CoffeeScript JavaScript	COFFEE				
	Quickbooks Backup Log	SYB				
	WinZip Archive (Advanced)	ZIPX				Y
2	Adobe Portable Document Format (PDF/E)	PDF	Y	Y	Y	
3	Adobe Portable Document Format (PDF/E-1)	PDF	Y	Y	Y	
4	Adobe Portable Document Format (PDF/UA)	PDF	Y	Y	Y	
5	Adobe Portable Document Format (PDF/X-1a)	PDF	Y	Y	Y	
6	Adobe Portable Document Format (PDF/X-3)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/X-4)	PDF	Y	Y	Y	
	Adobe Portable Document Format	PDF	Y	Y	Y	

(PDF/X-4p)					
Adobe Portable Document Format (PDF/X-5)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/X-5g)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/X-5n)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/X-5pg)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/VT)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/VT-1)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/VT-2)	PDF	Y	Y	Y	
Adobe Portable Document Format (PDF/VT-2s)	PDF	Y	Y	Y	
Minecraft Land Database	LDB				
Minecraft Level Data					

458Mine 9Mani	ecraft Level ifest			
	are Cached ication Icon	APPICON		
	are Cached ication Data	APPINFO		
459 Appl 2 Shor	e Website tcut	WEBLOC		
459 Appl 3 Arch	e Website ive	WEBARCHIVE		
4Wall	iBit Core et Data	DAT		
	eley UNIX box Table of ents			
459Wii 6Pale		TPL		
459 Firel 7 Data		FDB		
Audi	versation	SIL		
9/Ber	her/Babylock nina Home roidery	PEC		
460Real 0	Player Video	IVR		
460 Ziso 1 Com	fs pressed			

Archive			
460AutoCAD R2.5	DWG		
2 Drawing			
460 AutoCAD R2.6	DWG		
3Drawing			
460AutoCAD R9	DWG		
4Drawing			
460AutoCAD R10	DWG		
5Drawing			
460 AutoCAD R11/R12	DWG		
6Drawing			
460 AutoCAD R13	DWG		
7Subtype 10			
Drawing			
460 AutoCAD R13	DWG		
8Subtype 11			
Drawing			
460AutoCAD R13	DWG		
9Subtype 12			
Drawing			
461AutoCAD R14	DWG		
0Subtype 13			
Drawing			
461AutoCAD R14	DWG		
1Subtype 14			
Drawing			
461AutoCAD R2000	DWG		
2Drawing			
461 AutoCAD R2004	DWG		
3 Drawing			

	AutoCAD R2007 Drawing	DWG		
461	Steganos Security Suite Virtual Secure Drive	SLE		
	AES Crypt Archive	AES		
	Better Portable Graphics Image	BPG		
8	Puffer ASCII Armored Encrypted Archive	APUF		
	WhereIsIt Catalog	CTF		
	EnCase Evidence Segment v2.00	Exnn, Ex01		Y
	Genetec Video Archive	G64		
	Forte Agent Newsreader Character Map	COD		
3	1Password 4 Cloud Keychain Encrypted Attachment	ATTACHMENT		
	Windows User State Migration Tool Data	DAT		

462Puffer Encrypted 5Archive	PUF		
462Google WebP 6Image	PUF		
462ShadownProtect 7Backup (Full Image)	SPF		
462MultiBit 8Blockchain	SPVCHAIN		
462IBM DB2 9Conversion	CNV		
463VocalTec Media 0Descriptor	VMD		
463MultiBit Wallet 1Information	INFO		
4631Password 4 Cloud 2Encrypted Data	d Keychain		
463Qimage Filter 3	FLT		
463 Huskygram/Poem 4/Singer Embroidery Design	CSD		
463 Jeppesen Flight 5 Log	LBK		
463BitLocker 6Encrypted Disk Image (Vista)			
463BitLocker 7Encrypted Disk			

	lmage (Windows 7)			
	Mac OS X Program (PowerPC 64bit)			
9	Mac OS X Dynamic Library (PowerPC 64-bit)	DYLIB, KEXT		
	MS Windows MSinfo Data	MOF		
	ASCII85 Encoded File	B85		
	LZ4 Compressed Stream	LZ4		Y
	AppleWorks 5 Document	СWК		
	AppleWorks 6 Document	CWK		
	Ami-Back Hard Drive Backup	BAC		
	MS Windows Upda Compressed	te Binary Delta		
	Free Lossless Image Format Image	FLIF		
	Rowperfect Session Analysis	STG		
464		MLV		

465Web Open Font 0Format Package 2	WOFF2		
465 Palm OS 1 Calendar	DBA		
465 Lepton 2 Compressed JPEG Image	LEP		
465EndNote Library 3	ENL		
465Show Partner 4Graphics Image	GX2		
465 SpeedTouch 5 Router Firmware	BIN		
465 Graphics Kernel 6 System Image	GKS		
465Dore Raster 7Image	DORE, IMG		
465Panda 3D 8Transform Definition	EGG		
465 AlZip EGG 9 Compressed Archive	EGG		
466EGG Video 0	EGG		
466Maya 3D Image 1(64bit; binary)	mb		
466Gerber Vector 2Image	GBR		

466SeqBox Archive	SBX, SEQBOX		
466LyNX Archive 4	LNX		
466 PackDir 5 Compressed Archive	PACKDIR		
466Scifer 6Compressed Archive	SEN, BA		
466 Softlib 7 Compressed Archive	SLB		
466WARC Archive 8	WARC		
466ARC Internet 9Archive	ARC		
467CDX Internet 0Index	CDX		
467 BSDIFF 1 Compressed Archive			
467Generic DIFF 2Archive			
467 International 3 Patching System Archive	IPS		
467UPS Patch 4Archive	UPS		

5	VCDIFF Compressed Archive	VCDIFF				
6	Adobe Portable Document Format v1.1	PDF	Y	Y	Y	
7	Adobe Portable Document Format v1.2	PDF	Y	Y	Y	
8	Adobe Portable Document Format v1.3	PDF	Y	Y	Y	
9	Adobe Portable Document Format v1.4	PDF	Y	Y	Y	
0	Adobe Portable Document Format v1.5	PDF	Y	Y	Y	
	Adobe Portable Document Format v1.6	PDF	Y	Y	Y	
2	Adobe Portable Document Format v1.7	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/X-1:1999)	PDF	Y	Y	Y	
	Adobe Portable Document Format (PDF/X-1:2001)	PDF	Y	Y	Y	

468 Adobe Portable 5 Document Format (PDF/X-2)	PDF	Y	Y	Y	
468 Adobe Portable 6 Document Format (PDF/X-1a:2003)	PDF	Y	Y	Y	
468 Adobe Portable 7 Document Format (PDF/X-3:2003)	PDF	Y	Y	Y	
468Block Hash Loc 8	BHL				
468Mtree Index 9					
469Cache Directory 0Tag	TAG				
469Symbian/EPOC 1release 3, 4, 5 Installer	SIS				
469lomega Backup 2	113				
469Oracle Database 3Backup	ARC				
469Ableton Live 4Metadata	AMS				
469 FruityLoops / FL 5 Studio Project	FLP				
469 Jeskola Buzz 6 Song	BMX, BMW				
469 Tableau Packaged 7 Workbook	ТWBX				

469Propellerhead 8Reason NN-XT Patch	SX2		
469Studio Session 9Song (MacBinary)	SSS		
470Direct Stream 0Digital Music	DSF		
470RF64 Broadcast 1Wave Format Audio	RF64, WAV		
470KSS Music 2	KSS		
470KSSX Music 3	KSS		
470Nintendo 4Entertainment System Sound Extended	NSFE		
470Picasa Movie 5Project	MXF		
470MS Internet 6Explorer v11 Tracking Protection List	TPL		
470 PCAP Next 7 Generation Dump	PCAPNG		
470Amazon Kindle 8Update Package	BIN		
470Universal Voxel 9Translator	ТОХ		

471	LZFSE	LZFSE		
	Compressed			
	Archive			
471	Apache Avro	AVRO		
	Object Container			
	RCFile Columnar	RC		
	Data			
	Emulator	EZ2		
	Emaxsynth			
	Samples			
<u>4</u> 71	Emulator III Synth	F73 ISO		
	Samples	223, 130		
	Lua Bytecode	LUAC		
5		LUAC		
471	Interplay ACM	ACM		
	Music			
471	GameCube / Wii	AST		
7	AST Sound			
471	GameCube / Wii	BRSTM		
8	BRSTM Sound			
471	STOS Memory	MBK, MBS		
9	Bank Sounds /			
	Images			
472	WinAHX Tracker	АНХ		
0	Music			
472	MS Windows			
1	Service Control			
	Manager Log			
	QuickBooks for			
	Windows			

	Component File Search Index			
	MS Windows Localization Dictionary	DUB		
	Mozilla Firefox Safe Browsing Database	SBSTORE		
	PowerShell XML Schema	RLD		
472 6	TurboTax Profile	Profile		
472 7	Vertex Shader	VS		
	MS Windows Input Method	IM		
472 9	XAML Binary	XBF		
	Mozilla Firefox Compressed Portable Data	MOZLZ4, JSONLZ4		
	Mozilla Firefox Browser Manifest	JA		
	MS Windows Service Control Manager Log	EVM		
	VMWare Installer Data	•		

473Micro 4Roam Passw	ing Browser			
473 Quick 5 Windo Index	books for ows Search	CFX		
473MS Pa 6Signat	cked Digital ture	Р7Х		
473 Chron 7 Visite Datab		•		
473MS W <sup>-</sup> 8Packa Deplo Metac	ige yment	PCKGDEP		
473 MS W 9 Packa Deplo Recov Metac	ige yment rery	RECOVERY		
474MS W <sup>.</sup> 0Crede	indows Vault entials	VCRD		
-	e Database d Memory	DB-SHM, SQLITESHM		
	e Database -Ahead Log	SQLITE-WAL		
474Linux 3Link	Symbolic			
	12 Personal nge Format	PFX, P12		

474ARCV Archive 5	0		
474AUS Backup Data 6Archive	•		
474True Box Shot 7Cover	DRC		
474Apple iOS Photo 8Database Cache	•		
474MS OneNote Table 9Of Contents	ONETOC		
475MS Windows NT 0Binary Printer Description	BUD		
475ProCite 1Bibliography v4	PDT		
475All SoundTracker 2Module Music	AST		
475AProSys Module 3Music	APS		
475Beepola Module 4Song	BBSONG		
475MPEG-2 Transport 5Stream	M2TS, MTS		
475Stereo Double 6Chaos Music Composer Song	CMS		
475 Future Composer 7 Module Music	BSI		
475Liquid Digitized 8Sample Sound	LDS		

475	OctaMED v2.10	MED4		
	Module Music			
476	Onyx Module	OMF		
0	Music			
476	SCC Blaffer NT	SBM		
1	Music			
476	SCC Blaffer NT	SBK		
2	Instrument			
	SoundFX Module	SFX, SFX2		
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	Soundtracker	ST26		
	v2.6 Module Song			
	Ice Tracker			
	Module Song			
476	HMI Music	НМІ		
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	Adlib Tracker II	A2I		
	Instrument			
	Adlib Tracker II	A2B		
8	Instrument Bank			
476	Adlib Tracker II	A2M		
9	Module Song			
477	Adlib Tracker II	A2T		
0	Tiny Module Song			
477	Adlib Tracker II	A2P		
1	Pattern			
477	Adobe Portable	ACRODATA		
2	Document			
	Security Data			

477Quickbooks 3Update Log	LOG, OLD		
477FI Data Profiler 4Statistical Analysis	FIS		
477 QuickBooks for 5 Windows Update Descripti	DAT		
477MS Visual Studio 6Extension Description	тхт		
477Boom Tracker 7v4.0 Module Song	CFF		
477DOSBox Raw OPL 8(DRO) Song	DRO		
477Steinberg VST2 9Music Plugin Presets	FXP		
478Musink Song 0	MUSINK		
478Lytro Image 1	LFP		
478Speech Synthesis 2Markup Language	SSML		
478VoiceDescription 3			
478Audfprint 4Fingerprint	AFPT		
478Audfprint 5Fingerprint	AFPK		

	(Columbia Peaks)			
478 6	SoundHelix Song	XML		
	Olympus Raw Image	ORF		
	Panasonic Raw Image	RAW, RW2, RWL		
478 9	Rawzor Image	RWZ		
	DNG Camera Image Profile	DCP		
	PCO B16 Digital Camera Image	B16		
2	FLIR Open Floating Point Format Image	FPF		
	ChiefLZ LZA Compressed Data v1	LZA		
	ChiefLZ LZA Compressed Data v2	LZA		
	ChiefLZ LZZ Compressed Data v2	LZZ		
6	Hammer Compressed Game Data	HMR		

HAP Archive v2.10	НАР		
Becky Email Message	BMF		
Long Range ZIP Archive	LRZ		
Random Access Compression Archive	RAC		
Simple Highspeed Archiver Archive	SHARC		
Terse Compressed Archive			
TTW Compressed Archive	CR		
Tzip Compressed Archive	ΤΖ		
Yaz0 Compressed Archive	SZS		
ZSQ Compressed Archive	ZZZ, ?Z?		
SLIM Compressed Archive			
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481	Disk Doubler	DD, SEA		
0	Archive			
481 1	Info File Database	FLR		
481 2	RFFlow Diagram	FLO		
	Timeline Maker Diagram	TLM, TLMP, TLM3, TLM4, TLMZ		
	Disk Imploder Image	DMP, DEX		
	File Imploder Archive	IMP		
481 6	A2R Disk Image	A2R		
481 7	WOZ Disk Image	WOZ		
	Analog Box Modular Song	ABOX2		
9	GarageBand Instrument Presets	PST		
482 0	WebHelp Page	HTM		
	Atari STT Disk Image	STT		
	Pasti Atari Floppy Disk Image	STX		
	G64 Floppy Disk Image	G64		

482DSK-PRO 4Compress		DI		
Image 48286F Disk   5	Image 8	6F		
48286F Comp 6Disk Imag		6F		
482CopyQM F 7Disk Imag				
482Floppy Di 8Compress Image		DF		
482SolidWorl 9eDrawing Assembly Comp	s	ASM		
483Quick Rel 0Sector Tr Disk Imag	ansfer	)RST		
483EZ-DiskCo 1Disk Imag	opy Pro R	RIM		
483XPACK Di 2	sk ImageX	DI		
483DMK Disk 3	Image D	OMK, DSK		
483Mirage Mi 4Snapshot Image		NX, SNAPSHOT		
483Oric Disk 5(Old)	Image D	)SK		

483Oric	: Disk Image	DSK		
6(Nev	v MFM)			
483LDB	S Disk Image	LDBS		
7				
483LDB	S Disk Image	LDBST		
8(UT	F-8)			
483 IPF	Disk Image	IPF		
9				
484Kryo	oFlux Disk	RAW		
0Imag				
484High	n Efficiency	HEIC		
1 Imag	ge Container			
Imag	ge			
484AbiV	Vord	AWT		
2Tem	plate			
484Win	Undelete	WUI		
3Inde	X			
484SciT	ex	CT, SCT, SCITEX		
4Con	tinuousTone			
Imag	ge			
484Soni	c Global	GI		
5Imag	ge			
484Rox	Data Disc	ROX		
6Imag	ge Layout			
484 Rox	Audio Disc	ROX		
7Imag	ge Layout			
484 Atar	i CAS	CAS		
8Cass	sette Tape			
Imag	ge			

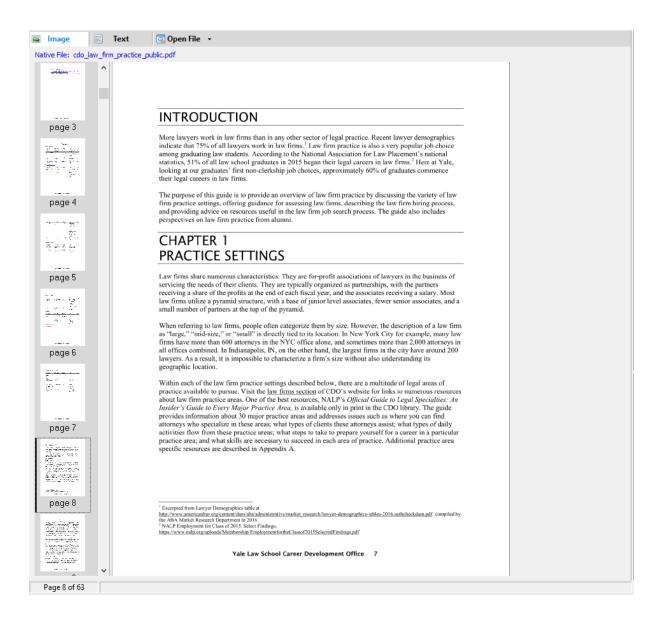
484	Perfect ZX Tape	PZX		
	Image			
485	BeagleWorks			
0	Document			
485	BeagleWorks			
1	Spreadsheet			
	BeagleWorks			
2	Database			
485	BeagleWorks			
	Drawing			
	BeagleWorks			
	Painting			
	COSMI Desktop	PUB, DTP, BRO,		
5	Publishing	BCD, CRD		
	Document			
485	Yozo Office	EIO		
6	Document			
	Farallon Replica	RPL		
	Document			
	Uniform Office	UOP		
8	Format Document			
485	Affinity Publisher	AFTEMPLATE		
9	Document			
486	Calamus	CDK		
0	Document			
486	Canvas 3.5	CVS		
1	Document			
486	Dynamic Publisher	РСТ		
2	Screen Picture			

486Dynamic Publisher 3Font	FNT		
486Adobe InDesign 4Book	INDB		

# Image Display

# Working with Images

You can use LAW to view the images associated with a page, open images in an external viewer, or view image properties. You can view common formats of image files, such as TIFF files, by using either the Image display that is built into CloudNine<sup>™</sup> LAW or by using an external viewer.



#### To view an image

• From the main window, select an item and then click the **Image** tab.

If the item has an associated image file, the image will appear in the **Image** tab. Otherwise a graphic that says **No Image Available** will appear.

To view certain types of image files in the Image panel, for example with DWG drawing files, you can use the Batch Processing utility to convert the image file to TIFF and then review the TIFF in the Image panel. For more information about converting items to TIFF using the Batch Process utility see: <u>E-Printing, TIFF, and PDF Conversion</u>.

If the item is a document that consists of multiple images, you can navigate between images by selecting thumbnails that appear in the leftmost column.

#### To switch page and thumbnail modes

On the View menu, select: One Page, Thumbnails, or Page and Thumbnails.

- **One Page** shows just the currently selected page.
- **Thumbnails** shows just the thumbnails for the page images, and not the page preview.
- **Page and Thumbnails** This is the default mode. It shows both the preview of the full page and thumbnails for the page images.

## To navigate and select pages

LAW provides several ways to navigate between and to select pages of multi-page documents:

Action	Steps
Open the Goto Page dialog	In the main window double-click the page count area of the status bar in the lower-left corner of the main window. The Goto Page dialog opens. Use this dialog to go to the First page, Last page, or a specific page.
	Goto Page ×
	O First page
	O Last page
	Page 2
	<u>OK</u>
Move between pages	• On the Page menu, select First Page, Previous Page, Next Page, or Last Page.
	• On the main toolbar, click one of the navigation buttons.
	<ul> <li>Right click in the thumbnails area and then select a navigation control.</li> </ul>
Select or	<ul> <li>Press and hold the CTRL key and click a thumbnail.</li> </ul>
unselect a page	<ul> <li>Click to the right of the thumbnail and then press the spacebar.</li> </ul>
F - 3 -	<ul> <li>Click the full-page preview and then press the spacebar.</li> </ul>
	When a page is selected, the background of selected page is black.

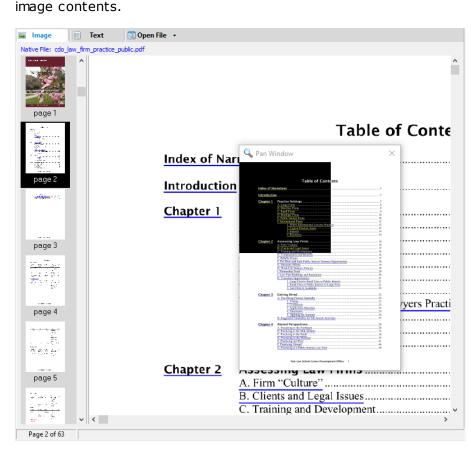
Action	Steps
Select a range of pages	• Press and hold the CTRL key and click a thumbnail at one end of the range.
	• Press and hold the SHIFT key and click the thumbnail at the other end of the range.
Select all pages	Click in the thumbnails region and then press CTRL+A.
Unselect all pages	Press ESC.

## To manipulate page display

When you use the Image Viewer, you have the following options for manipulating the way the page displays. These ways are described as follows:

Action	Steps
Zoom in.	• In the main window, on the <b>View</b> menu, click <b>Zoom In</b> .
Zoom out.	• In the main window, on the <b>View</b> menu, click <b>Zoom Out.</b>
Zoom to selection.	<ul> <li>Press and hold down the left mouse button and drag to select the area to zoom; release the mouse.</li> </ul>
	LAW zooms to the area defined by the rectangle. Double-click to return to the <b>Best Fit</b> state.
Best entire page in Viewer.	• In the main window, on the <b>View</b> menu, click <b>Best Fit</b> .
Fit page to viewer width.	• In the main window, on the <b>View</b> menu, click <b>Fit to Width</b> .
Lock or unlock the zoom	<ul> <li>Press CTRL+Z; or in the main window, on the View menu, click</li> <li>Zoom Lock.</li> </ul>
across pages.	A lock icon displays on the <b>Image</b> button.
	• To zoom in, press CTRL+PAGE UP; to zoom out. press CTRL+PAGE DOWN.
Unlock the zoom.	<ul> <li>In the main window, on the View menu, click Zoom Lock to remove the check mark next to Zoom Lock.</li> </ul>
Move the view across a zoomed image.	<ul> <li>Click and drag the scrollbars.</li> <li>Or</li> </ul>

Action	Steps		
	• Press and hold the CTRL key and press UP ARROW, DOWN ARROW. LEFT ARROW, or RIGHT ARROW keys.		
Pan Window	. In the main window, select an image.		
	2. On the View menu, click Pan Window.		
	<ol><li>A small pan window with a black box showing the zoomed selected image opens. You can shrink or enlarge the window to view the</li></ol>		



Scale to gray for all pages (only for viewing; cannot be saved.)	<ul> <li>This feature can improve the readability of some text. It is for viewing only and does not alter the image in any way.</li> <li>In the main window, select an image.</li> <li>On the View menu, click Scale to Gray.</li> </ul>
Invert page color on all	1. In the main window, select an image.
pages (only for viewing;	2. On the <b>View</b> menu, click <b>Invert</b> .

Action	Steps
cannot be saved.)	This feature is useful when viewing documents that have shaded or colored backgrounds, making them difficult to interpret. The Invert feature reverses the colors and can help to clarify the image. This feature does not alter the image in any way; it is for viewing purposes only.
Rotate pages.	1. In the main window, on the Page menu, click Rotate Left, Rotate Right, or Rotate 180.
	If no pages are selected, only the current page is rotated. If one or more pages are selected, all selected pages are rotated the specified direction.
	The rotation applied to an image is not saved automatically. An unsaved rotation is evident if the main image window shows the current page as rotated but the thumbnail view shows the original orientation.
	<ol> <li>Save the rotation for the image, if necessary. In the main window on the File menu, click Save.</li> </ol>
	The current orientation for all pages is saved; the thumbnails and image update with the new rotation.
	Rotating an image that has been endorsed by LAW may result in undesired results if the endorsement is later modified or removed. See <u>Header/Footer Options</u> for further information on endorsing.

### **To open an image in an external viewer**

- 1. From the main window, select an item.
- 2. Click the **Tools** menu.

If the item has an image file then **Launch Viewer** will be enabled.

## 3. Click Launch Viewer.

This feature opens the image in whichever image viewer is registered in the operating system as the default for the specified image type.

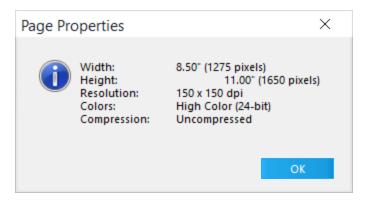
If the image is modified in the external viewing application, you will need to switch documents in LAW before you save changes; otherwise, a locking violation will occur.

## **Viewing Image File Properties**

You can view the properties for both the current page and the entire image when working with records with associated image files.

#### To view the properties for the current page

- 1. Select a page.
- 2. On the **Page** menu, click **Properties**. The **Page Properties** dialog box appears. It provides the height and width of the image in both inches and pixels, the resolution, the color format, and the compression type for the current page.



#### To view image file properties

- 1. Select an image for which you want to view properties.
- 2. In the main window, on the Edit menu, click Properties.

A file properties dialog provides file attributes, file size, and the actual file name for the image.

🛃 61.ntv.pdf P	roperties X
General Secu	rity Details Previous Versions
PDF	61.ntv.pdf
Type of file:	Adobe Acrobat Document (.pdf)
Opens with:	Adobe Acrobat Reader Change
Location:	C:\LAW Cases\OmegaApr2020\\$EDD\\$NativeFiles
Size:	1.62 MB (1,706,080 bytes)
Size on disk:	1.62 MB (1,708,032 bytes)
Created:	Wednesday, April 15, 2020, 2:53:57 PM
Modified:	Tuesday, February 12, 2019, 1:56:14 PM
Accessed:	Wednesday, April 15, 2020, 2:53:57 PM
Attributes:	Read-only Hidden Advanced
	OK Cancel Apply

Note the following about image file properties:

- For scanned or imported images (non-ED), CloudNine<sup>™</sup> LAW does not display the actual file names for the images in the document list.
- File names consist of the **ID** field in the database, zero-padded to 8 characters, followed by the file extension.
- For images created via the TIFF Conversion batch process, the actual file name will be displayed in the page-level **PageFilename** field.

## To view native file properties

The steps to view native file properties depend on whether the native file has an image file associated with it.

### To view file properties for native files with no image files

1. Select a file in the main window.

2. On the Edit menu, click Properties.

The native file properties appear. If an image does exist in addition to a native file, the image properties will be shown by default.

#### To view file properties for native files with image files

- 1. Select a file in the main window.
- 2. Right-click the native file hyperlink, which is located above the image display, and then click **Properties**.

# Manipulating Documents

After documents are brought into a case, you have many options for cleaning up images, and for adding, deleting, and reorganizing documents and pages.

Very Turbo Import enabled cases have Moving, Splitting, and Replacing documents disabled. Use an Electronic Discovery enabled case if you anticipate needing these abilities.

## Page-level Cleanup

Image enhancements are page cleanup operations applied to individual pages. Examples include deskew and rotate pages. Enhancements may be performed at the document-level or page-level. Page-level options are found in the Page menu, or by right-clicking a page in the thumbnail display.

#### To deskew a page

- 1. On the View menu click Thumbnails, or you can click Page and Thumbnails.
- 2. Select an image.
- 3. Click Deskew or press F4.

If multiple pages are selected, then all selected pages will be deskewed.

If no pages are selected, only the current page will be deskewed. This is ideal when inspecting documents on the page level and only a few unacceptably skewed pages exist.

See the <u>Batch Processing</u> section to learn about deskewing larger sets of documents.

## To enhance images

- 1. In the main window, in the image viewing area, select an image.
- 2. On the **Page** menu, click **Enhance Image**.

The **Select Image Filters** dialog box appears.

Select Image Filters	
Available Filters           Black-Border Removal           Deskew           Hole Removal           Line Removal           Noise Removal	OK Cancel

3. Use the information in the following table to select from among available filters, and then click  ${\bf OK}.$ 

Use this filter	To do this
Black-Border	Remove black edges from pages.
Removal	This filter will cleanup only black edges that are even. If the black edge is uneven or slanted down the page, it will not be filtered. If receiving uneven borders, it is due to the scanner model being used and the scan area will have to be adjusted in order to remove them. The scan area can be adjusted from the <u>Scanner Settings</u> dialog.
	Black borders left on pages can prevent LAW from recognizing blank pages, so this filter should be selected if using the 'Drop Blank Pages' scan option. The black-border removal filter can also be applied to multiple documents during Batch Processing.
Deskew	Straighten images that show a slant from their correct orientation.
	Skewing occurs if the original document was unevenly pulled when it was fed into the scanner. Deskewing an image makes the image contents more legible and can drastically improve <u>OCR</u> results. As such, it is a crucial step in the quality control process.
Hole Removal	Removes afterimages of standard size holes (1/4" - 5/16") left from scanning pages that were hole punched. Hole removal can be done for pages of RAW Image and scanned documents, and pages of documents imported in ED Loader and converted to TIFF before hole removal.

Use this filter	To do this
	The letters o and e and zeros, are ignored by the hole removal process. If needed, the image borders can be configured for removing holes on images from the Configure Scan Filters dialog box (Scan > Scan Options > Configure Filters).
Line Removal	Remove black lines from pages.
	Lines must be black, straight, and even.
Noise Remova	I Reduce the amount of random dots and specks that appear on the scanned image.

OCR results may improve if Noise Removal is performed on a document before converting it to text.

#### To rotate images

LAW allows users to rotate pages in the event that one or more pages are improperly oriented.

To perform this action	Do this
Automatically rotate pages while scanning.	Pages may be rotated automatically while scanning using the 'Output Rotation' setting.
	For more information on rotating pages at scan time, see <u>Scan Options</u> .
Rotate one or more pages during the quality control process.	<ol> <li>From the current page, or after selecting multiple pages, click <b>Page</b>.</li> <li>If no pages are selected, only the current page will be rotated.</li> </ol>
Pages may also be rotated during the quality control process if they were not corrected at scan time or were acquired from another source.	<ul> <li>If one or more pages are selected, all selected pages will be rotated.</li> <li>Click one of the following</li> <li>Rotate Left (CTRL+L)</li> <li>Rotate Right (CTRL+R)</li> <li>Rotate 180</li> <li>On the File menu, click Save.</li> <li>Page and thumbnail orientation changes to new setting.</li> </ul>

▲ Care should be taken when rotating an image that has been endorsed in CloudNine<sup>™</sup> LAW. This operation may create problems if the endorsement is later modified or removed. See <u>Header/Footer Options</u> for more information on endorsing.

## **Moving Documents and Pages**

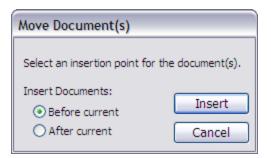
You can move pages, documents, and folders. These options are especially useful if documents have been scanned into the wrong folder or if you want to re-organize documents.

## To move documents

- 1. Select one or more documents.
- 2. Do one of the following:
  - On the Edit menu click Move Document(s).

Or

- Right-click the document list, point to **Edit** and then click **Move Document(s)**.
- 3. The **Move Document(s)** dialog box appears.



- 4. Browse to a document to select it as the current document.
- 5. Do one of the following:
  - Select **Before Current** to insert the document before the currently selected document.

Or

- Select After Current to insert documents after the currently selected document.
- 6. Click Insert.

☑ Documents can be moved within the same folder; however, the insertion point cannot be one of the selected documents.

#### To move folders

• On the **Folder** menu, click **Move**.

See the <u>Establishing Folder Structures</u> for more information.

#### To move pages

Consider the following information before you move pages:

- Pages can be moved within a single document by selecting a document and viewing the thumbnails display on the main interface.
- Moving pages in the thumbnails display is not currently supported for any image records stored as single-page, such as images scanned while using the Serialized Storage Schema option or images converted to serialized TIFF images via single document or batch TIFF conversion.
- Moving pages does not move page information. For example, if you move a page, its page ID, header, footer, and size, will not be moved.
- If you move a page, pages may need to be renumbered after the move.
- Because header/footer size info will not be moved. Pages should only be moved within a document in which all or no pages have been endorsed with the same settings; otherwise, unexpected results may occur if re-endorsed.

#### To move pages using Thumbnails:

- 1. Page thumbnails must be visible to move pages. If thumbnails are not currently visible, on the **View** menu, click either **Thumbnails** or click **Page and Thumbnails**.
- 2. From the thumbnail display, select the pages to move.
- 3. Click and hold on any of the highlighted pages.
- 4. After the icon changes and drag to the selected insertion point and then release the mouse.

#### To move pages using the Move Page(s) dialog box:

- 1. Page thumbnails must be visible to move pages. If thumbnails are not currently visible, on the **View** menu, click either **Thumbnails** or click **Page and Thumbnails**.
- 2. From the thumbnail display, select the pages to move.

- 3. Click and hold on any of the highlighted pages.
- 4. On the Edit menu, click Move Page(s).

Clicking **Move Page(s)** opens the **Move Page(s)** dialog box. You can also open the **Move Page(s)** dialog box by right-clicking the selected page(s) and then clicking **Move Page(s)**.

Move Page(s)	$\mathbf{X}$
Page(s) to move : 2-3	
Select an insertion point fo	r the nage(s)
Insert Pages:	Insert
O Before current	
<ul> <li>After current</li> </ul>	Cancel

- 5. Click where you want to insert the highlighted page(s).
- 6. Do one of the following:

• Select **Before current** to insert the page(s) before the selected page. Or

- Select **After current** to insert the page(s) after the selected page.
- 7. Click the **Insert** button.

## **Deleting Documents, Pages and Folders**

You can delete pages, documents, and folder structures from a case directly from the main form. From a grid display you can delete one or more documents, an entire range of pages in a document, or specific pages from a document.

▲ If you have deduplication enabled, then it is recommended to enable "Refresh duplicate status after deleting records" (**Tools>Options>Preferences**) prior to deleting documents or folders.

#### To delete documents

- 1. Select one or more documents from the document list.
- 2. Do one of the following:
  - Press the DELETE key.
  - Or

• On the Edit menu, click Delete and then click Document(s).

The **Delete Document(s)** dialog box appears.

Delete D	Document(s)	$\times$
	The selected documents and all of it's descendants will be deleted. Would you like to proceed?	2
	<u>Y</u> es <u>N</u> o	

- 3. Click Yes.
- Records that were imported via Turbo Import will delete all records in the family. For example, selecting the second of two attachments and clicking **Delete** will delete all three records ( the parent and both attachments).

#### **To delete pages**

- 1. Select one or more pages from the thumbnails display.
- 2. On the **Edit** menu, click **Delete** and then click **Page(s)**.

The **Delete Page(s)** dialog box appears.

Delete Page(s)	
Select Pages	
O Current Page	
🔘 Page Range	
То	OK
Selected Pages	Cancel

- 3. Select Current Page or enter a range of pages, and then click OK.
- Please note the following when deleting pages:
  - Deleting pages in PDFs is not supported in CloudNine<sup>™</sup> LAW.
  - If an image has associated OCR text, the deleted pages will be removed from the OCR as well (text-based OCR only) and the remaining OCR pages will be renumbered if page identifiers are found (i.e., <<< Page 1 >>>).

To delete folder structures

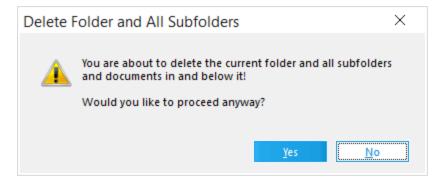
You can delete a folder and all its contents, including subfolders and their contents.

- 1. From the main window, do one of the following:
  - Right-click a folder and then click **Delete**.

Or

Select a folder and then click the delete button: <sup>III</sup>.

The **Delete Folders and All Subfolders** dialog box appears.



2. Click **Yes** to delete the folder and all its contents or click **No** to cancel.

#### To delete records from a grid display

- On either a standalone or embedded grid display, select records to delete and then press the DELETE key.
- ▲ Use caution when using this feature as anywhere from one record to all records in the case may be selected at once and deleted from the grids.

## **Splitting Documents**

You can split a document into multiple documents. Splitting may be configured to split every page of a document into its own document. Splitting may also be based on page selection, barcode pages, or by the presence of blank pages.

## To split a document

1. Select a document.

2. On the **Edit** menu, click **Split Document**. You may receive a warning that you could lose metadata and file links if the document you are splitting is electronic.

Split Document	
Split Selection Criteria Barcode break sheets Blank pages Every page Selected pages Drop selected pages	Configure
Metadata Options Metadata retention: Copy to all records Auto number remaining DocID's Starting suffix: .002	OK Cancel

3. Apply options to split documents according to the following table:



Barcod Processes documents in compliance with any barcode break sheets that aree Break detected, and then removes the barcode break sheets from the page output.Sheets • Splits the document if a document break is detected.

- Creates a new folder if a folder break is detected.
- Separates attachments if attachment sheets are detected. Deletes from the image after being processed.
- Click the **Configure** button for more supported barcode settings and types.

You can specify break sheet settings from the <u>Imaging tab</u> of the Options form. If no pages with barcode breaks are found, the operation will be canceled.

This setting may be useful if the **Detect Barcode Breaks** scan option was disabled while scanning.

See the <u>Using Barcodes</u> topic for additional barcode information.

**Blank** Removes blank pages from the document. Detection of blank pages may be configured as follows:

Optio n	Description
	<ul> <li>Click the <b>Configure</b> button for blank page filter options. These options are listed as follows:</li> <li><b>Pristine White.</b> Removes pages only if they completely blank and contain no discernable visual noise. This option is best used for electronic documents that were converted directly to TIFF or PDF. Scanned images may require a slightly less sensitive filter.</li> </ul>
	<b>Dirty White.</b> Removes pages that are blank even if a small amount of visual noise is detected. Visual noise includes such things as speckles, creases, and folds. This setting is recommended for scans of good or excellent quality scanned documents.
	<b>Very Dirty White.</b> Removes pages that are blank even if a large amount of visual noise is detected. This setting is recommended for scans of poor quality documents.
	<b>One Line Acceptable.</b> Removes pages that contain a single line of text, for example, "This page intentionally left blank".

Every Splits every page of the document into its own single-page document. Page

Select ed	Designates the currently selected pages as the starting page of new documents.
Pages	This setting is only available if one or more pages are selected. Because the first page (of the current document, prior to splitting) is automatically included as the start of the first sub-document, selection of this page is not necessary.

Drop Drops all selected pages. This will also be the case if barcode break sheets or **select** blank pages as the separator pages are manually selected. ed

## pages

s

Metad Use these options for records imported with ED Loader and then converted to ata TIFF using CloudNine<sup>™</sup> LAW. Option

Discard all metadata. Removes all ED import metadata associated with the original record, with the exception of the DocID field. This includes important values used to indicate duplicate record status, metadata pulled from the (for ED native file, and ED Loader session information. Records

> All records created after the split (including the first record) will lose the value used to indicate the file is an ED record. You will no longer be able to perform ED-related operations with these records such as converting to TIFF and exporting native files.

Copy to all records. Records created by the split inherit the metadata of the original record.

Optio n	Description
	The original native file will be associated with all new records. The native file is not copied; all new records will point to the same file. For new records beyond the first record, this native file link is created by placing the path to the native file into the "NativeFile" field in the LAW case. Because of this behavior, if the newly split records are included in a TIFF conversion process, the same native file will be converted for each of the records involved in the split.
	<b>Copy to first record only</b> - Only the first record created by the split inherits the metadata of the original record. Other records created as a result of the split do not inherit ED Loader metadata, with the exception of DocID. Other user-defined field data is retained for all records.
Autor	For any record created as a result of the split operation, this option will

**Auton** For any record created as a result of the split operation, this option will **umber** automatically number the DocID values with a suffix.

To use this feature, enable the "Auto number remaining DocID's" setting in the Split Document dialog and enter the value in the "Starting Suffix" field. The default is ".002". The value in the "Starting Suffix" field value will be appended to every record created as a result of the split with the exception of the first, or original, record. The suffix will increment by one for each record.

For non-ED records, the index information from the original document is applied to all new documents. This may cause duplicate values if unique fields are defined, so any duplicate values will automatically be cleared. See below for information on metadata handling for ED records.

## **Merging Documents**

You can can merge two or more documents together. Merging documents can make sense, for example, if each page of a single document is scanned as a series of separate documents. Also, if records that were converted to TIFF are imported, they may arrive as one document per page, in which case you would want to merged page ranges into whole documents.

#### Preparing to merge documents

Consider the following facts before merging documents:

• Folder location of target documents. The documents to be merged must be located in the same folder. If documents in different folders need to be merged, the Move Documents function may be used to move them into the same folder.

- ▲ Use caution when merging ED records. Important metadata and file links may be lost depending how the documents are merged.
- **Merge sequence.** The documents will be merged in the same order they appear in the document list. To merge them in a different order, move the documents prior to the merge operation. All PageID information for the pages will be retained when merging documents; however, the index information for the first document will be used as index information for the new document. Be sure to verify this information after the merge.
- **Performance considerations.** Because LAW stores multi-page documents in multipage image format, the image file has to be physically rebuilt, with all pages from the 2nd to the Nth documents being appended to the first document selected. This can take some time depending on the number of pages being merged. LAW can typically merge 100 pages in less than 5 seconds, but as the number of pages increases, the average time per page increases.

To cancel this process press the ESC key.

#### **To merge documents**

- 1. Select two or more documents.
- 2. On the Edit menu click Merge Documents.

**Merge Documents** is not enabled if a single document is selected.

If at any time you need to cancel a merge operation, press the ESC key.

## **Inserting Documents and Pages**

You can insert scanned documents, scanned pages, and existing images in the desired locations within the current folder.

#### Inserting a document versus inserting a page

The main insertion modes are listed along with descriptions for the best use of each:

• **Inserting a document.** Use this mode when you want to add a document after the first round of scanning is done.

Insert multiple documents if the **Detect Barcode Breaks** setting is enabled and the pages are separated by barcode break sheets. This feature is important because, unless documents are specified by a query, all processing functions, such as batch processing and exports, are executed in scan order.

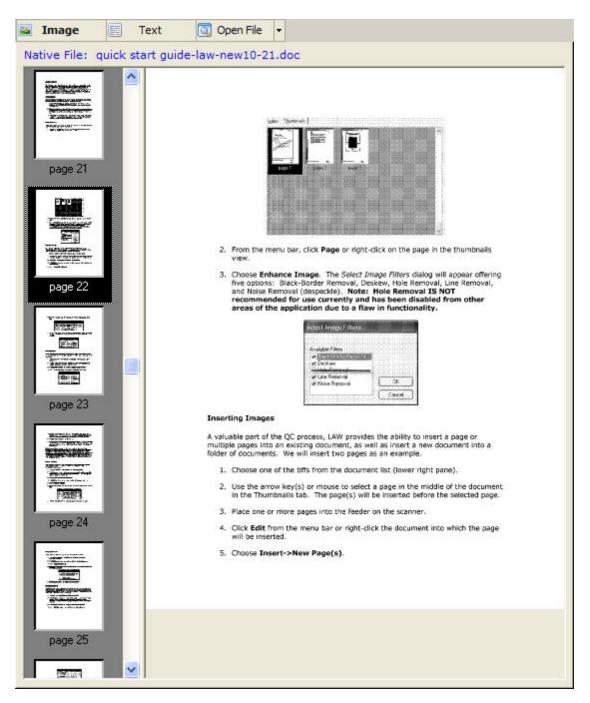
• **Inserting a page.** Inserting a page is often used when a page, such as the back of a page, was skipped during the initial scan process.

## **To insert documents within the current folder**

- 1. Select a document.
- 2. On the **Edit** menu click **Insert** and then click **Scanned Document(s)**. The document is inserted above the currently selected document.

#### **<u>To insert new pages</u>**

- 1. On the **View** menu click **Thumbnails** or **Page and Thumbnails**.
- 2. Select the thumbnails display on the main form.



CloudNine<sup>™</sup> LAW will always insert a page or document prior to the one highlighted. In the screen image above, a new page would be inserted between pages 21 and 22

- 2. Click a page that the inserted page will precede and then press the SPACEBAR.
- 3. On the Edit menu, click Insert, and then click New Page(s).

**<u>To insert existing pages</u>** 

- 1. On the Edit menu, click Insert and then click Existing Page(s),
- 2. Browse to the image file to be inserted and then click **Open**. The image is inserted as a page in the document above the currently selected page.

# **Replacing Documents and Pages**

The Replace feature inserts a page or document in place of an existing page or document. You use this feature when you need to rescan one or more pages due to quality issues with the initial scan.

The detection of barcode breaks is temporarily disabled when replacing pages, replacing documents, or inserting pages.

#### To replace a document using a scanner

- 1. Select the document to be replaced in the document list.
- 2. Insert the replacement document into the scanner.
- 3. On the Edit menu click Replace and then click Document.
- 4. Click **OK**.

The new or existing document replaces the selected document.

### To replace a document with an existing document

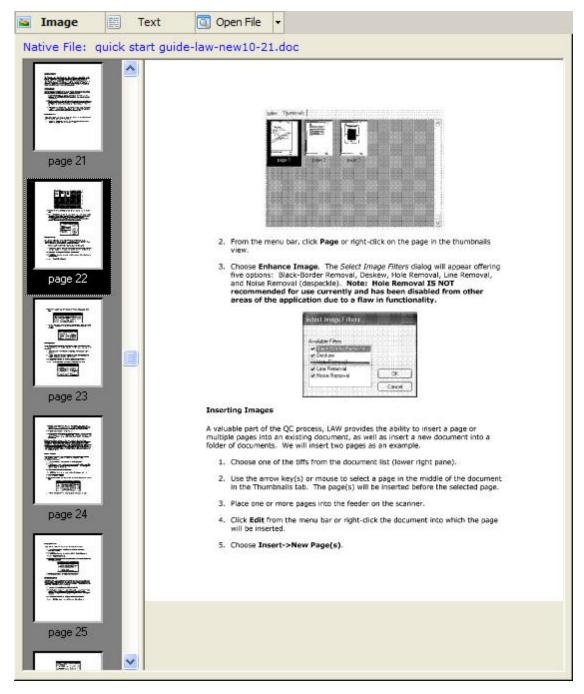
- 1. Select the document to be replaced in the document list.
- 2. On the Edit menu, click Replace and then click Image from File(s).
- 3. Browse to the desired image file and click **Open**.

The new or existing document replaces the selected document.

# To replace a page

Insert the replacement page into the scanner.

1. On the View menu click Thumbnails or click Page and Thumbnails.



2. Select the thumbnails display on the main form.

- 3. Select one or more pages to be replaced and then press the SPACEBAR key.
- 4. On the Edit menu, click Replace and then click Page(s).
- 5. Click OK

The selected page is replaced with the newly scanned page.

# Working with Attachments

You have several options for working with document attachments, including:

- Adding attachments to a particular document.
- Removing attachments from documents.
- Performing quality control on attachments to verify that all attachments identified actually exist, and that all attachments have a corresponding parent document.

🚽 OmegaApr2020	ItemNo ImgExt	Pages Page Range	DocID	DocExt
🛨 🕨 CustodianA	5 0001	0	Omega00005207	MSG
🗄 🕨 CustodianB 🔋 Parent	5 0002	0	Omega00005230	MSG
E CustodianC     CustodianD     Attachment	5 0003	0	Omega00005231	MSG
F CustodianE	9 0004	0	Omega00011536	MSG
🖻 🚽 CustodianZ	0005	0	Omega00011537	DOC
🖃 🚽 Z	5 0006	0	Omega00017852	MSG
🖃 🔄 andrew_lewis_000	5 0007	0	Omega00019739	MSG
🕀 💽 lewis-a	5000 😼	0	Omega00019740	MSG
🖃 🚽 jondoe	5 0009	0	Omega00019741	MSG
John Doe Correspondence	😼 0010	0	Omega00019742	DOC
Parent	😼 0011	0	Omega00019743	XLS
, area	0012	0	Omega00019744	MSG
Attachment	<b>a</b> 0013	0	Omega00019745	PDF
	5 0014	0	Omega00019746	MSG

### To add attachments

- 1. In the document list, select documents to be attached.
- 2. Do one of the following:
  - Press SHIFT+INSERT.

Or

• On the Edit menu click Attachments and then click Attach to Previous.

All selected documents will be attached to the previous document. The documents to be attached must be consecutive and on the same level if attaching multiple documents.

This means that all selected documents must be currently unattached and cannot have attachments of their own. Because the documents are always attached to the

previous document, if the parent and documents to be attached are not consecutive, the documents must be rearranged so the documents to be attached are positioned immediately after the designated parent.

### **<u>To remove attachments</u>**

### To remove one attachment

- 1. Select an attachment.
- 2. On the **Edit** menu, click **Attachments**, and then click **Detach Document**.

Although multiple documents may be selected, only the current document will be detached. When removing individual attachments from a document with multiple attachments, if an intermediate attachment is removed, it will be shifted down in the document list to the position immediately after the last attachment for the current parent. This is necessary to ensure parent/children integrity.

# To remove multiple attachments

- 1. Select any one of multiple attachments to a document.
- 2. Do one of the following:
  - Press SHIFT+BACKSPACE.

Or

• On the Edit menu, click Attachments, and then click Detach All.

### To validate attachments

This function performs checks on the database to ensure that any document marked as a parent has at least one attachment, and any document marked as an attachment has a parent document. LAW automatically corrects any errors found and writes to a log file for later verification. The validate function should be performed on large databases containing many parent/attachment groupings.

# How attachments are identified in the database:

The following fields identify attachment information in the LAW 5.0 database:

**AttachPID**: Identifies the parent ID of the attachment. The ID referenced is the unique ID assigned by LAW to each record scanned or imported into the LAW database.

**AttachLVL**: References the level of attachment. A zero (0) indicates either a parent record or no attachment and a one (1) indicates a child.

**BegAttach**: References the beginning number of the attachment. This is the first number assigned to the parent document of the attachment group.

**EndAttach**: References the ending number of the attachment group. This is the last number assigned to the document page within the attachment group.

**AttRange**: Provides the range from the start of the parent to the last page of the final attachment.

**Attachmt**: Populates the parent level only. This is the list of attachments found within the parent document.

# To validate attachments

• On the Edit menu, click Attachments, and then click Validate.

# **Annotating Documents and Pages**

You can add annotations to TIFF images. After you create an annotation object, you can then customize its properties. You can later edit your annotations or permanently merge them to the file.

▲ There is a limit for merging annotations to images. The limit is 9931 pixels by 14045 pixels. If using paper size A0 then you can use up to 300 DPI(Dots Per Inch). If using A4 size then up to 1200 DPI.

Overview of annotation tools



The following tools are available for annotating TIFF images:

- Select Move or resize annotation objects.
- **Redact** Add a solid rectangle to hide page content.
- Highlight Add a transparent rectangle.
- Text -- Add a text box.
- **Popup** Add a captioned popup text box.
- Freehand line Draw a freehand line.
- Arrow Draw an arrow or a line.
- **Rectangle** Draw a rectangle or rounded rectangle.
- Ellipse Add an ellipse to the image.
- Rubber stamp Paste an external picture file onto the current TIFF.

• Line tool - Draw a polygon.

# To create and save annotations

Annotations can only be added, deleted, or modified if the annotation toolbar is displayed. Displaying the annotation toolbar changes the mouse behavior from image to annotation mode.

# To create annotations

- 1. Select a page.
- 2. Click the **Image** tab.
  - On the Tools menu, click Annotations, and then click Toggle Toolbar.

Or

• Press CTRL+T.

The toolbar activates.

- 3. Click one of the tools.
- 4. Apply the tool to the image.

# To save annotations

- Click outside the annotations area and then follow prompts to save the changes. Or
- On the Tools menu, click Annotations, and then click Save by Default.

Annotations are saved automatically when you click outside the annotation area.

### To hide or print annotations

After an annotation has been created on a document, you can display or hide the annotations on all documents and you can configure whether annotations will be printed. This option not only affects how the annotations are displayed but how they are printed as well. When the annotations are hidden, the documents can be printed in their original form. If the annotations are visible, any documents containing annotations will also be printed with the annotations visible.

# To hide annotations

• On the Tools menu, click Annotations, and then click Hide Annotations.

Or

• Press SHIFT+F12.

### To unhide annotations

- On the Tools menu, click Annotations, and then click Hide Annotations.
- ✓ To suppress printing of annotation, you can also use the **Do not print** annotations option available in the <u>Print options</u> in the Batch Process utility. If you select this option, annotations will not print regardless of whether they are set to visible or not.

### To merge annotations

Use this function to permanently mark the current document with any annotations that have been applied to it. Annotations that are not merged will be lost if you perform image cleanup.

△ Consider the following facts before you merge annotations:

- After the annotations have been merged with the document they cannot be removed.
- Merging annotations converts the image to grayscale.
- By default, you can preserve the color information of the annotation, the images will need to be exported using the Merge Annotations + Retain Color settings in the <u>Options tab</u> of the Export Utility.
- Popup annotations are merged as an image icon.

# • On the **Tools** menu, click **Annotations**, and then click **Merge Annotations**. Or

• Press CTRL+F12.

Annotations on the currently selected page will be merged.

Merging a color annotation onto a B&W document will result in the annotation being converted to a B&W annotation to match the color properties of the document.

### To modify annotation object defaults

You can configure the default properties for common annotation object properties.

- 1. On the **Tools** menu, click **Annotations**, and then click **Default Properties**.
- 2. Select a property and then set options as needed:
  - Line Color
  - Line Width options are 1, 2, 3, 5, 10, 15 or 20.
  - Redact Color
  - **Rubber Stamp** selects the source image file.
  - Text Color
  - Text Font

New annotations will conform to the new defaults.

### **<u>To customize an existing annotation</u>**

After you add an annotation you can change its color, add a border and vary other characteristics of its appearance.

• Right-click an annotation and then click **Item Properties**.

A dialog box opens with settings particular to that object type available for you to configure.

### To enable sticky mode

Sticky Mode keeps the currently selected tool available after applying the tool to the image. This setting is useful when you need to apply the same type of annotation repetitively. If Sticky Mode is not selected, the mouse cursor will return to the selection tool after each annotation is applied.

• On the Tools menu, click Annotations, and then click Sticky Mode.

# Working with Native Documents

Native documents are the source documents upon which electronic discovery is based. They may be PDF files, Word documents, Excel files, or any number of other file types. The main tasks involved in working with native files are: extracting page counts, opening the files in the application registered to open them, inserting new native documents into the case, and converting native documents to TIFF or PDF.

# **Extracting Page Counts**

You can extract estimated page counts without having to print to paper or convert native files to TIFF or PDF. To generate estimated page counts for most common native file formats that have been imported into a case, use the Electronic Discovery Loader (ED Loader) or Turbo Import. Note the following when extracting page counts:

- Page counts are estimated because some source applications are unable to provide an exact page count without actually sending the document to a printer. The page counts returned using this process should only be considered an estimated page count.
- To obtain a more accurate page count, convert the native files to TIFF or PDF, or print the files.
- ED Loader and Turbo Import extracts page estimated counts by opening files in the native application listed in the SourceApp field and retrieving the page count value.
- ✓ Not all applications support page count extraction. For example, you cannot extract page counts from Microsoft Outlook items. If a page count cannot be extracted, a warning message will be returned to the error log.

### **<u>To extract page counts</u>**

- 1. Do one of the following:
  - Run a query using Query Builder.

Or

- On the Tools menu, click Display All Records.
- 2. On the **Tools** menu, click **Extract ED Page Counts**.

A status window appears.

After the process finishes, the **Page Count Extraction Complete** message box provides:

- Number of files processed.
- Count of pages discovered.
- Elapsed time.
- Speed in pages per hour.
- Number of errors. If errors occurred during processing, you are prompted to view the error log,
- 3. In the grid display, the **EDPages** column contains estimated page counts.

#### Applications that support page count extraction

Source application	Supports page count extractio n?	More information
Adobe Acrobat	Yes	
AutoVue Suite	Yes	
Binary/Hex Printer	Yes	
Corel WordPerfect	Yes	
eDrawings Viewer	Yes	
Image Printer	Yes	Reads the page count from the image.
Internet Explorer	Yes	Uses the alternate HTML engine to calculate page counts. Therefore, the output may not exactly match the output printed with Internet Explorer.
Microsoft Excel	Yes	Page counts for items with a source application of Microsoft Excel are estimated.
		Estimates are based on the TIFF, PDF, and e-Print Excel print options for the case.
		To view print options for Excel
		1. On the <b>Tools</b> menu, click <b>Batch Process</b> .
		<ol> <li>Click Options, click TIFF Options, and then click Excel.</li> </ol>
Microsoft Outlook	No	
Microsoft PowerPoint	Yes	
Microsoft Visio	Yes	
Microsoft Word	Yes	
Quick View Plus	No	
Shell Printer	No	

The following table lists source applications and whether they support page count extraction:

Source application	Supports page count extractio n?	More information
Snapshot Viewer	Yes	
Text/RTF Printer	Yes	
VoloView Express	Yes	Always returns a page count of 1.
<no source<br="">Specified&gt;</no>	No	Always returns 1 page to account for a slip sheet.

# Launching Native Files

The Open File drop-down list includes options for reviewing common file types quickly and efficiently using CloudNine<sup>™</sup> LAW and AutoVue, Quick View Plus, or Lotus Notes.

Note the following facts when opening native files:

- A viewer application or the native application must be installed to open native files.
- When selecting non-EDD records, the native file review mode options are ignored since native files do not exist for these record types.
- If using Quick View Plus version 9 or later, please see Avantstar's license agreement prior to using this application with CloudNine<sup>™</sup> LAW.

#### **<u>To open native documents</u>**

After native documents are loaded via ED Loader or Turbo Import, they can be opened from within CloudNine<sup>™</sup> LAW or in any associated application installed on the computer.

Open files using any of these methods:

• Click the native file hyperlink located above the **Image** display.

Image 📰 Text	3 Open File 🕞	
Native File: Carolina Power Light Compa	iny Attach.doc	

Or

• Right-click the native file hyperlink and then click **Open**.

When a user clicks the hyperlink to launch a native file, the file will launch in the application that is specified for that document in the SourceApp index field. This field is populated automatically during an ED Loader session and is based on the specifications in the file type database. If the value is set to "**No Source Specified**>", LAW will attempt to launch the file in the application assigned to this file type in the operating system. If no application is assigned in the OS, LAW will attempt to launch the file in a text editor.

The native file may also be launched by right-clicking the hyperlink and selecting Open. The application to open the file will be determined using the methods explained in the previous paragraph.

Or

• Click **Open File**. This button is located above the native file hyperlink.



The **Open File** button is similar to the hyperlink in that it will launch the native file using the application specified in the SourceApp field, in the operating system, or a text editor (see above section for details). However, this option provides more control as it allows the user to choose the application with which to open the native file. To choose an application, click the downward pointing arrow located beside the **Open File** button. Next, choose one of the popular applications in the list to view the file in that application or select "**Choose Program**..." to select any other application installed on the computer.

Another option available in the **Open File** drop-down list is **Change Source Application**. This option can be used to change the value listed in the SourceApp field for the current document. The change will affect the TIFF Conversion and E-Print processes since the SourceApp values determine the application used when printing or converting the file.

### **<u>To open files with viewer applications</u>**

In the **Open File** list, click one of the following review modes:

- Quick View Plus Review Mode to open the file in Quick View Plus.
- AutoVue Review Mode to open the file in AutoVue.
- Lotus Notes Review Mode to open the file in Lotus Notes.

When a review mode is selected, the corresponding native files are automatically opened in the selected review mode when a new record is selected. Each file opens in the same window, closing the previously opened file. The active record's DocID is

displayed in the title bar. When viewing files in the selected review mode, the files in the native viewer are synchronized with the corresponding records in CloudNine<sup>™</sup> LAW.

### To enable native e-mail review

After import, e-mail messages may be opened by their native applications, regardless of how ED Loader or Turbo Import converted the file during the import process. You can open top-level, parent messages in mail stores as well as top-level loose messages (MSG and EML) on disk.

- 1. Click the arrow to the right of the **Open File** button. The arrow is located above the image display.
- 2. Click Review Parent E-Mails Natively.

E-mail files open in the application associated with the file type in the operating system. For example, PST files open in Outlook; NSF files open in Lotus Notes. Mbox mail store files open in Eudora, or whichever Mbox-compatible application you have installed that is associated with that file type. For more information on applications that might be associated with Mbox files, see <u>Importing E-Mail Files</u>.

✓ The mail stores and loose messages must be in their original locations from which they were processed by ED Loader. If they have been moved, LAW will not be able to locate them when attempting to launch the native e-mail. If this occurs, an error message will appear stating the file could not be found and then LAW will launch the version of the file located in the <case root>\\$EDD\\$NativeFiles folder.

### To open e-mail one time in its native application

E-mails can also be opened natively without enabling the **Review Parent E-Mails Natively** option.

• Right-click the hyperlink above the image display and then click **Open Source E-Mail Natively**.

#### Reviewing native e-mail

Lotus Notes and Outlook email messages may be opened in their respective native applications after import into CloudNine<sup>™</sup> LAW, regardless of how ED Loader or Turbo Import converted the file during the import process. This feature supports top-level, or parent, messages in mail stores as well as top-level loose messages (MSG and EML) on disk.

### To review native e-mails

• In ED Loader, right-click the hyperlink above the image display and choosing **Open Source E-Mail Natively.** 

Emails open in their native application.

### To enable the option to review native e-mail items

- 1. Click the arrow to the right of the **Open File** button.
- 2. Click Review Parent E-Mails Natively.

LAW will open e-mails in either Microsoft Outlook or Lotus Notes when launching the files via the hyperlink above the image display or the Open File button.

✓ The mail stores and loose messages MUST be in their original locations from which they were processed by the ED Loader. If they have been moved, LAW will not be able to locate them when attempting to launch the native e-mail. If this occurs, an error message will appear stating the file could not be found and then LAW will launch the version of the file located in the <case root>\\$EDD\\$NativeFiles folder.

### Working with native files using Windows Explorer

Native files are stored in a special folder structure within the case folder when imported using the Electronic Discovery Loader or Turbo Import. These files are not stored in the folders that appear in the folder list on the main form but are instead stored within the <case root>\\$EDD\\$NativeFiles folder.

### To work with native files using Windows Explorer

To work with native files using Windows Explorer do one of the following:

• On the main form, right-click the hyperlink that is located above the Image display and then select **Open Containing Folder**.

Windows Explorer opens the folder that contains the native file. The native file is selected.

Or

- In LAW view the **ID** field.
  - In records that reference native files, the ID field value will contain the folder name for the native file.
  - The folder path is relative to the \$NativeFiles folder.
  - For example, assuming that the file is a Word document, if a record's ID value is 1234, then the path to the native file would be:

```
<case root>\$EDD\$NativeFiles\00\00\12\34.NTV.doc
```

• Note that ID values are padded with zeroes to form an 8-digit number when used for this purpose; for example, an ID value of 1 for a native record would result in a native path of:

00\00\00\01.NTV.doc

Understanding how this function works will allow you to browse to the native files when not using the **Open Containing Folder** option.

# **Inserting Electronic Documents**

Inserting an electronic discovery record in an existing folder of records may be useful when you want to add skipped files or when working with unsupported embedded files.

If This process is enabled for Electronic Discovery enabled cases only.

### <u>To insert electronic documents</u>

- 1. On the **Edit** menu, click **Insert** and then click one of the following:
  - **E-Document(s)**, and then click **Before Current** to insert record(s) before currently selected record.
  - **E-Document(s)**, and then click **After Current** to insert record(s) after currently selected record.
  - E-Document Attachment(s), and then click Before Current to insert record(s) as attachment to the record before the currently selected record.
  - E-Document Attachment(s), and then click After Current to insert record(s) as attachment to the currently selected record.

ED Loader opens in Insert Mode.

🔍 LAW Electronic Discovery Loade	er				Х
<u>File Edit View T</u> ools					
DeltaZ4ED					
Insert Mode Enqueued	items will be written to the	e specified position in	the target folder only.		Details
Sources Settings					
Default Target Folder:			Session Label:		
E/E			Session [&SESSION_ID]	on [&CASENAME]	
Default Custodian:			DocID Seed: (max len	. 45)	
<none></none>		×	00004174		
Source Queue					Add:
Source Name	Custodian	Target Folder			Mail Store
				[	Outlook Fldr.
					Folder(s)
					File(s)
				[	File List
					Failed Items
					View Details
					Remove:
<				>	Remove Item
Reset All Reset Names	s Reset Cstdns. Reset Fo	olders	Show so	ource paths	Clear All
Version: 7.4.49		< Bac	k Next >	Start	Cancel

### 2. Click **Details**.

The **Insert Mode Details** dialog box appears, indicating where the document will be inserted.

- 3. Review the information and then click **OK**.
- 4. Select files to insert.
- 5. Set any desired options in the **Settings** tab.
- 6. Click **Start** and then click **OK**.

The import process starts. The selected file(s) will be imported into the specified location in the case.

✓ The Default Target Folder setting cannot be configured inserting e-documents. The value will be set to the folder that was selected when choosing to insert an e-document.

# **Converting Documents to TIFF**

Single document TIFF conversion, also referred to as *manual TIFFing*, makes it easy to review a native file, make adjustments if needed, and process (or re-process) to TIFF. Once printed, users can review the image and choose to either save or discard it. Saving the image will commit the image to LAW by either replacing an existing image or by inserting the image, depending on whether or not an image previously existed for that record.

This feature provides a simple method of opening and printing otherwise unsupported file types, provided the native application is installed on the machine. This feature is also useful when reviewing and re-processing "problem" supported file types.

Multiple options should be reviewed prior to using this method of converting to TIFF images:

- Decide whether to store the resulting image as serialized (single-page) or multi-page.
- Decide whether or not to generate printed text, that is, text created during a TIFF conversion when using the LAW Image Driver.
- Determine the desired color reduction setting.
- Decide whether or not to drop blank pages.
- ▲ When you are doing single-document TIFF conversion, the time zones that are associated with image files do not automatically adjust to match the time zones of the native files. In such circumstances, if you need dates to match between the native files and image files, you can manually change the time zone on your system prior to printing to match the time zone of the native files.

## **To configure options for batch TIFF conversion**

- 1. On the **Tools** menu, click **Batch Process**.
- 2. In the **Batch Processing** dialog box, click **Options**, and then click **TIFF Options**.
- 3. Select the **TIFF Output** category.
- 4. In the **Active Driver** list, click one of the following print drivers:
  - LAW Image Driver
  - LAW Image Driver 300 DPI
- 5. Set the other TIFF output options as needed and then click **OK**.

For more information about the TIFF output options, see <u>Output Settings for E-</u><u>Print, TIFF Conversion</u>.

6. Close the **Batch Processing** dialog.

The selected options will now apply to the single document TIFF conversion process in addition to the batch TIFF conversion process.

# To convert a single document to TIFF

- 1. Select a document to be printed from its native application.
- 2. Above the image display on the main form, click the hyperlink or click **Open File**.
- 3. In the native application, print the file.
- 4. In the print dialog box, select the **Informatik Image Driver** or the **LAW Image Driver**.
- 5. Click **Properties** to adjust settings, as needed.
- 6. Print the file.

After the file has been converted to a TIFF image, the **Image Acquired** dialog box appears.

Image Acquired [DocID:	Omega00005002]	- 🗆 ×
	📼 🙀 🔤 🔎 🔎 🗐 🔍	
COV This Master Power Parchase and Sale Agreement (Version 2.) date: September 13, 2000 ("Effective Date"). The Master September 13 area (the Perty A Tartifi, Gard, the Purty B Tarti	IASE AND SALE AGREEMENT ER SHEET : molified 4/2500) ("Master Agreeweers") is made as of the following Agreeweet, together with the exhibits, schedules and any written fif oney, any designated collustent, condit support or mapin agreement i (including any confirmations accepted in accordance with Section 2.3 his Master Agreement are following: Name: ("Carolian Power & Light Company" or "Party B") All Noticest P.O. Box 1551	A A A A A A A A A A A A A A A A A A A
Promine, Texas 7200-4428 Street 1400 Smith Street City: Houses Zip: 77002 Alte: Yower Cardinal: Administration Prome: (T15) 853-1771 Proceeding: (T15) 853-1771 Proceeding: (T15) 853-1771 Proceeding: Tax ID Number: 78-0413675 Invoices Inv	Street: 411 Fayetzeville Street Mall Cip: Raleigh, NC Zip: 27093 Anr: Contract Administration Phone:: (919) 546-54845 Dars Foderal Tax: ID Number: Invitee: Anr: Phone: _	page 1
1400 Smith Houston, Texas 77002-7761 Aite: Power Settlements Managor Phone: (713) 853-563 Fasiknike: (713) 646-4061 Wire Transfor: BNK: Bonk of America Not: Tawa Power Marketing, Inc. ABA: Routling: 111090012 ACCT: 6275 066 9312 Conference: Emon Power Marketing, Inc. Credit and Collections: (713) 853-5667 Credit and Collections	Phone: Pacsimile: Wire Transfer: BNR: ABA: ACCT: Credit and Collections:	Page 3
Error Prover Markering, Inc. 1440 Smith Hauston, Jean 73082-7361 Ahn: Posse Schlemants Manager Phone: (713) 855-3363 Fassimile: (713) 646-4061	Atte: Prove: Pravinike	The second secon
Page 1 of 6 \ 600 DPI \ 5120	x 6600 pxls	page 4 🗸

7. If the image is acceptable, click the **Save the Image** button, **I**.

Clicking the **Save the Image** button adds the TIFF image to the selected record.

If you want to discard the TIFF image, click the **Discard the Image** button, 😹.

# **Grid Displays**

The grid displays in LAW are simply spreadsheet views that you can configure to show metadata associated with documents and pages. Grids help to fulfill major discovery functions, including: querying and analysis, quality control, tagging, batch processing, and reporting.

Each row of a grid holds the data for a record. Each record corresponds with an individual document or page. Each row is divided into multiple columns, also called *fields* or *index fields*, which hold metadata about the record, such as its document ID, page number or file type.

# Launching the Grids

CloudNine<sup>™</sup> LAW provides two kinds of grid:

- **Embedded**. In an embedded grid, search results are displayed in a panel that is integrated into the main window of CloudNine<sup>™</sup> LAW. Because this view shares the main window with other tools, it can be most useful when working with a limited number of fields or shorter sets of query results.
- **Standalone**. In a standalone grid, search results are displayed in a window that is separate from the main window. Because this view occupies its own window, it can be most useful when you want to work with many fields or longer sets of query results.

# To open a grid

- 1. From the main window, on the **Tools** menu, click **Search Records**. The **Database Query Builder** dialog box opens.
- 2. Configure a query to select specific records, or to return all records, leave the query with its default settings.
- 3. In the **Send Results To** list select one of the following:
  - Grid View (Embedded). Returns query results to the embedded view.
  - Grid View (Standalone). Returns query results to the standalone view.
- 4. Click **Execute**. Query results are returned to an embedded grid or a standalone grid.

### Other methods for starting grids

To start a grid use one of the following methods:

- On the main toolbar click the globe button:
- Or

• On the Tools menu, click Display All Records.

All records in the case are listed.

Or

• On the Folder menu, click Grid View.

The records in the currently selected folder are listed.

Or

• On the Folder menu, click Grid View (Recurse).

The records in currently selected folder and its subfolders are listed.

Or

- 1. On the main form click the **Grid View** button.
- 2. Click **Yes** in the prompt to run a search to populate the grid. The **Database Query Builder** appears.
  - To show results in the embedded grid, select Send results to grid on main form.
  - To show results in a standalone grid clear Send results to grid on main form.
- 3. Add any additional search criteria and then click **Execute**.
- ✓ Full text searches cannot be returned to the embedded grid. When Full text search is selected, Send results to grid on main form is disabled.

### To set a default grid

You can set as default your own preferred grid view.

- 1. On the **Tools** menu, click **Options**.
- 2. Click the **Preferences** tab.
- 3. Select **Send query results to grid on main form by default**. Results for new queries will be sent to the embedded grid view.

# Customizing the Grid View

You can change how the grid shows or hides columns, adjust column width and row height, and change the colors used. You can also make fields visible or hide fields. You can also view any extended properties or Office properties associated with a document.

# **To show or hide fields**

# To show or hide fields in the embedded grid

1. From the main form, on the **Index** tab, click the ... button next to the **Profile** list.

🖹 Index 📒	Grid View	
DocID	Omega00000001	-
Custodian	CustodianA	
EDSession	Session 0001 on OmegaApr2020	
EDSource	C:\Test Data\A\	
EDFolder	C:\Test Data\A\	
ErrorMsg		0
PrevErrMsg		~
FileType	2210	~
FileDescription	MS PowerPoint 2007-2010 Presentation (Open XML)	
FileAccuracy		
SuspectExt		
DocExt	pptx	
OrigExt		-
Profile: < Default	> Update	<u>C</u> lear

2. In the **Modify Fields** dialog box, select or deselect **Visible** on fields to make them visible or hidden.

Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	Field Order:	
_DocCat	Document	Numeric	1		<u>v</u>			DocID	1
DupID	Document	Numeric	1	2	<b>V</b>			Custodian	
DupMethod	Document	TinyInt	1		$\checkmark$			EDSession EDSource	
FTIndex	Document	TinyInt	1	<b>V</b>	~			EDFolder	
GUID	Document	Text	1		$\checkmark$			ErrorMsg	
PS ARCX	Document	TinyInt	1		<b>V</b>			PrevErrMsg	
PS_ATTX	Document	TinyInt	1		<b>V</b>			FileType	
PS DIGESTX	Document	TinyInt	1		~			FileDescription	
PS_EMBEDX	Document	TinyInt	1		~			FileAccuracy SuspectExt	- 1
PS_MDX	Document	TinyInt	1					DocExt	
PS NATIVEX	Document	TinyInt	1					OrigExt	
PS OLEX	Document	TinyInt	1		V			SourceApp	
ApplicationName	Document	Text	1		~		<b>~</b>	Filename	
Attach	Document	Memo	1		<b>V</b>			Filesize	
AttachLvl	Document	Numeric	1		~			EDPages Title	
Attachmt	Document	Text	1					Subject	
	Descent	Name	4					Author	

- 3. Click either **Save** to keep the fields you selected visible in the current profile, or click **Save As** and then create a new grid profile.
- 4. Close the Modify Fields dialog box.

Any field with **Visible** selected in the previous steps can be seen the next time you display the embedded grid.

# To show or hide fields in the standalone grid:

1. From within a grid view, right-click any column heading. The **Field List** dialog box appears.

III Field List	$\times$
TextXStatus ThreadID TiffStatus TimeAccessed TimeAppEnd TimeAppStart TimeCreated ✓TimeLastMod TimeLastPrnt TimeRcvd ✓TimeSent TimeSent	^
✓ To Unread UserId Volume	

- 2. Do the following:
  - Select any field you want to show.
  - Deselect any field you want to hide.

### To view extended properties

Custom metadata found in imported documents is placed into special fields called extended properties. You can use grid controls to view the extended properties of documents.

To view extended properties, you must customize the view of the grid control. Then, you can identify any extended property by looking for those preceded by *EP*. For example, if you import a Word document that contains a value of *Jones* in its *Typist* field, LAW will create a new field for the case called *EPTypist* and populate the field for that document with the value *Jones*.

# To view extended properties from the embedded grid

1. From the main form, on the **Index** tab, click the ... button next to the **Profile** list.

🖹 Index 🚦	Grid View	
DocID	Omega00000001	-
Custodian	CustodianA	-
EDSession	Session 0001 on OmegaApr2020	
EDSource	C:\Test Data\A\	
EDFolder	C:\Test Data\A\	
ErrorMsg		0
PrevErrMsg		0
FileType	2210	*
FileDescription	MS PowerPoint 2007-2010 Presentation (Open XML)	
FileAccuracy		
SuspectExt		
DocExt	pptx	
OrigExt		
<ul> <li>Profile: <defa< li=""> </defa<></li></ul>	ult>	

2. In the **Modify Fields** dialog box, scroll down to find fields that begin with **EP**.

Fields that begin with **EP** contain extended property data. These fields can also be identified by looking at the **Table** column. Any field belonging to the **Extended** table is an extended field.

- 3. Select **Visible** on extended property fields as needed.
- 4. Click either **Save** to keep the fields you selected visible in the current profile, or click **Save As** and then create a new grid profile.
- 5. Close the **Modify Fields** dialog box.

The extended fields you selected will be visible the next time you display the embedded grid.

### To view extended properties from a standalone grid

- 1. From the main form, on the **Tools** menu, click **Display all Records**.
  - Or click the Globe icon.

A standalone grid opens.

2. Right-click one of the column headings.

The Field List appears.

3. Select **HasExtProps**. The **HasExtProps** column appears in the grid. You might have to scroll left or right to find the column.

4. Drag the **HasExtProps** column to the grouping area.

🚱 Search Result	ts						
<u>F</u> ile <u>E</u> dit <u>V</u> iew	<u>Q</u> uery <u>T</u> oo	ls					
📙 🗞 🗞 🚽 🕻	6 🛍 🛄 👯	🗚 🗱 😝	🧐 📀 🖗	🗟   🌱 🕵   🔇	> 🏟 😖 🛛	🖁 📑 🛛 Grid Vie <u>v</u>	<u>/</u> s •
HasExtProps ∠							
DoclD	Custodian	EDSession	EDSource	EDFolder	ErrorMsg	PrevErrMsg	FileTyp
HasExtProps:	N (19335 record:	s)					
+ HasExtProps:	Y (418 records)						

- 5. Expand the **HasExtProps** record set.
- 6. Select any record with **HasExtProps** set to **Y**.
- 7. On the **View** menu, click **Extended Properties**.

A panel opens to the right of the main grid window. Any extended properties that exist for the selected document are visible.

<u>E</u> dit <u>V</u> iew	<u>Q</u> uery <u>T</u> oo							
🔌 🎽 😽 🗎	) 🛍 🛄 👯 🍕	📽 🗯 💆	🍧 🕑 🗞 🕻	8 9 %	🤊 🌚 🖽   I	🗟 📑 🔤 Grid Vie	2 <u>₩</u> 5 ▼	
asExtProps 🛆								▲ ≞ ⊉↓
DocID	Custodian	EDSession	EDSource	EDFolder	ErrorMsg	PrevErrMsa	FileType File	Office Properties
+ HasExtProps:			EDSource	EDI Older	Enonimog	Treveninisg	The type The	HasComments No
- HasExtProps: 1		•)						HasTrackChan No
		Session 000	C:\Test Data	andrew lewi			111 MS	
Omega0000	CustodianZ	Session 000		C:\Test Data			229 MS	
Omega0000	CustodianZ	Session 000		C:\Test Data			321 Tac	
Omega0001	CustodianZ	Session 000		andrew_lewi			229 MS	
Omega0000	CustodianZ	Session 000		C:\Test Data			111 MS	
Omega0001	CustodianZ	Session 000	C:\Test Data	andrew lewi			229 MS	
0mega0000	CustodianZ	Session 000	C:\Test Data	C:\Test Data			229 MS	
0mega0000	CustodianZ	Session 000	C:\Test Data	andrew lewi			164 MS	
0mega0000	CustodianZ	Session 000	C:\Test Data	andrew_lewi			229 MS	
Omega0000	CustodianZ	Session 000	C:\Test Data	andrew_lewi			229 MS	
Omega0001	CustodianZ	Session 000	C:\Test Data	andrew_lewi			229 MS	
Omega0001	CustodianZ	Session 000	C:\Test Data	andrew_lewi			229 MS	
Omega0001	CustodianZ	Session 000	C:\Test Data	jondoe\John			229 MS	
Omega0000	CustodianB	Session 000	C:\Test Data	zl_hendricks			229 MS	
Omega0000	CustodianB	Session 000	C:\Test Data	zl_hendricks			111 MS	

# **<u>To move a column</u>**

- 1. From within a grid view, right-click any column heading.
- 2. Do one of the following:
  - $\bullet$  Manually select a column heading and drag it to a new location.

Or

- Right-click a column cell and then select either:
  - **Send Column Left-most**. Moves the column to the first position on the left in the grid.
  - Send Column Right-most. Moves the column to the first position on the right in the grid.

If you close the grid you are prompted to save the change to the current grid profile. For more information on grid profiles see: <u>Managing Grid Views</u>.

#### **<u>To change column width</u>**

1. From within a grid view, click and drag either edge of a grid column heading. Release the mouse button when the column heading reaches the width you want.

Or

• From either an embedded grid or a standalone grid, right-click within a column cell and then select Shrink Column to Window. The width of the column adjusts to the space available in the window.

### To change row height

• Click and drag the top or bottom edge of any row. Release the mouse button when the row reaches the height you want.

#### To move columns, rows, and cells

Columns and rows can be manipulated in a number of ways to make certain aspects of quality control easier and more efficient.

- **To move a column**. Click and hold the column header and then drop it to the desired location.
- To move a column to the right-most position in the grid. Right-click any cell in that column and then click Send Column Right-most.
- To move a column to the left-most position in the grid. Right-click any cell in that column and then click **Send Column Left-most**.

### To change grid colors

1. From a standalone grid, in the **View** menu, select **Grid Colors**.

😵 Grid Colors	$\overline{\mathbf{X}}$
Row color o <u>d</u> d:	Reset
Row color even:	
Grid <u>l</u> ine color:	ОК
Grid <u>t</u> ext color:	Cancel

The Grid Colors dialog box opens.

- 2. Click the button next to any of the following:
  - Row color even
  - Row color odd
  - Grid line color
  - Grid text color
- 3. In the **Color** dialog box, select a color and then click **OK**.
- 4. Click **OK** again to save your selection.
- Mote the following:
  - While you are editing the grid colors, if you click the **Reset** button the currently selected grid colors return to the colors selected when you opened the **Grid Colors** dialog box.
  - If you close the **Grid Colors** dialog box, grid colors change to those you selected. The colors persist when you close the grid and then re-open it. They also persist in the embedded grid view.
  - If you then re-enter the grid, open the **Grid Colors** dialog box, and then click **Reset**, the colors will not change to their original defaults. The colors do change to their values that were in place when you opened the dialog box.

### To sort grid records

In the standalone and embedded grids, you can sort records based on one or more visible index fields.

### To sort by a single field when the grid is not grouped

In the column by which want to sort, click a cell and then do one of the following:

• On the **Tools** menu, click **Sort Records**, and then click **Ascending** or **Descending**. Or • Click either the **Ascending** (<sup>12</sup>) or **Descending** (<sup>12</sup>) button located on the grid toolbar.

### To sort by a single field when the grid is grouped

When the grid is grouped, you will need to use the column headers to sort the grid, because sorting the grid from the grid toolbar will cause you to lose the grid grouping. For more information about grouping search results, see <u>Grouping Search Results on a</u> <u>Grid</u>.

1. Click the column for the field you want to use to sort the records.

By default the records are sorted by the field in ascending order. When fields are sorted in ascending order, the up arrow is displayed next to the field name in the column header.



The down arrow is displayed next to the field name when the records are sorted in descending order.



2. To sort the records by the field in descending order, click the column again to resort the records by the field in descending order.

The sort order is retained when grouping by one or more fields, and groupings are retained when sorting by a field from a column header. For example if you sort the records by the DocID field, and group the records by the DocExt field, the records will be grouped by file extension, and the records listed under each file extension will be listed in DocID order.

D	DocExt ∧							
		DocID 🛆	From					
	- DocExt: bmp (3 records)							
		00004141						
		00010680						
		00011021						
	_	DocExt: loss (3)	records)					
		00000365						
		00009980						
		00011413						

# To sort by multiple fields

You use the Advanced Sort feature to sort by up to four index fields at one time. A different sort direction may be specified for each of the four fields: ascending or descending.

1. On the Tools menu, click Sort Records, and then click Advanced Sort.

Or

• Click the **Advanced Sort** button on the toolbar (

The **Advanced Sort** dialog box appears.

🖬 Advanced Sort	×
Sort by HasExtProps	Ascending     Descending
Then by	<ul> <li>Ascending</li> <li>Descending</li> </ul>
Then by	Ascending     Descending
Then by * Memo fields cannot be sorte	Asc <u>e</u> nding     Des <u>c</u> ending ed, and have been hidden
	<u>O</u> K <u>Cancel</u>

2. Choose fields from one or more of the drop-down lists.

Note the following:

- Memo fields cannot be sorted and therefore will not appear in the lists.
- Records are sorted in the order in which they appear in this dialog box. For example, in the above image, records would first be sorted by DateSent in Ascending order, then by From (Descending), then by EDFolder (Ascending), then by Importance (Descending).
- 3. Click **OK** to apply the sort to the current set of records.

### **<u>To view attachment fields</u>**

- 1. From the main form, on the **Tools** menu, click **Display all Records**.
  - Or click the Globe icon.

A standalone grid opens.

- 2. On the View menu, click Attachment Fields.
- 3. Scroll to the far right of the grid.

The following fields are now available: **BegAttach**, **EndAttach**, **AttRange**, amd **Attachmt**.

4. Right-click on a column header to display the **Field List** and then select **AttachPID** and **AttachLvI** fields.

5. Interpret values shown in these fields as follows:

# • BegAttach

References the beginning number of the attachment. This is the first number assigned to the parent document of the attachment group.

# EndAttach

References the ending number of the attachment group. This is the last number assigned to the document page within the attachment group.

# • AttRange

Provides the range from the start of the parent to the last page of the final attachment.

# • Attachmt

Populates the parent level only. This is the list of attachments found within the parent document.

For more information about these fields, please see the Field Descriptions topic.

# Filtering Search Results on a Grid

You can filter the records shown in a grid based on the values stored in fields. Filtering can be performed on the entire database or on search results.

If a grid displays do not currently support Unicode. However, Unicode data can be displayed by resting your pointer over a cell containing Unicode. The Unicode data appears in a pop-up text box beside the cell. For more information about support for Unicode in CloudNine™ LAW, see: Unicode Support.

### To filter records

- 1. Open a grid display.
- 2. Do one of the following:
  - To return all records that match the value in a cell, right-click the cell, and then click **Filter by Selection**.
  - To return all records that do not match the value in a cell, right-click the cell, and then click **Filter Excluding Selection**.
  - To return all records containing duplicate values in a specific field, right-click any cell in the field's column, and then click **Filter by Duplicate Values**.

You can also filter records by duplicate values by clicking **Find Duplicate Values** from the **Tools** menu on the main window. For more information, see <u>To</u> <u>filter records by duplicate values</u> in this topic.

For example, to view only records with the .xls file extension, you would right-click one of the cells containing xls, and then click **Filter by Selection**.

il	e Edit Vie	w Query	Tools									3
			- \$\%_ \$\%_ \$\# \$	ABC _0 -				Grid Views -				
	S S S	••••	▼z ■A ♥Ξ   0	<b>* * </b> ]   *	1989   A 1989	V 18 📼		ond views -				
	ag a column hei	ader here to gro	up by that colum									^
T	DoclD	Custodian	EDSession	EDSource	EDFolder	ErrorMsg	PrevErrMs	g FileType	FileDescription	FileAccuracy	Suspect	Ext
	Omega0000	CustodianA	Session 000	C:\Test Data	C:\Test Data	1		2210	MS PowerPo			
	Omega0000	CustodianA	Session 000	C:\Test Data	\$RECYCLE			456	Initialization F			_
	Omega0000	CustodianA	Session 000	C:\Test Data	System Volu			660	Log File (Unk			
	Omega0000	CustodianA	Session 000	C:\Test Data	C:\Test Data			1060	Standard Ge			
Þ	Omega0000	CustodianA	Session 000	C:\Test Data	C:\Test Data			2209	MS Excel 20			
T	Omega0000	CustodianA	Session 000	C:\Test Data	C:\Test Data			2208	MS Word 2	Filter by Select		
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			148	MS Outlook	Filter Excluding Selecti	-	
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			4679	Adobe Port-	Filter by Duplie Remove All Fil		es
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			4679	Adobe Port-	Remove All Fil	ters	
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			148	MS Outlook	Shrink Columr		
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			164	MS PowerF	Send Column		
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail	Native		326	MS Office E	Send Column	Right-m	ost
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			4678	Adobe Porta			
Т	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			148	MS Outlook			
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail	File is		111	MS Excel W			_
	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
1	Omega0000	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
	cord: I	5 of	<b>F F C</b>			1	1	1			i	<b>&gt;</b>

Clicking **Filter by Selection** filters the search results so that only records containing files with the .xls file extension are displayed.

- 3. Add more filters on the search results as needed.
- ✓ To process the filtered documents, launch the Batch Process or Export Utility from the grid; only the current record set will be selected for processing.

#### To filter records by duplicate values

In addition to filtering records using the **Filter by Duplicate Values** menu selection in the grid view, you can also locate duplicate values within specific case fields using the Find Duplicate Values menu selection on the Tools menu in the main LAW window.

1. In the main window, on the **Tools** menu, click **Find Duplicate Values**.

Clicking Find Duplicate Values opens the Select Target Field dialog box.

Select Target Field		
Available Fields:		
Available Fields.		
EDPages	A	
EDSession		
EDSource		
EMail_Subject		
EMailClient		
EntryID ErrorMsg		
FileAccuracy		
FileDescription		
Filename		
Filesize		
FileType		
From		
HasAnnotations		
HasBookmarks	OK	1
HasExtProps		1
HasPageLimit	Y Cancel	
HasRedaction	✓ <u>C</u> ancel	

- 2. In the **Available Fields** list, click the field where you want to find duplicate values.
- 3. Click **OK**. Your search results are opened in the grid view. All records containing duplicate values in the selected field are listed in the search results.

Null values are not considered when identifying duplicate values in a field. If there are no duplicate values in the selected field, the *No records were found for the specified query*. message is displayed.

4. To sort the duplicate values in the selected field in ascending or descending order, click the field's column header to sort the records.

### To remove a filter

You can remove filters to view the original set of records returned for the search results.

- 1. Right-click any cell in the grid. The filtering options appear.
- 2. Click Remove All Filters.

# Grouping Search Results on a Grid

You can group search results based on field values. This feature is useful when you want to view records organized by field values for the purpose of analysis or review.

	Query Tools					😭 🛛 Grid Vie <u>w</u> s					
i 🔌 😂 🤸 🖻	□ ↓ ₩ *2 1	🕺 😫 😽 🦉	<u>//</u> / @ 🕼	Y 🏂 🔊	49 E   65	Grid Vie <u>w</u> s	•				
rag a column header	here to group by	that column.									
DocID	Custodian	EDSession	EDSource	EDFolder	ErrorMsg	PrevErrMsg	FileType	FileDescription	FileAccuracy	SuspectExt	D
Omega00000001	CustodianA	Session 000	C:\Test Data	C:\Test Data			2210	MS PowerPo			
Omega00000002	CustodianA	Session 000	C:\Test Data	\$RECYCLE			456	Initialization F			
Omega00000003	CustodianA	Session 000	C:\Test Data	System Volu			660	Log File (Unk			
Omega00000004	CustodianA	Session 000	C:\Test Data	C:\Test Data			1060	Standard Ge			
Omega00000005	CustodianA	Session 000	C:\Test Data	C:\Test Data			2209	MS Excel 20			
Omega00000006	CustodianA	Session 000	C:\Test Data	C:\Test Data			2208	MS Word 20			
Omega00000007	CustodianA	Session 000	C:\Test Data	Loose E-mail			148	MS Outlook			
Omega00000008	CustodianA	Session 000	C:\Test Data	Loose E-mail			4679	Adobe Porta			
Omega00000009	CustodianA	Session 000	C:\Test Data	Loose E-mail			4679	Adobe Porta			
Omega00000010	CustodianA	Session 000	C:\Test Data	Loose E-mail			148	MS Outlook			
Omega00000011	CustodianA	Session 000	C:\Test Data	Loose E-mail			164	MS PowerPo			
Omega00000012	CustodianA	Session 000	C:\Test Data	Loose E-mail	Native		326	MS Office Bi			
Omega00000013	CustodianA	Session 000	C:\Test Data	Loose E-mail			4678	Adobe Porta			
Omega00000017	CustodianA	Session 000	C:\Test Data	Loose E-mail			148	MS Outlook			
Omega00000018	CustodianA	Session 000	C:\Test Data	Loose E-mail	File is		111	MS Excel W			
Omega00000019	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
Omega00000020	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
Omega00000021	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
Omega00000022	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
Omega00000023	CustodianA	Session 000	C:\Test Data	Loose E-mail			111	MS Excel W			
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The number of records that contain a particular value is listed beside the value for each group.

The following table describes how to work with grouping records:

When you want to do this	Perform these steps
View grouped records.	1. Start a grid view.
	2. Drag the column header of the field you want to group by into the grouping area. The grouping area is located just above the column headers.
	Documents are grouped by each unique value found in that field.
Add a second level of grouping.	• With one or more groups already added to the grouping area, select a field and then click and drag it into the grouping area.
Expand an individual group.	• Click the plus sign (+).
	When a top-level group is expanded, a second grouping will appear below it. Up to four levels of grouping may be applied at one time.
Collapse an individual group.	<ul> <li>Click the minus sign (-).</li> </ul>
Expand or collapse all groups.	• Right-click any group and then select either <b>Expand All Groups</b> or <b>Collapse All Groups</b> .
Remove groups.	• To remove a single grouping, click and drag the column header from the grouping area to the area containing the column headers.

When you want to do this	Perform these steps
	<ul> <li>To remove all groups at once, right-click on any grouping in the grid and then select Clear All Groups.</li> </ul>

## Managing Grid Views

After you close a grid, if you changed certain grid properties, you are prompted to save the properties to a grid profile. A grid profile captures: visibility and placement of fields, column width, and row height.

When you save a grid profile you give it a name and set its access level. The access level can be set to one of three levels:

- **User** Available to the current user in the current case. Stored in the case folder structure (\$UserData). A profile of this type may be deleted only by the user who created it.
- **Shared** Available to any user in the LAW case in which the profile was created. If a profile is shared, LAW will automatically display "(Shared)" after the profile name. This profile is also stored in the case folder structure (\$UserData). A profile of this type may be deleted by any user.
- **Global** Available to any user in any LAW case. If a profile is global, LAW will automatically display "(Global)" after the profile name. Global profiles are stored in <application path>\Shared folder. A profile of this type may be deleted by any user.
- ☑ The grid displays do not support Unicode. However, Unicode data can be displayed by resting your pointer over a cell containing Unicode. The Unicode data appears in a pop-up text box beside the cell.

## To create a grid profile

- 1. From within either type of grid, change the visibility of fields, their placement, the width of any column, or the row height. For more information on making these changes see: <u>Customizing the Grid View</u>.
- If using either type of grid, on the grid view menu bar, click Grid Views and then click Manage Views. If you are using a standalone grid you may alternatively click the View menu, click Grid Views and then click Manage Views. The Manage Grid Views dialog box appears.

Manage Grid Views	×
<u>File Edit View T</u> ools	
Type/Scope:	
<all available="" views=""></all>	•
Grid Views	
Name	Scope
<default></default>	User
<u>N</u> ew <u>D</u> elete	
	Cancel Save

- 3. Click New.
- 4. Type a name for the profile.
- 5. Click the list next to the name field and then select a scope.
- 6. Click **Save**.

### To modify an existing grid profile

You can modify any grid profile, including the <Default> profile.

- 1. From either type of grid, on the grid menu, select **Grid Views** and then select a grid profile.
- 2. Change the column placement, visibility of fields, or row height of the grid as needed.
- 3. Again, on the grid menu, select Grid Views and then click Manage Grid Views.
- 4. Click Save.

## To switch profiles

You can switch between profiles. When you switch profiles, the settings for the newly selected profile are loaded.

• In the active grid, on the **View** menu, click **Grid Views** and then select a grid view.

## **<u>To delete a grid profile</u>**

If the scope of a grid profile is set to Shared or Global, then the profile may be deleted by anyone. A profile created at the level of User may be deleted only by the user who created it. The <Default> profile may not be deleted.

- 1. In a grid display, on the **Views** menu, click **Grid Views** and then click **Manage Views**. The **Manage Grid Views** dialog box appears.
- 2. Select a profile to delete.
- 3. Do one of the following:
  - Press the DELETE key.
  - Or
  - On the Edit menu, click Delete.

## To change the default path for global queries and profiles

To share a global profile among multiple computers, you place the file that holds the profile on a network share that is accessible to all computers. Then you can open LAW on each computer and configure the default path to point to the file located on the network share.

The new path becomes the default for each of the following:

- Global queries
- Global index field profiles
- Global grid profiles
- 1. From the main window in CloudNine<sup>™</sup> LAW, on the **Tools** menu, click **Options**, and then click the **Preferences** tab. The **Preferences** tab appears.

Options
Imaging Indexing Notifications Numbering OCR Preferences
<ul> <li>Add all new list field values to list on update</li> <li>Allow selection of multiple list items</li> <li>Separator character ;</li> </ul>
Auto-advance after updating a document
Calculate total pages in batch/export dialogs Enable SQL Server/SQL Express support
<ul> <li>Link to source files in place when importing load files</li> <li>Prompt to continue scanning when feeder is empty</li> </ul>
Refresh duplicate status after deleting records Send query results to grid on main form by default
Start the Management Console on Windows startup
✓ Notify if new version available
Path for global profiles, grid views, and filters:         C:\Program Files (x86)\LAW50\Shared\         Browse
<u>O</u> K <u>Cancel</u>

- 2. Click **Browse**.
- 3. Type a network path or select a folder.
- 4. Click **OK** and then click **OK** again.
- 5. Switch to Windows Explorer.
- 6. Copy the folders in C:\Program Files\LAW50\Shared\.
- 7. Paste the folders to your newly chosen folder.

## **Grid Functions**

This topic describes procedures for working with grid data and viewing grid reports.

✓ The grid displays do not currently support Unicode. However, Unicode data can be displayed by resting your pointer over a cell containing Unicode. The Unicode data appears in a pop-up text box beside the cell.

## **<u>To copy contents between columns</u>**

The contents of a grid column, can be copied into another column.

- 1. Make sure a field to accept the incoming data has been created.
- 2. Start a standalone grid.
- 3. Click the column header of the source field.
- 4. On the **Edit** menu, click **Copy**.
- 5. Click the column header of the destination field. Note that LAW will not copy data into locked or system fields.
- 6. On the **Edit** menu, click **Paste**.
- 7. Click **Yes** to proceed with the copy.
- ▲ Copying data into a field of a different type (e.g. memo to text) in this manner could result in a loss of data.

## To save grid data to file

You can save the visible field data that is displayed in a grid. Saving grid data to a file is useful when you want to work with grid data in a word processor or spreadsheet. Only fields visible in the grid will be included in the output file.

## **Text formats**

CloudNine<sup>TM</sup> LAW can save grid data to a text file encoded using any of the following text formats:

- Comma separated value (CSV): ANSI. Can be imported into Microsoft Excel.
- Tab delimited: ANSI. Can be imported into Microsoft Excel.
- Tab delimited: Unicode UCS-2. This format can be opened directly with versions of Microsoft Excel.

- Tab delimited: Unicode UTF-8. Can be imported into Microsoft Excel.
- If you want to open the file directly using a version of Microsoft Excel, using the Tab delimited: Unicode UCS-2 format is recommended. To open a file saved to a different format using Excel, try opening a new spreadsheet in Excel first, and then import your file using the data import function within Excel.

## To save grid data to file

1. From a grid, on the **File** menu, click **Save**, or click the Save button in the toolbar. The **Save Options** dialog box appears.

Save Options	×	
Output Filename		h
C:\LAW Cases\OmegaApr2020\results.c:	sv <u>B</u> rowse	
Text format: CSV (Comma delimited)	-	
Documents	Override Default Delimiters	h
Save all records	Field , (044) 📼	
O Save selected records	Text ''(034) 💌	
	Newline © (174) 📼	
Total: 19,753 docs	Restore Defaults	
NOTE: To display Unicode text in MS Excel, create a tab delimited UCS-2 file.	<u>Save</u> <u>Cancel</u>	

2. Configure options for saving the file. These options are described as follows:

When you want to do this	erform these steps	
Save the file to a different location or	Click <b>Browse</b> .	
change the name of the file.	The Save Results As dialog box appears.	
The default path	Select a new location to save the file, type a different filename, or change the text format for the file.	
and file name for saving grid data	Click <b>Save</b> .	
<b>to file is:</b> <current case<="" td=""><td>The <b>Save Results As</b> dialog box closes. The <b>Save Optio</b> dialog box is still open. Note that your selections are sa</td><td></td></current>	The <b>Save Results As</b> dialog box closes. The <b>Save Optio</b> dialog box is still open. Note that your selections are sa	

When you want to do this	Perform these steps
path>\results.c sv.	
Change the text format of the output file.	Click the <b>Text format</b> drop-down, and then select the text format for the output file.
Choose between saving all the records in the grid or just the records that are highlighted.	
Specify text delimiters other than the defaults.	Select <b>Override Default Delimiters</b> and then, as needed, select new characters to use to specify fields, to surround text, and to indicate new lines.
Reset text delimiters to their default values.	Select <b>Override Default Delimiters</b> and then click <b>Restore Defaults</b> .

- 3. Click **Save**.
- 4. After the file is saved, the **Save Results** dialog box appears.
- 5. Click **Yes** to open the file using the default application registered in Windows for the chosen file extension, or click **No** to return to the grid.

## To print the contents of a grid

The visible field data associated with records displayed in a grid may be printed. Only fields visible in the grid will be included in the output.

- 1. Select records to print or select none to print all records.
- 2. On the grid toolbar, click the Print button () and then click either:

## • Print Selected Records Only.

Or

- Print All.
- 2. Select a printer and set other print options.

3. Click **OK**.

## To batch update grid data

You can use the Batch Update tool to change the value stored in one or more fields for all the records in a grid at once. For example, if you sent all the source documents for a case to a specific custodian, you could use the Batch Update tool to update the Custodian field for all the case records at once.

1. From a standalone grid, on the **Edit** menu, click **Batch Update**. The **Batch Update** dialog box appears.

穿 Batch Update			_		$\times$
🖶 🕂 🕂 🕂 🕂 🕂	emove Field				
Field	Value				
Auto-increment s	elected text/memo fields	ОК		Cano	el

- 2. In the **Field** list select the field that you want to update.
- 3. In the **Value** area type the value that should go in the field.
- 4. Exercise the following options as needed:
  - To add a new field to the list, click Add Field.
  - To remove a field from the field list, click anywhere in the row and then click **Remove Field**.
  - To append an incrementing number to each value, select **Auto-increment** selected text/memo fields.

5. Click **OK**. A message box reports the number of records updated.

## To reset flags for indexing or OCR

In the standalone grid display, you can reset flags to ON or OFF that apply to full text indexing or OCR. The flag setting options described here apply flags to all records in the grid display, not just to highlighted records.

- 1. Open a standalone grid.
- 2. Click the **Tools** menu.
  - To reset tags for full text indexing on all records in the grid, click **Reset Full Text Flags** and then click **ON** or **OFF**.
  - To reset tags for OCR on all records in the grid, click **Reset OCR Flags** and then click **ON** or **OFF**.

For information on working with OCR flags, see <u>Flagging Documents/Pages for OCR</u>. For information on working with full text indexing flags, see Full Text Indexing.

## To check spelling of grid data

You can use the spell check feature to find and fix misspelled words in user-defined fields. The spell checker cannot be used to check spelling in system fields or fields that are locked.

- 1. Ensure the user-defined, unlocked field to be searched is visible in the standalone or embedded grid.
- 2. Select a cell in the column that you want to spell check.
  - If in an embedded grid, on the grid toolbar, click the spell check button:  $\overset{@}{=}$
  - If in a standalone grid, click the spell check button, or on the Tools menu click Spell Check.
- 3. The **Spelling Check** dialog box appears. The first word in the column not found in the dictionary is displayed in the **Change To** field.
- 4. Exercise an option to spell check the word that appears in the **Change To** field. These options are described as follows:

To use this option	Perform these steps
Ignore this instance of the word.	• Click <b>Ignore</b> .
Ignore all instances of the word.	Click Ignore All.
Edit the word directly but do not add it to the dictionary.	• Edit the word in the <b>Change To</b> field and then click <b>Change</b> .
Edit the word directly and add it to the dictionary.	• Edit the word in the <b>Change To</b> field and then click <b>Add</b> .
Replace this instance of the word with a suggested word.	<ul> <li>Double-click the suggested word.</li> </ul>
Replace all instances of the word with a suggested word.	• Select the suggested word and then click <b>Change</b> All.

#### To use a grid to permanently delete records

From a standalone grid you can permanently delete records along with their associated files and field data.

- $\triangle$  Deleting records from the grid is a permanent operation and cannot be undone.
- 1. Select one or more rows to be deleted.
- 2. On the Edit menu click Delete Record(s).
- 3. Click **Yes** on the warning message box.

The records are permanently deleted.

## To view document and page totals

The number of documents currently displayed in the grid is shown at the bottom of the dialog in between the navigational arrows. If a page-level query was executed, this number will be the total number of pages instead.

• From a standalone grid, on the **View** menu, click **Doc/Page Totals**.

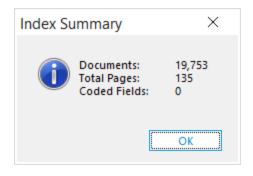
The document and page counts appear in the lower right corner of the grid. For example, Documents: 660 / Pages: 21,166.

▲ Because additional time is needed to calculate the total documents and total pages information, viewing totals for documents and pages will introduce a slight delay, relative to the size of the case, when opening either grid or when returning records from the query builder. To prevent this delay, simply disable this setting via the standalone grid. On the **View** menu, click **Doc/Page Totals**.

#### **<u>To generate an index summary</u>**

An index summary can be generated from the standalone grid. When invoked, this feature will display a message box containing three pieces of information: total number of documents currently displayed in the grid, total number of pages associated with the documents currently displayed in the grid, and the total number of fields associated with the currently displayed documents that are coded with information.

From a standalone grid, on the **Tools** menu, click **Summary**. The **Index Summary** message box appears.



## **Creating Control Lists from a Grid**

From a grid display, you can create control lists, which can be used to import text files into CT Summation and other applications.

The control list that a grid display generates is a text file with a .lst extension.

For each record in the control list, the file contains a beginning document number (BegDoc#) and the path to the associated text file.

During the control list export process you can optionally export the text from each document listed. You may specify to include: text from optical character recognition (OCR), printed text, or extracted text. By default, the limit of exported text files is 1,000. You can increase this number by editing an initialization file. For more information see **Configuring control lists for large record sets** in this topic.

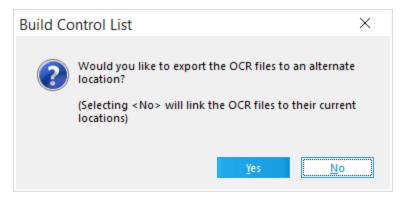
If A control list may also be created by the Export Utility of CloudNine™ LAW.

## To create a control list

1. From the main window, on the **Tools** menu, click **Search Records**. The **Database Query Builder** dialog box opens.

pin:	Saved Filters Search <u>H</u> istory	Operator:	Value (text):	
AND -	DoclD	Equals	value (text).	
			(+	Add Condition
			+)	Insert Before
			(-	Remove
			-)	Remove All
			x	
AND				
			^	Dictionary
				Options
				Load Terms
				Full Text Reports
			U	Tag Text Hits
	all Page IDs with query results 🗌 Use NOLOCK to im	prove performance (SQL only/read-only		nent groups

- 2. Configure a query to select specific records, or to return all records, leave the query with its default settings.
- 3. In the Send Results To list select Grid View (Standalone).
- 4. Click **Execute**. Query results are returned to a standalone grid.
- 5. On the **Tools** menu, click **Build Control List**. The **Build Control List** message box appears.



- 6. Do one of the following:
  - Click **No** to link the control list text path to the current location of the text.
  - Click **Yes** to identify a new path for copied text files, and then specify that path.

After the control list file is created, a confirmation message appears.

7. Click **Yes** to view the control list, or click **No** to return to the grid.

## <u>Configuring control lists for large record sets</u>

By default, LAW will place no more than 1,000 text files in the selected output folder. If more than 1,000 files are found prior to the text export, a notification will appear.

The files per folder limit can be modified by adding the following setting in the C:  $Program Files (x86)\Law50\law50.ini file:$ 

```
[Summation]
ControlListFileLimit=1000
```

If the [Summation] section already exists, then just place the ControlListFileLimit key below the existing section. Change the value as needed. After invoking the Build Control List menu item and choosing Yes to export the text files to a new location, if LAW determines the number of text files will exceed this value, an error message is displayed.

The number in parentheses will match the value in the INI setting or the default of 1,000. Specify the name of the first folder to hold the exported text files. After the specified number of text files are placed in this folder, LAW creates a sequential folder to hold the next set.

If a case is enabled for electronic discovery ("ED-enabled) and the records in the standalone grid have associated images, LAW may prompt to choose between the DocID or BegDoc# fields for the image tag (or document identifier).

If the BegDoc# is not populated for the images in an ED-enabled case, the DocID field will be used automatically. Lastly, LAW will offer to launch the control list file once it has been created. The file extension is .lst and can be viewed in any text editor.

## **Creating Outlook .PST Files**

From a standalone grid, you can create Outlook PST files for visible records of the following file type:

- Messages imported from Outlook mail stores
- Loose Outlook messages (\*.msg)
- Loose RFC-822 messages (\*.eml)

Note that only top-level messages and loose e-mail items are added. Message attachments become part of the parent items, regardless of whether or not these attachment records are shown in the grid.

## To create Outlook PST files

As of Version 6.17.96+, you have the ability to create a PST from MBOX files.

- 1. From the main window, on the **Tools** menu, click **Display All Records**, or run a query using Query Builder with results sent to a standalone grid.
- 2. From a standalone grid with source records visible, on the **Tools** menu click **Create Outlook PST**.

The **Create Outlook PST** dialog box appears.

If no supported message records exist in the record set, a message box reports this condition and then returns to the grid.

- 3. Click **Browse** to specify a path and file name for the new PST. If an existing PST is selected, LAW will present an option to either append to or overwrite that file.
- 4. Specify the root output folder, noting the following:
  - The **Root Output Folders** area below the output path contains two columns. The first column will display "Loose Messages" for any supported loose e-mail message records found in the grid and will display the file name (minus the extension) of the original PST mail store from which the store-based records originated. These values will be used as the root folders in the output PST file. To change any of these default folders, type the values into the text box or boxes.
  - The second column will display **<Loose E-Mails on Disk>** for the supported loose e-mail message records found in the grid and will display the path to the original PST mail store for any store-based records. The Create Outlook PST feature creates new PSTs (or appends existing) by accessing these original stores and/or loose messages.
  - The mail stores and loose messages must be in their original locations from which they were processed by the ED Loader. If they have been moved, LAW will not be able to locate them and the new PST files cannot be generated. LAW will present a list of mail stores that have been moved when invoking the menu item in the grid.
- 5. Click **OK**.

A status bar displays the percentage completed.

When complete, a report appears that lists the total number of top-level messages added, the number of errors, elapsed time, and average speed. If errors occurred during the process, the error log may be launched from the status screen as well. Error logs are stored in the root of the case folder in a file named pst errors.txt.

# Searching

Query Builder is the tool you use in LAW to search full-text and metadata associated with documents and pages.

## **Creating Queries**

You use the Database Query Builder utility, also known as Query Builder to search case records. A search can be based on field values, the full text of documents, or on some combination of both. For more details on performing full text searching or combining field value searches with full text searching see <u>Full Text Searching</u>.

To start the Query Builder from the **Tools** menu click **Search Records**, or click **Search Records** on the Toolbar. The **Database Query Builder** displays.

🕅 Database Query Builder			×
<u>File Edit View</u>			
Advanced Saved Filters Search History			
Join: Field Name:	Operator:	Value (text):	
AND V DociD	Equals		
		, (+	Add Condition
		+)	Insert Before
		(-	Remove
		-)	Remove All
		х	
AND Full text search			
		^	Dictionary
			Options
			Load Terms
			Full Text Reports
		U	Tag Text Hits
		*	
Return all Page IDs with query results Use NOLOCK to improve	e performance (SQL only/read-onl	y) Return parent/attachme	nt groups
Send Results To: Grid View (Standalone)		E <u>x</u> e	ecute <u>C</u> ancel
No clauses currently defined			

## To run a basic query

1. In the **Database Query Builder** dialog box select a **Field Name**, select an **Operator**, and if necessary type comparison text into the **Value (text)** field.

Optio n	Description
Field Name	Lists all the fields in the current case. Select the field to be searched from this list.
	For long field names, if you cannot view the full field name in the Field Name field, place your mouse pointer over the Field Name field to display the field's full name.
	☑ In Access-based cases, the Database Query Builder does not list extended properties. You can create queries that use the HasExtProps field, send these results to a grid, and then sort and filter by extended properties, which are visible in grid displays in Access-based cases.
Operat or	The Operator determines what type of search to apply for the specified value. Available operators are:
	<b>Equals</b> - matches specified value (NOT case sensitive).
	<b>Does Not Equal</b> - does not equal specified value (NOT case sensitive).
	Greater Than - greater than specified value.
	Less Than - less than specified value.
	Greater or Equal - greater than or equal to specified value.
	Lesser or Equal - less than or equal to specified value.
	Is Empty - field has no value.
	Is Not Empty - field has any value.
Value	

- Wildcard characters (\* for any string of characters, and ? for any single character) can be used with either the Equals and Does Not Equal operator.
- The **Is Empty** and **Is Not Empty** operators do not require a value. The **Value** field will be removed if either of these operators is selected.

## 3. Click Add Condition.

4. Add more conditions as necessary to modify the query.

To modify the query like this	Try this
Narrow the query.	Add an OR condition.
Broaden the query.	Add an AND condition.
Group or ungroup conditions.	<ul> <li>Use the (+ and +) buttons to group a condition.</li> <li>Use the (- and -) buttons to ungroup a condition.</li> <li>Click the X button to remove all groupings.</li> </ul>
Create or modify a search based on keywords. For SQL Server-based cases only.	<ol> <li>Remove any field based conditions.</li> <li>Click <b>Dictionary</b>.</li> <li>Select words to add to the query.</li> </ol>
Remove a condition.	Select the condition and then click <b>Remove</b> .

Remove all Click <b>Remove All</b> . conditions.	
--	--

- 5. In the **Send Results To** list, select the utility that will receive the query results:
  - Batch Process
  - Batch Update
  - Export Utility
  - Grid View (Embedded)
  - Grid View (Standalone)
  - Report Viewer
  - Scan For Errors
- 6. Select the output options as needed:
  - **Return all Page ID's with query results** Select this option to return a page-level query for the returned documents. The grid view will display a record for every page of each document. Additional page-level fields also become available after selecting this option.
  - **Return parent/attachment groups** Displays documents matching the specified search criteria and will also display any parents or attachments of those documents. This does not imply that both the parent/attachments also match the search criteria, however. Enabling this option may require additional time for the query to return results.
  - When the Return parent/attachment check box is selected in the Database Query Builder dialog box and you have field search information in the top box of the Advanced tab and search text entered in the Full text search box at the bottom of the tab, when the search runs, LAW will do the following in the order listed:
    - 1. LAW will run the field(s) search.

- 2. LAW will return all parent documents and attachments associated with the documents returned in the field search.
- LAW will run the full-text portion of the search against the documents returned for the field search results and its associated parent documents and attachments.

The end search results will be the field search results and the parents documents and attachments associated with the field search results that match the field search criteria and the full-text search criteria.

- Use NOLOCK setting to improve performance (SQL only/read-only) This option can help to improve performance of queries of SQL Server-based cases. With this option, the result set is read-only, and updates will not be available in the grid. The NOLOCK setting should only be used in cases where updates in the grid are not necessary, for example, when executing a query that will be used to run a batch process or export.
- 7. Click Execute.

After you run a search it is automatically saved in the **Search History** tab. You can also save the search so that it appears in the **Saved Filters** tab. For more information see <u>Saved Searches and Search History</u>.

## **Field-Based Queries**

## To create field-based queries

- 1. From the main window in CloudNine<sup>™</sup> LAW, on the **Tools** menu, click **Search Records**. The **Database Query Builder** opens.
- 2. Configure your search as follows:

To find documents that match these criteria:	Configure search Field - Operator - Value like this:
Microsoft Office documents with more than one revision. A document increases its revision number each time it is saved after being edited.	Revision   Is Greater Than   1
Microsoft Word or Excel file with tracked changes.	HasTrackChanges   Equals   Y
E-mails with "Accounting" in the subject line.	EMail-Sub   Contains   Accounting
E-mails sent after June 15 2010.	DateSent   Greater than   6/15/2010
Any document created before June 15 2010	DateCreated   Less than   6/15/2010

To find documents that match these criteria:	Configure search Field - Operator - Value like this:
Documents whose text was successfully extracted during TIFF conversion process.	TextPStatus   Equals   C
Documents that had no text extracted during TIFF conversion process.	TextPStatus   Equals   N
Documents whose text extraction during TIFF conversion process resulted in an error.	TextPStatus   Equals   E

- 3. Click Add Condition.
- 4. In the **Send Results To** field, select one of the tools as needed.
- 5. Click **Execute**.

## Full Text Searching

You can use the Query Builder to perform full text searching of case records, and to perform complex searching by creating a search based on full text and field values.

Note the following facts about full text searching:

- Full text search is supported only for SQL Server-based cases.
- Case records must be indexed prior to searching. For more information on indexing see Full Text Indexing.

You can also use the Query Builder to export the case dictionary.

## To run a full text search

- 1. Start the Query Builder. Do one of the following:
  - From the main window, on the **Tools** menu click **Search Records**.

Or

- On the ribbon, click the **Search Records** button ( $^{\infty}$ ).
- 2. The **Database Query Builder** dialog box appears.

Database Que							×
<u>File Edit View</u>							
Advanced Saved	d Filters Search <u>H</u> istory						
Join: Field	Name:		Operator:	Value (text):			
AND 🔻 Docl	ID	-	Equals 🔹				
					(+	Add Condition	
					+)	Insert Before	
					(-	Remove	
					-)	Remove All	
					х		
	ll text search						-
					^	Dictionary	
						Options	
						Load Terms	
					F	ull Text Reports	
						Tag Text Hits	
					V		
Return all Pag	e IDs with query results 🗌 Use NOLOC	K to improve performa	nce (SQL only/read-only	) 🗌 Return parent/at	tachment	groups	
Send Results To:	Grid View (Standalone)				E <u>x</u> ecu	ite <u>C</u> ano	el
o clauses currently	v defined						

- 3. Select **Full text search**. This is only enabled if you have previously created a Full Text Index.
- 4. Add terms to the text box by performing any of the following actions:
  - Type terms separated by spaces directly into the text box.
  - Click **Dictionary**, type a term into the **Lookup** field, click **Add (F3)**, and then click **Done**.
  - Click **Load Terms**, select a text file, select an operator to use, and then click **Accept**.
- 5. Configure full text search options as needed. For more information, see the <u>To</u> <u>configure full text searching</u> section in this topic.
- 6. In the **Send Results To** list, select a utility to receive search results:
  - Batch Process
  - Batch Update
  - Export Utility
  - Grid View (Embedded)
  - Grid View (Standalone)
  - Report Viewer
  - Scan For Errors
- 7. Click **Execute**.

After you run a search it is automatically saved in the **Search History** tab.

## **To configure full-text search options**

The search options defined in the Full Text Search Options dialog box from the Database Query Builder dialog box are saved at the user level and only apply to the full-text searches in the Database Query Builder dialog box. These search options do not apply to search queries in the Full Text Search Options dialog box.

- 1. From the main window, on the **Tools** menu click **Search Records**.
- 2. In the **Database Query Builder** dialog box select **Full text search** check box and then click **Options**.

ull Text Search Options
Stemming Phonic <u>F</u> uzzy 0
Retrieval Thresholds:
Max Files To Retrieve: 0
Abort Search After: 0
Search Syntax:
Results Options: Include hits by wor <u>d</u> in search results
Index Properties <u>A</u> ccept <u>C</u> ancel

The Full Text Search Options dialog box appears.

- 3. Configure full text search options as needed:
- **Stemming** includes records in the result set that contains words with variant endings compared to the search term. For example, the search term depend will return records that contain depend, depends, depending, etc.

- **Phonic** includes records in the result set that contains words that sound similarly to the search term. For example, the search term pear will return records that contain pair, per, pure, etc.
- **Fuzzy** includes records in the result set that contains words with similar spelling as the search term. For example, the search term case, might return records that contain cash, cale, cake, etc. You set the fuzzy value to a number between 1-10, with 1 being the least fuzzy and 10 the most.
- Retrieval thresholds
  - **Max files to retrieve** Sets an upward limit on the number of files to return. In any new case the default maximum number of files to retrieve is unlimited, which appears in the field as **0**.
  - **Abort Search After** Sets an upward limit on the number of files to search. The default value for this field is unlimited, which appears in the field as **0**.
- Search syntax
  - Boolean Supports standard AND/OR connectors between search terms.
  - All Words/Any Words Alternative to using Boolean that implies all AND's and OR's respectively between words.
- **Include hits by word in search results** When enabled, LAW will include a temporary ft\_HitsByWord field in the search results in the standalone grid.

For each document, this field contains the search words that matched each document and the frequency of those words. Search words and their frequency are comma-separated and multiple search words are separated by a hard return character.

4. Click Accept.

## Tagging text hits

You can create a Tag (Boolean) field value and then apply it to query results, by using the Tag Text Hits feature.

This feature can be a quicker alternative to running a search and then having to wait for the search results to populate a grid display, and tagging documents from that interface (if needed), especially when dealing with large amounts of data. The flagged field can later be queried to pull results or used in conjunction with other queries.

## To tag text hits

- 1. From the main window on the **Index** menu click **Modify Fields**.
- 2. Create a tag field or a numeric field. The following list provides considerations for choosing the field type and name:
- Name the field after the search term in some way, for example "contains\_Smith".

- Create a document-level tag (Boolean) field if you want simply to record whether or not the record contains the search term. Records that contain the term are marked Yes, else No.
- Create a numeric index field if you want a count of the number of text hits found in each record.
- 3. After the field is created, on the **Tools** menu click **Search Records**.
- 4. Select **Full text search** check box and then provide search terms.
- 5. Click the **Tag Text Hits** button.

The **Select Target Field** dialog box appears with all user-defined tag and numeric fields listed.

6. Select the field to be used as the target field and then click OK.

After the query has run a message box provides a summary. It lists the number of affected documents, the total number of hits, and the elapsed time.

✓ This feature does not incorporate any database conditions that may be selected when performing the text search. Only full text searching is supported.

## To search by multiple terms

You can search for multiple words that occur in a specified sequence by entering the sequence of words to be searched into the full text search text box.

If the search syntax is set to **Any Words** or **All Words**, then the sequence of words must be wrapped in quotes to prevent the search from inserting AND's or OR's between the words in the sequence.

## **Example searches**

Request description	Matching text	Does not match
Security Code (If using Any Words/All Words syntax, then use: "Security Code".)	"I entered the security code". (Words occur in sequence.)	"To disable security enter the code". (Words occur, but not in sequence.)
Enter * Code (If using Any Words/All Words syntax then use: "Enter * Code".)	"enter unique code" , "enter key code"	"Enter Code"

Note the following about multiple term searching:

• Wildcards can be incorporated into term searches to match all or part of the words in the sequence similar to a single term search with the added restriction that the wildcard occur in sequence.

• Each word in the term is always counted as a hit in the ft\_HitCount column and highlighting view. The search query "Security Code" will return a minimum of two hits (one for each of the two words that comprise the term). Full Text reports count the occurrence of the entire term as one hit, as do counts in the ft\_HitsByWord column which is controlled by the "Include hits by word in search results" Full Text Search Option

## Working with noise words

This topic section describes noise words, their impact on search, and how to edit the list of noise words.

## What are noise words?

Noise words are words that are ignored by the indexer because they occur so commonly that they are of little use in searching content.

## How noise words impact search

The effect of noise words in a search query typically manifests itself when searching for terms or word sequences. The search engine effectively treats a noise word in a search query as a word-level wildcard, matching any word that occurs at that position.

Effectively, a noise word is processed as an "any word" wildcard (\*), so in the above example the search query is processed as: Harold \* Cat.

A single word search query for a noise word will return no records. For example, a search query for the term "because" would yield no results.

## **Examples**

The following table describes examples of how the noise word "The" effects search.

Request description	Matching text	Does not match
The Car (If using Any Words/All Words syntax then use: "The Car")	"Red Car","Blue Car","Fast Car"	
Harold The Cat (If using Any Words/All Words syntax then use: "Harold The Cat")	"Harold my cat"	"Harold My Friend" (Term search, only matches one of the required words in the sequence).

## To edit the noise word list

LAW manages noise words at the application level in a file named noise.dat. This file is located in the DTConfig folder which can be found in the installation path of CloudNine<sup>TM</sup> LAW.

- 1. Use Notepad or some other text editor to open the noise.dat file.
- 2. Add or remove noise words from the list.
- 3. Save the file.
- 4. On the **Tools** menu click **Full Text Index** and then click **Re-Index All Documents**.
- Removal of noise words from noise.dat can result in reduced performance of indexing and search operations. This is because any word removed from the noise list is indexed along with other keywords.

## To view Full Text Reports

The Full Text Search Reports feature can be used to create Full Text Reports based on a single search or multiple search queries and to run multiple text search queries at once to obtain document and hit counts without returning records to the grid. You can also tag search queries and view search results for tagged search queries in the Full Text Search Reports dialog box, as well as calculate the uniqueness of a search query compared to the other selected search queries currently in the Full Text Search Reports dialog box.

## To view a Full Text Report

- 1. On the **Tools** menu click **Search Records**.
- 2. Select **Full text search** check box, and then click the **Full Text Reports** button. The **Full Text Search Reports** dialog box opens.

Full Text Search Reports	×
Search Filter	
Restrict search results to specified tag:	
Search Requests	Run Searches
Item Docs Hits Uniqueness Search Requests	<u>H</u> un scarches
	Search <u>Options</u>
	Import Searches
	import searches
	Export Searches
	Calc. <u>U</u> niqueness
	<u>Save Report</u>
	Tag Text Hits
	Daskum Coarsh Cot
	<u>B</u> ackup Search Set
	Load Search Set
	Accept
Check All         Uncheck All         Reset Counts         Clear All         Delete         Add New	<u>C</u> ancel
No search requests defined	

- 3. Add search queries to the **Full Text Search Reports** dialog box.
- 4. Define the search options.
- 5. To include a search query in the search results, select the check box for the search query.

To exclude a search query from the search results, clear the check box for the search query.

By default, when a search query is added to the **Full Text Search Reports** dialog box, the check box for the search query is selected. To select all check boxes, click the **Check All** button. To clear all check boxes, click the **Uncheck All** button.

- 6. Click the **Run Searches** button to display the **Full Text Search Report** results.
  - **Item.** The ID number assigned to a search query when it is added to the Full Text Search Report dialog box.
  - **Docs.** The total number of documents containing the search query.
  - Hits. The total number of search hits matching the search query.
  - **Uniqueness.** The total number of search hits unique to the search query when comparing the search query to the other selected search queries in the Full Text Search Reports dialog box. The Uniqueness value can help determine the effectiveness of the search query for the case.

By default, the **Uniqueness** column values are not calculated for the selected search queries when you click the **Run Searches** button. The selected search queries must be run before they can be compared for calculating uniqueness.

 To calculate the Uniqueness values for search quests, select the check boxes for the search queries you want to compare, and then click the Calc. Uniqueness button.

The check boxes for two or more search queries must be selected before you can calculate the search query uniqueness values. Whenever a search query check box is cleared, the **Uniqueness** column values for all the search queries is reset to **?**, and the uniqueness will need to be recalculated by clicking the **Calc. Uniqueness** button again. If additional files are added to or removed from the case after calculating uniqueness, you will need to click the **Calc. Uniqueness** button again to refresh the **Uniqueness** column values.

To save the Full Text Search Report values, see <u>To save a Full Text Report</u>.

8. When you are done viewing the results in the **Full Text Search Reports** dialog box, click the **Accept** button.

Clicking the **Accept** button saves your changes and closes the **Full Text Search Results** dialog box.

#### To add search queries to the report

There are two ways to add search queries to the Full Text Search Reports dialog box. Search queries can be manually added individually or search queries can be imported into the dialog box. For more information about importing search queries, see <u>To import search queries into the report</u>.

- 1. On the **Tools** menu click **Search Records**.
- 2. Select **Full text search** check box, and then click the **Full Text Reports** button. The **Full Text Search Reports** dialog box appears.
- 3. Click the **Add New** button. A new record is created in the **Search Requests** list.
- 4. In the **Search Requests** column for the new record, enter the text of the new search query.

#### ■ <u>To define the search options</u>

The search options defined in the Full Text Search Options dialog box from the Full Text Search Reports dialog box are saved at the case level and only apply to the full-text search queries in the Full Text Search Reports dialog box. These search options do not apply to search queries in the Database Query Builder dialog box. All users in the case will have the same search options defined for the search queries in the Full Text Search Options dialog box (accessed by clicking the Search Options button in the Full Text Search Options dialog box).

Anytime the search options are edited and the changes saved in the Full Text Search Options dialog box, the current search results in the Full Text Search Reports dialog box are reset to ?. The search queries in the Full Text Search Reports dialog box need to be rerun to update the search results.

1. In the **Full Text Search Reports** dialog box, click the **Search Options** button.

Clicking the **Search Options** button opens the **Full Text Search Options** dialog box.

Full Text Search Options
Stemming Phonic <u>F</u> uzzy 0
Retrieval Thresholds:
Max Files To Retrieve: 0
Abort Search After: 0
Search Syntax:
Results Options: ✓ Include hits by wor <u>d</u> in search results
Index Properties <u>A</u> ccept <u>C</u> ancel

By default, only the **Boolean** and **Include hits by word in search results** check box are selected.

2. Configure full text search options as needed:

- **Stemming** includes records in the result set that contains words with variant endings compared to the search term. For example, the search term depend will return records that contain depend, depends, depending, etc.
- **Phonic** includes records in the result set that contains words that sound similarly to the search term. For example, the search term pear will return records that contain pair, per, pure, etc.
- **Fuzzy** includes records in the result set that contains words with similar spelling as the search term. For example, the search term case, might return records that contain cash, cale, cake, etc. You set the fuzzy value to a number between 1-10, with 1 being the least fuzzy and 10 the most.
- Retrieval thresholds
  - **Max files to retrieve** Sets an upward limit on the number of files to return. In any new case the default maximum number of files to retrieve is unlimited, which appears in the field as **0**.
  - **Abort Search After** Sets an upward limit on the number of files to search. The default value for this field is unlimited, which appears in the field as **0**.
- Search syntax
  - **Boolean** Supports standard AND/OR connectors between search terms.
  - **All Words** Alternative to using Boolean that implies all ANDs and ORs respectively between words. All of the words in the search query must be present in the record for a record to be retrieved in your search results.
  - **Any Words** Alternative to using Boolean that implies all ANDs and ORs respectively between words. Any of the words in the search query can be located in a record.
- **Include hits by word in search results** When enabled, LAW will include a temporary ft\_HitsByWord field in the search results in the standalone grid. For each document, this field contains the search words that matched each document and the frequency of those words. Search words and their frequency are comma-separated and multiple search words are separated by a hard return character.
- 3. To view the full-text index properties, click the **Index Properties** button.

Clicking the **Index Properties** button opens the **Full Text Index Properties** dialog box. For more information about the Full Text Index Properties, see Full-text Indexing.

) Path	Docs	Words	Obsoletes	Fragmentation	Size (MB)
1 %FTHOME%\FT01	18,870	89,016	0	0	15.44
TOTALS	18,870	89,016	0	0	15.44

- 4. When you are done reviewing the index properties, click the **Done** button, to close the **Full Text Index Properties** dialog box.
- 5. In the **Full Text Search Options** dialog box, click the **Accept** button to save and apply the search option settings.

#### **To import search queries into the report**

In the Full Text Search Reports dialog box, search queries can be created manually or imported from a line-delimited .txt file.

- 1. In the **Full Text Search Reports** dialog box, click the **Import Searches** button. Clicking the **Import Searches** button opens the **Select Input File with Search Terms** dialog box.
- 2. Browse to and select the search query .txt file you want to import, and then click the **Open** button. A message is displayed indicating the number of search queries successfully imported.
- 3. Click **OK** to close the message. The imported search queries are added to the **Search Requests** list in the **Full Text Search Reports** dialog box.
- 4. To view the search results for the imported search queries, click the **Run Searches** button.

## To export search queries from the report

Search queries added to the Full Text Search Report dialog box can be exported to a line-delimited .txt file.

- 1. In the **Full Text Search Reports** dialog box, click the **Export Searches** button. Clicking the **Export Searches** button opens the **Select Output File for Search Terms** dialog box.
- 2. Browse to where you want to save the search query .txt file.
- 3. In **File name** field, enter the file name for the search query .txt file, make sure **Text Files (\*.txt)** is selected in the **Save as type** field, and then click the **Save** button.

A message is displayed indicating the search queries were successfully exported.

4. Click **OK** to close the message. The .txt file containing the exported search queries is created in the directory you selected.

## To tag search queries in the report

Tags can be applied to search queries in the Full Text Search Reports dialog box using the Tag Text Hits feature. After applying tags to a search query in the Full Text Search Reports dialog box, you can restrict search results in the Full Text Report to a specific tag. Before search queries can be tagged, the tag fields you want to apply must be created in CloudNine<sup>™</sup> LAW. For more information, see <u>Creating Tag Fields</u>.

If there are no tag fields created for the case, clicking the Tag Text Hits button generates the following error message:

LAW PreDiscovery	
⚠	Error occurred tagging the specified documents. <error> = No user-defined fields are available for selection (ErrCode=9001, ProcName=LAW32_Shared)</error>
	OK

- 1. In the **Full Text Search Reports** dialog box, select the check boxes for the searc query to which you want to apply a tag.
- 2. Click the **Tag Text Hits** button.

Select Target Field
Available Fields:          ExportNativeFile         Privileged         Produce         ProduceND         OK         Cancel         Tag parent/attachment families         Verage Clear Tag Results

Clicking the **Tag Text Hits** button opens the **Select Target Field** dialog box. The tag fields created for the case are displayed in the **Available Fields** list.

- 3. Click the tag field you want to apply to the selected search queries.
- 4. If you want to apply the tag to document families, select the **Tag parent/attachment families** check box.

By default, the **Tag parent/attachment families** check box is not selected.

If the tag currently selected in the **Select Target Field** dialog box has already been applied to any of the documents in the case, the **Clear Tag Results** check box determines whether the existing tags applied to the documents in the case that match the selected tag are cleared from all documents in the case when the selected search queries run, before applying the tag selected in the **Select Target Field** dialog box to the documents returned in the search results. By default, the **Clear Tag Results** check box is selected.

5. If you want to clear the tag results, leave the **Clear Tag Results** check box selected.

If you do not want to remove the tag currently selected in the **Select Target Field** dialog box from the documents in the case before applying the tag to the documents returned in the search results for the selected search queries, clear the **Clear Tag Results** check box.

6. Click **OK**.

Clicking **OK** applies the selected tag to the selected search queries. When tagging is completed, the **Tag Text Hits Complete** message is displayed. The message

includes the number of documents tagged and the time elapsed for the tagging process.

Tag Text Hits Complete 🛛 🔀							
G	The tagging process was successfully completed.						
~	Docs Tagged: 34 Elapsed Time: 1 sec						
ОК							

7. Click **OK** to close the message.

#### To restrict search results by tag

In the Full Text Search Reports dialog box, you can restrict the search results to a specific tag using the Restrict search results to specific tag check box. The Restrict search results to specific tag check box is enabled if a tag has been applied to documents within one or more search queries in the Full Text Search Reports dialog box.

- 1. In the **Full Text Search Reports** dialog box, select the **Restrict search results to specific tag** check box.
- 2. Click the down arrow button,  $\square$ , in the **Restrict search results to specific tag** list, and then click the tag for which you want to view search results.

The list contains all the tag fields created for the case. When you click a tag in the **Restrict search results to specific tag** list, the **Search Requests** list is updated and only displays the search results for the documents in the search queries that are tagged with selected tag field.

Full Text Search Reports	×
Search Filter	
Restrict search results to specified tag:	
Search Requests	Run Searches
Item Docs Hits Uniqueness Search Requests	Run Searches
✓ 1 34 59 ? dickson	
2 0 0 ? skiling	Search Options
■ 3 0 0 ? ken*lay	
	Import Searches
	Export Searches
	Calc. Uniqueness
	Save Report
	Tag Text Hits
	Accept
Check All Uncheck All Reset Counts Clear All Delete Add New	Cancel
3 search requests, 3 items selected	

3. To display the search results for all search query in the **Full Text Search Reports** dialog box, regardless of the tag selected in the **Restrict search results to specific tag** list, clear the **Restrict search results to specific tag** check box.

If you calculated the uniqueness for the search query, selecting or clearing the **Restrict search results to specific tag** check box resets all values in the Uniqueness column to ?. The uniqueness will need to be recalculated.

Ful	Full Text Search Reports									
	earch Fi									
	Restri	ict search r	results to spe	cified tag	Produce				×	
S	C Search Requests						Dur Country			
		Item	Docs	Hits	Uniqueness	Search Requests				Run Searches
	<ul> <li>✓</li> </ul>	1	34	59		dickson				
	<ul> <li>✓</li> </ul>	2	283	382		skilling				Search Options
		3	271	656	?	ken* lay				
										Import Searches
										Export Searches
										Calc. Uniqueness
										Save Report
										Tag Text Hits
				_						Accept
	Cheo	k All	Uncheck A		Reset 0	Clear All		Delete	Add New	Cancel
3 se	3 search requests, 3 items selected									

## To save a Full Text Report

Full Text Reports can be saved as an .htm, html, or Microsoft Excel .xls or .xlsx file. Before a Full Text Report can be saved to file, the search queries in the Full Text Search Reports dialog box must be run.

If you save the Full Text Report when the Restrict search results to specified tag check box is selected, the Full Text Report will display the search results for search queries tagged with tag selected in the Restrict search results to specified tag list.

1. In the Full Text Search Reports dialog box, click the Save Report button.

Clicking the **Save Report** button opens the **Save Report As** dialog box. Full Text Reports can be saved as an .htm, html, or Microsoft Excel .xls or .xlsx file

Save Report As							? 🗙
Save in:	🚞 Reports			<b>~</b> (	) 🧔 (	≫	
My Recent Documents							
Desktop							
My Documents							
My Computer							
	File name:	Full Text Report	.htm			*	Save
My Network	Save as type:	HTML Files (*.ht	tm; *.html)			~	Cancel

2. Browse to where you want to save the report, and in the **File name** field, type the report file name.

The Save as type field defaults to HTML Files (\*.htm; \*.html).

3. In the Save as Type list, click HTML Files (\*.htm; \*.html) or Excel Files (\*.xls; \*.xlsx), and then click the Save button.

The Full Text Report is created in the directory you selected.

	AW\Reports\Full Text Report.htm		•	🦻 🗙 🚼 o	Google		
le Edit View Fav	vorites Tools Help						
Favorites 🏾 🏉 Ful	I Text Report - Enron Sample Case			🟠 • 🔊 ·	- 🖶 -	Page 👻 Safety	y 🕶 Tools 👻 🕡
		Custodian	Summary				
Custodian			# Docs	# Docs (family)	Total Hits	Size (GB)	Family Size (GB)
EDDEnronPST			320	530	1,097	0.03	0.04
TOTALS			320	530	1,097	0.03	0.04
Search Request	t	# Docs	# Unique	# Docs	Total Hits	Size (GB)	Family Size
	t		Docs	(family)			(GB)
dickson	t	34	Docs 34	(family) 84	59	0.00	(GB) 0.01
tickson ken* lay	t		Docs	(family)			(GB)
Search Request dickson ken* lay skilling		34 271	<b>Docs</b> 34 3 15	(family) 84 432 443	59 656 382	0.00	(GB) 0.01 0.03
dickson ken* lay		34 271 283	<b>Docs</b> 34 3 15	(family) 84 432 443	59 656 382	0.00	(GB) 0.01 0.03
dickson ken* lay skilling Custodian	Search Re	34 271 283	Docs 34 3 15 mary (by C # Docs	(family) 84 432 443 Custodian # Docs	59 656 382	0.00 0.02 0.02	(GB) 0.01 0.03 0.03
dickson ken* lay skilling	Search Re	34 271 283	34 3 15 mary (by C	(family) 84 432 443 Custodian # Docs	59 656 382	0.00 0.02 0.02	(GB) 0.01 0.03 0.03
dickson ken* lay skilling Custodian	Search Re Search Request	34 271 283	Docs 34 3 15 mary (by C # Docs	(family) 84 432 443 <b>Custodia</b> # Docs (family)	59 656 382 1) Total Hits	0.00 0.02 0.02 Size (GB)	(GB) 0.01 0.03 0.03 Family Size (GB)

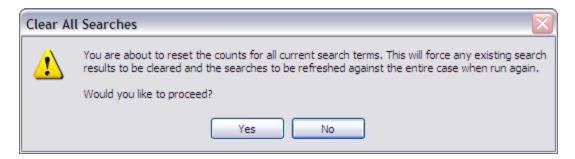
The **Size (GB)** and **Family Size (GB)** columns are not populated in the Full Text Report for cases that are not enabled for electronic discovery due to the absence of the Filesize field in cases not enabled for electronic discovery.

### **To clear the current search results**

The existing search results for the current search queries in the Full Text Search Reports dialog box can be cleared. Then next time you run the search queries, the search queries will be run against the entire case.

1. In the **Full Text Search Reports** dialog box, click the **Reset Counts** button.

Clicking the **Reset Counts** button opens the **Clear All Searches** message.



2. Click **Yes** to clear the search results and close the message.

All search query values in the **Docs**, **Hits**, and **Uniqueness** columns are reset to **?**.

#### ■ <u>To delete a search query</u>

In the Full Text Search Reports dialog box you can delete individual search queries or delete all search queries at one time.

### To delete an individual search query:

- 1. On the **Tools** menu click **Search Records**.
- Select Full text search check box, and then click the Full Text Reports button.

The Full Text Search Reports dialog box opens.

3. Select the row for the search query you want to delete.

To select a row, click the box to the left of the search query check box.

C <sup>s</sup>	Search Re	equests -					
		Item	Docs	Hits	Uniqueness	Search Requests	
	<ul> <li>Image: A start of the start of</li></ul>	1	34	59	?	dickson	
	NI	2	283	382	?	skilling	
	- V3 💽	3	271	656	?	ken* lay	

- 4. Click the **Delete** button.
- 5. Click **Yes** when asked, *You are about to delete* [*number*] *search request(s). Would you like to proceed*?.

Clicking **Yes** deletes the search query from the **Full Text Search Reports** dialog box.

### To delete all search queries:

- 1. On the **Tools** menu click **Search Records**.
- 2. Select **Full text search** check box, and then click the **Full Text Reports** button.

The Full Text Search Reports dialog box opens.

- 3. Click the **Clear All** button.
- 4. Click **Yes** when asked, *You are about to clear all current search terms and any corresponding results. Would you like to proceed?*.

Clicking **Yes** deletes all the search queries and search results from the **Full Text Search Reports** dialog box.

### Backup Search Set - Version 6.18+

In the Full Text Search Reports dialog box in Version 6.18+, you can backup search queries and name that series of searches to be loaded at a later time.

- 1. On the **Tools** menu click **Search Records**.
- 2. Select **Full text search** check box, and then click the **Full Text Reports** button.

The Full Text Search Reports dialog box opens.

r <b>ch Filter</b> Restrict searc	h results to specified t	tag:					
rch Requests							Run Searches
Item	Docs Hit	ts Uniqueness Sear	ch Requests				Search Options
							Import Searche
							Export Searche
							Calc. Uniquene
							Save Report
							Tag Text Hits.
							Backup Search
							Load Search S
							Accept
Check All	Uncheck All	Reset	Counts Clear	All	Delete	Add New	Cancel

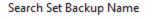
Version 6.18+

- 3. Then Import Search terms and/or Add New Search terms
- 4. When your list of terms has been added to the Search Request, then select **Run Searches**.

stric	rt search i	esults to spec	ified tag:				~
		courto to oper	incu tugi				
1 Re	equests	Docs	Hits	Uniqueness	Search Requests		Run Searc
7	1	273	783		yellow		
5	2	8,038	16,645		Green		Search Opt
	3	682	1,897		blue		
$\checkmark$	4	483	2,337	?	red	 	 
							Import Sear
							Export Sear
							Export Sedi
							Calc. Uniqu
							Save Repo
							Tag Text H
							Backup Sear
							Load Searc
							Accept

Version 6.18+

5. Selecting **Backup Search Set**, opens the **Search Set Backup Name** window.



Backup Name:	
	OK Cancel

- 6. Enter a name that describes or summarizes the searches into the box for Backup Name.
- 7. Select **OK**, to close the **Search Set Backup Name** window and save all of the searches under the chosen Backup Name.
- 8. All of the searches are backed up and the Search Requests section of the Full Text Reports resets as if there are no search terms.

Load Search Set - Version 6.18+

In the Full Text Search Reports dialog box in Version 6.18+, you can backup search queries and name that series of searches to be loaded at a later time.

- 1. On the **Tools** menu click **Search Records**.
- 2. Select **Full text search** check box, and then click the **Full Text Reports** button.
- 3. The Full Text Search Reports dialog box opens.

Full Text Search Reports	×
Search Filter	
Restrict search results to specified tag:	$\sim$
Search Requests	Run Searches
Item Docs Hits Uniqueness Search Requests	
	Search Options
	Import Searches
	Export Searches
	Calc. Uniqueness
	Save Report
	Tag Text Hits
	Backup Search Set
	Load Search Set
	Accept
Check All Uncheck All Reset Counts Clear All Delete Add N	lew Cancel
No search requests defined	

Version 6.18+

- 4. Select Load Search Set.
- 5. The Select Search Set window will open in a new window.

Display Name	Backup By	Backup At	Machine	IP	Status
Names	woja	5/23/2018 4:37:42 PM	7009:	10.209	
Government	woja	5/23/2018 4:36:42 PM	7009	10.209	

- 6. Select Search Set contains important information for your reference.
  - Display Name: This is the name given to the Backup Search Set.
  - Backup By: This is the login of the user who created the Backup Search Set.
  - Backup At: This is the date and time that the user created the Backup Search Set.
  - Machine: This is the computer name that was used to create the Backup Search Set.
  - IP : This is the IP address of the computer that was used to create the Backup Search Set.
  - Status: Shows if the Search Set is currently loaded into Full Text Search Reports.
    - Active: This is the current search set that is displayed in Full Text Search Reports.
    - Empty Status: There is not a search set displayed in Full Text Search Reports.

Item       Docs       Hits       Uniqueness       Search Requests         1       273       783       ? yelow       Search Requests         2       8,038       16,645       0       Green       Search Options.         3       662       1,897       0       blue       Search Options.         4       483       2,337       ? red       Tomost       Search Options.         t Search Set       Search Set       Status       Search Set         Display Name       Backup By       Backup At       Machine       IP       Status         Names       edgewoja       5/23/2018       5:14:30 PM       LNGRDUL-7009100       10.209.2.98       Active         Names       edgewoja       5/23/2018       5:40:47 PM       LNGRDUL-7009100       10.209.2.98       Active         Government       edgewoja       5/23/2018       4:36:42 PM       LNGRDUL-7009100       10.209.2.98       Active         Nath       edgewoja       5/23/2018       4:36:42 PM       LNGRDUL-7009100       10.209.2.98       Active         Nath       edgewoja       5/23/2018       4:36:42 PM       LNGRDUL-7009100       10.209.2.98       Active         search S       Search S       Se
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The loaded search set saves the Docs & Hits for the Search Requests from the time that the Search Set was created. If additional documents are added since the creation date then you will need to **Run Searches** again.

- 7. Select the Display name for the set of searches that you would like to load from the list.
- 8. The row will be highlighted and the name of the selected search set will also be displayed in the lower left corner.
- 9. Select OK.
- 10. The Load Search Set window will close and the Full Text Search Reports window will be updated with the search set and the Search Set Name in the top.

		rts [Names]				
arch Fil	lter					
Restri	ct search r	esults to spe	cified tag	:		$\sim$
arch Re	equests Item	Docs	Hits	Uniqueness	earch Requests	Run Searche
	1	39	192		eorge	
	2	131	809		eter	Search Option
	3	205	580		lary	
	4	116	190	0	teve	
$\checkmark$	5	2	2	?	lice	Import Search
						Export Searche
						Calc. Uniquen
						Save Report.
						Tag Text Hits
						Backup Search
						Load Search S
						Accept
Chec	k All	Uncheck A	I	Re	et Counts Clear All	Delete Add New Cancel

11. The loaded search set can then have the hits updated with **Run Searches** or you can **Add New** search requests.

### Changing a Search Set

Changes can be made to a saved search set.

Load a saved search set.

ch Re		esults to spec				
cn ke						
	Item	Docs	Hits	Uniqueness	earch Requests	Run Search
	1	273	783		ellow	
П	2	8,038	16,645		reen	Search Optio
	3	682	1,897	0	ue	
$\checkmark$	4	483	2,337	?	d	
						Import Searc
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						Load Search

The name of the search set is displayed in [] to the right of Full Text Search Reports.

The loaded search set can then have the search set hits updated by selecting **Run Searches**.

- Or you can Add New search requests to the search set.
- Or you can Delete a search request from the search set.
- Or you can Import Searches into the search set.

Any changes to the search set will be saved when selecting **Backup Search** or **Load Search Set**.

Once the changes have been saved there is not an option to revert to a previously saved version.

#### To save hits to a memo field

After you run a full text search in a standalone grid, you can save the search results in a user-defined, document-level memo field.

### To save results to a memo field

- 1. Run a full text search.
- 2. When the results display in the grid on the **Tools** menu click **Persist Text Hits**.
- 3. In the **Persist Text Hits** dialog box click the **Target field for preserving text hits** drop-down list and then either:
  - Select an existing memo field.

Or

- Select **<Create New Field...>** and then follow prompts to create a new memo field.
- 4. Click Accept.

If hits already existed in the field, the new, unique values will be appended, with each hit separated by a semi-colon.

If a term, or multi-word, search is executed, each word of that term is treated as a separate search term.

### To export the dictionary

The case dictionary can be exported from the Fulltext Dictionary dialog box. The dictionary export creates a UCS-2 tab-delimited CSV file. The CSV file contains a listing of every word in the case's full-text index, and includes the document and hit count for each word. The dictionary export supports words containing Unicode characters.

- Attempting to use a text editor or Excel to open a dictionary that was exported as a Comma Separated Value (CSV) file could cause the text editor or Excel to stop responding. This is because exporting the dictionary as a CSV can create very large files.
- 1. From the main window, on the **Tools** menu click **Search Records**.

Clicking Search Records opens the Database Query Builder dialog box .

© Database Query Builder		
Advanced Saved Filters Search Histo		/alue (text):
		(- Remove All X
Full text search		Dictionary Options
Return all Page IDs with query results	Use NOLOCK to improve performance (SQL only/read-only)	Full Text Reports Tag Text Hits
Send Results To: Grid View (Standalone) No clauses currently defined		Execute Cancel

2. On the **Advanced** tab, click the **Dictionary** button.

Clicking the **Dictionary** button opens the **Fulltext Dictionary** dialog box.

ookup: custodian			
Word	Doc Count	Hit Count	
curtailed	8	112	
curtailment	26	72	
curtailments	10	42	
curtains	1	1	
curtainwall	1	2	
curtis	5	5	
curtis@eprime	4	4	
curve	35	193	
curves	12	60	
tushaw	1	1	
custodian	4	5	F
ND 🖌 Add (F3)	Options	Export	Done

3. Click the **Export** button.

Select Output f	for Dictionary Export	? 🔀
Save in:	🔁 LAW 💽 🧭 📂 🛄 -	
My Recent Documents	Corporate_Image Enron External_Deduplication_Dbs Reports	
Desktop		
My Documents		
My Computer		
ing comparer	File name: case dictionary	Save
My Network	Save as type: Tab-delimited files (*.csv)	Cancel

Clicking the **Export** button opens the **Select Output for Dictionary Export** dialog box.

- 4. Browse to where you want to save the dictionary .csv file
- 5. In the **File name** field, type the file name, and then click **Save**.

Clicking **Save** generates the dictionary .csv file and opens the **Open Output File Now** message.

Open Output File Now				
2	The dictionary listing was successfully exported. Total Words = 59,428			
	Would you like to open the file now?			
	Yes No			

6. Click **Yes** to view the dictionary .csv file or click **No** to return to the **Fulltext Dictionary** dialog box.

### **Saved Searches and Search History**

The Query Builder utility provides several options for reusing previously created searches. You can:

- Save searches.
- Run previously saved searches.
- Run searches from the search history.
- Edit searches that are saved stored in history.

To start the Query Builder from the **Tools** menu click **Search Records**, or click **Search Records** on the Toolbar. The **Database Query Builder** displays.

Eile Edit View Advanced Saved Filters Search History	Databas	e Query Builder						$\times$
Join: Field Name: Operator: Value (text): AND  DocID	<u>F</u> ile <u>E</u> dit	View						
AND  DocID  Equals  (+ Add Condition +) Insert Before  C Remove -) Remove All X  Dictionary Options  Load Terms Full Text Reports Tag Text Hits	Advanced	Saved Filters Search History						
AND  DoclD  Equals  (+ Add Condition +) Insert Before (- Remove -) Remove All X  AND Eull text search  Dictionary Options Load Terms Full Text Reports Tag Text Hits	( Inter	Field Newson		Orienter	Malina (hand)			
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Return all Page IDs with query results Use NOLOCK to improve performance (SQL only/read-only) Return parent/attachment groups						~	lag lext Hits	9
Return all Page IDs with query results Use NOLOCK to improve performance (SQL only/read-only) Return parent/attachment groups			100%	(00)				
	Keturn a	all Page IDs with query results Use NO	LUCK to improve performan	ce (SQL only/read-only)	Keturn parent/att	achment g	roups	
Send Results To: Grid View (Standalone)	Send Resul	ts To: Grid View (Standalone)				Execut	e Cano	el
lo clauses currently defined								

# To Save a Search

- 1. From the **Database Query Builder**, create a query. For more information on creating queries using fields, see <u>Creating Queries</u>. For more information on creating queries using full text, or fields combined with full text, see <u>Full Text Searching</u>.
- 2. With the query open, on the **File** menu, click **Save**.

- 3. In the **Save As** dialog box, select a storage level for the search. This selection determines who will be able to find the search to run it later.
  - User (Available to only you)
  - Shared (Available to all users in this case)
  - Global (Available to all users across cases)
- 4. Type a name and a description for the search and then click **OK**. The search will appear in the **Saved Filters** tab.

# To Run/Edit a Saved Search

- 1. In the **Database Query Builder**, click the **Saved Filters** tab. Previously saved searches are listed.
- 2. If necessary, select a **Storage Level/Scope**. This setting can apply a filter to show searches by level of availability:
  - All Available Views. The default. Shows all searches available to you at any level.
  - User (Available to only you). Shows only searches that are visible to your profile.
  - Shared (Available to all users in this case). Shows searches that any user of this case can use.
  - Global (Available to all users across cases). Shows searches that can be run by any user across all cases.
- 3. Right-click on a search request and click **Open**, or double-click one of the searches in the list. The **Advanced** tab displays and the selected query is open.
- 4. Modify the query if needed.
- 5. In the Send Results To list, select a utility to receive the search results:
  - Batch Process
  - Batch Update
  - Export Utility
  - Grid View (Embedded)
  - Grid View (Standalone)
  - Report Viewer
- 6. Save the query using one of these methods:
  - On the **File** menu, click **Save**. Select a storage level, type a name and a description, and then click **Accept**.
  - Run the query. Click **Execute**.

After you run a search it is automatically saved in the **Search History** tab.

# To Run/Edit a Search from Search History

- 1. In the **Database Query Builder**, click the **Search History** tab. Previously run searches are listed.
- 2. Right-click on a previous search request and click **Open**, or double-click one of the searches in the list. The **Advanced** tab displays and the selected query is open.
- 3. Modify the query if needed.
- 4. In the Send Results To list, select a utility to receive the search results:
  - Batch Process
  - Batch Update
  - Export Utility
  - Grid View (Embedded)
  - Grid View (Standalone)
  - Report Viewer
- 5. Save the query using one of these methods:
  - On the **File** menu, click **Save**. Select a storage level, type a name and a description, and then click **Accept**.
  - Run the query. Click **Execute**.

After you run a search it is automatically saved in the **Search History** tab.

# To Edit the Default Save Path for Queries and Profiles

1. On the **Tools** menu click **Options** and then select the **Preferences** tab.

Options
Imaging Indexing Notifications Numbering OCR Preferences
Add all new list field values to list on update
Allow selection of multiple list items
Separator character ;
Auto-advance after updating a document
Calculate total pages in batch/export dialogs
Enable SQL Server/SQL Express support
Link to source files in place when importing load files
Prompt to continue scanning when feeder is empty
Refresh duplicate status after deleting records
Send query results to grid on main form by default
Start the Management Console on Windows startup
✓ Notify if new version available
Path for global profiles, grid views, and filters:
C:\Program Files (x86)\LAW50\Shared\ Browse
<u>O</u> K <u>Cancel</u>

### 2. Click the **Browse** button for the **Path for global profiles, grid views, and filters** field.

- 3. Select a new path for storing queries/profiles.
- ☑ By default, user and shared queries are stored in the case folder structure under the \$UserData folder. Global queries are saved by default to the <application path>\Shared folder.
- If you modify the save path for queries/profiles, and you have existing queries/profiles already saved that are global, you must move those previously saved items from the default folder to your newly specified path.

## **Search Operators**

Search operators allow you to formulate or write your own advanced queries to garner stronger search results from your case records. Once you learn to use search operators, you can advance to typing complex searches that will help you locate information that might otherwise takes hours of review to uncover.

Types of Search Operators in LAW:

- Document Level (Boolean) Boolean operators are based on the binary logic used in computers today, producing strict true or false results. In CloudNine<sup>™</sup> LAW, Boolean operators search at the document level. Boolean operators used in LAW include AND, OR, and AND NOT.
- Word Level (Proximity) Proximity operators search at the word level and are useful when looking for content that appears in records either in direct succession or adjacent order, or in close succession to each other within a specified range. This number refers to the maximum number of intervening indexed words.
- Character level (Wildcards) Wildcard operators are symbols you can use as a substitute for characters or series of characters in a search term, creating a broader search with stronger results. Using wildcard characters helps you locate:
  - $_{\odot}$  Variations on a root word
  - $\circ$  Possible misspellings of a name or word
  - $\circ$  Words or names that might include punctuation (apostrophes)

Searching in LAW is not case sensitive, so you do not have to enter all caps when typing in operators. You should type spaces between search terms and the operator (LayK AND LangW), except when searching with characters or using symbols and punctuation.

# **Search Operators**

Search Operators		
Operator	Query	Results
DOCUMENT LEVEL		
AND contains both words	lay AND lang	Finds all records with both the words: lay and lang
OR contains either word	lay OR lang	Finds all records with either lay or lang, or both
AND NOT contains first word, but not second	lay AND NOT lang	Finds all records with lay, but not lang

Search Operators		
Operator	Query	Results
WORD LEVEL		
w/5	lay w/5 lang	Finds lay within five words of lang
not w/12	lay not w/12 lang	Finds lay where it is not within 12 words of lang
w/5 xfirstword	lay w/5 xfirstword	Finds lay when it occurs in the first five words of a document
w/5 xlastword	lay w/5 xlastword	Finds lay when it occurs in the last five words of a document
LIKE	LIKE deposition	Finds synonyms from the thesaurus for the search term specified; might locate testimony
% performs a fuzzy search	Phil%	<ul> <li>Finds Phil, Philip, and Phillip</li> <li>* Fuzzy searching finds words even if they are misspelled. The position of the % character determines how many letters at the start of the word must match exactly. For example: ba%nana must begin with ba and have at most one difference between it and banana. The query: b%%anana finds words that begin with b and have at most two differences between it and banana.</li> <li>For more information, see Fuzzy Searching.</li> </ul>
# performs a phonic search	#Smith	Finds words that sounds alike, such as Smith and Smythe For more information, see <u>Phonic</u> <u>Searching</u> .
~ stemming at the end of a word finds grammatical variations of a word	manage~ apply~	Finds manager and management Finds applies, applied, applying For more information, see <u>Stemming</u> .
CHARACTER LEVEL		

# Search Operators

Search Operators		
Operator	Query	Results
? represents any character in its place in the character sequence	wom?n ??99 10:??	Finds the following: woman, women Finds all dates in the year 1999 Finds all timeframes of 10:00 o'clock (a.m. or p.m.), i.e. 10:00, 10:42
= matches any single digit	=55 =12	Finds all records that contain the number 55 Finds dates with the number 12, such as 12/01/2001 and 08/12/2005
* matches multiple characters	Phil*	Finds Phil, Philip
## regular expression	"##app.*ie"	Finds apple pie Finds search terms that includes a combination of characters. A regular expression included in a search query must be in double quotes and must begin with ##. For more information, see <u>Regular</u> <u>Expressions</u> .
NUMERIC		
< less than	< 50 Florida < 32803	Finds numbers less than 50 Finds Florida followed by a number less than 32803
> greater than	> 50	Finds numbers greater than 50
<= less than or equal to	<=50	Finds numbers less than or equal to 50
>= greater than or equal to	>=50	Finds numbers greater than or equal to 50
= equal to	=50	Finds the number 50

Search Operators				
Operator		Query	Results	
<x and="">x to</x>	not equal	<50 and >50	Finds all numbers except 50	
~~ range	numeric	10 ~~ 20	Finds any numbers between the two numbers, such as between 10 and 20 For more information, see <u>Numeric Range</u> <u>Searching</u> .	
то		10 TO 20	Finds numbers in text within the specified range * The TO operator requires numeric text before and after the operator.	

# Coding

Coding is the process of marking a document with data. Coding can be used in queries to sort or filter documents according to criteria you specify.

# **Document-Level Coding**

Document-level coding is a way to track information about records to aid in retrieval. This data is stored in the index fields, which are typically created when setting up the case. Information that applies to the entire document is considered document-level and can be displayed on the Index display on the main form.

User defined page-level fields can also be displayed in the Index display, but are not editable. Page-level fields created by users can only be edited using the <u>Import Tag List</u> and <u>Auto-Numbering</u> features.

### To edit an index field for a document

1. Select the document in the document list.

🖹 Index 🔚 Grid View						
EMail_Subject						<u>^</u>
From						
То						0
сс						0
BCC						^
Attach						×
DateSent						~
TimeSent						
DocumentDetails						
DocumentValidated <no></no>	N 1					· _
<no></no>	6					· ·
Profile: <default></default>	•				opour	⊆rcar
Profile: <default> <no>        OmegaApr2020</no></default>	ItemNo	ImgExt	Pages	Page Range	DocID	DocExt
✓ Profile: <default> <no>        ✓ OmegaApr2020       ☑ CustodianA</no></default>	ItemNo	TIF	10	Page Range	DocID Omega00005144	DocExt PDF
✓ Profile: <default> <yes> ✓ OmegaApr2020 ✓ CustodianA ✓ A ✓ jeremy 10</yes></default>	ItemNo	TIF TIF	10 63	Page Range	DocID Omega00005144 Omega00005145	DocExt PDF PDF
✓ Profile: <default> <yes> ✓ OmegaApr2020 ✓ CustodianA ✓ A ✓ jeremy 10 ✓ Archives</yes></default>	ItemNo <b>3</b> 0001 <b>3</b> 0002 <b>3</b> 0003	TIF TIF TIF	10 63 39	Page Range	DocID Omega00005144 Omega00005145 Omega00005146	DocExt PDF PDF PDF
Profile: <default> <ves> OmegaApr2020 CustodianA A jeremy 10 jeremy 10</ves></default>	ItemNo	TIF TIF	10 63	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147	DocExt PDF PDF
✓ Profile: <default> <yes> ✓ OmegaApr2020 ✓ CustodianA ✓ A ✓ jeremy 10 ✓ Archives</yes></default>	ItemNo <b>3</b> 0001 <b>3</b> 0002 <b>3</b> 0003	TIF TIF TIF TIF	10 63 39 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146	DocExt PDF PDF PDF JPG
Profile: <default> <yes> OmegaApr2020 CustodianA A jeremy 10 fermy 10 CustodianB</yes></default>	ItemNo 0001 0002 0003 0004 0005	TIF TIF TIF TIF TIF	10 63 39 1 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147 Omega00005148	DocExt PDF PDF PDF JPG JPG
Profile: <default> <ves> OmegaApr2020 CustodianA A jeremy 10 CustodianB E StockianB E Lhendrickson-s_000 CustodianC</ves></default>	ItemNo 0001 0002 0003 0004 0005	TIF TIF TIF TIF TIF	10 63 39 1 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147 Omega00005148	DocExt PDF PDF PDF JPG JPG
Profile: <default> OmegaApr2020 CustodianA Image: A constraints Image: A constraint</default>	ItemNo 0001 0002 0003 0004 0005	TIF TIF TIF TIF TIF	10 63 39 1 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147 Omega00005148	DocExt PDF PDF PDF JPG JPG
<ul> <li></li> <li>Profile: <default> <li>OmegaApr2020     <li>CustodianA     <li>A     <li>jeremy 10     <li>Archives     <li>jeremy 10     <li>CustodianB     <li>B     <li>I_hendrickson-s_000     <li>CustodianC     <li>C     <li>Outlook Data File     </li> </li></li></li></li></li></li></li></li></li></li></li></default></li></ul>	ItemNo 0001 0002 0003 0004 0005	TIF TIF TIF TIF TIF	10 63 39 1 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147 Omega00005148	DocExt PDF PDF PDF JPG JPG
Profile: <default> OmegaApr2020 CustodianA Image: A constraints Image: A constraint</default>	ItemNo 0001 0002 0003 0004 0005	TIF TIF TIF TIF TIF	10 63 39 1 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147 Omega00005148	DocExt PDF PDF PDF JPG JPG
<ul> <li>No&gt;</li> <li>Profile: <default></default></li> <li>OmegaApr2020</li> <li>CustodianA</li> <li>A</li> <li>Jeremy 10</li> <li>Archives</li> <li>jeremy 10</li> <li>CustodianB</li> <li>B</li> <li>Z_hendrickson-s_000</li> <li>CustodianC</li> <li>C</li> <li>Outlook Data File</li> <li>CustodianD</li> </ul>	ItemNo 0001 0002 0003 0004 0005	TIF TIF TIF TIF TIF	10 63 39 1 1	Page Range	DocID Omega00005144 Omega00005145 Omega00005146 Omega00005147 Omega00005148	DocExt PDF PDF PDF JPG JPG

- 2. In the **Index** area scroll to the field you want to use for coding.
- 3. Select **<Yes>** or **<No>**.
- 4. Click Update.

The values are validated based on the field types. If the values pass validation they are saved. If any values violate the rules for the field the update operation generates an error message and cancels. For example, the update would cancel if you attempted to load: duplicate values into a field requiring unique values, or a list of names into a numerical field.

### To improve coding efficiency

CloudNine<sup>TM</sup> LAW provides the following two options to save time for users who are coding large batches of documents. When combined these options can help reduce the number of keystrokes and mouse actions needed to code.

Option and description	S	teps to configure
Auto-Advance	1.	On the <b>Tools</b> menu click <b>Options</b> .
After updating a document the next document is loaded automatically.	2.	Click the <b>Preferences</b> tab.
When enabled you do not need to press the TAB or the DOWN ARROW key, or switch to the mouse each time you need to move to the next document.	3.	Select <b>Auto-advance after updating a</b> <b>document</b> and then click OK.
Default Field	1.	On the Index menu click Default Field.
Sets the initial focus on a specific field whenever a document is selected. The	2.	Select the field name.
default field is useful when coding large batches of documents.		The default field is denoted by a check mark.
This eliminates the need to tab around or use the mouse to set the focus back to the index fields.		• To disable the default field setting, simply select the same field again.
Add list items automatically	1.	On the <b>Tools</b> menu click <b>Options</b> .
When enabled, after a list field is updated with a value, the value is added to the	2.	Click the <b>Preferences</b> tab.
		Select Add all new list field values to list on update, and then click OK.
<b>Update multiple documents</b> LAW can update multiple documents with the same values. To update fields for		Select all documents to be updated in the document list by using the CTRL key, the SHIFT key, or by pressing CTRL+A.
multiple documents, See Batch Updating for additional information.	1.	Type common values in chosen fields.
	2.	Click <b>Update</b> .
		If the <b><update></update></b> button is clicked while multiple documents are selected, the <b>Batch Update</b> dialog box appears allowing you to select only those fields to be updated.
Select multiple list items when updating a single document	1.	On the <b>Tools</b> menu click <b>Options</b> .
		Click the <b>Preferences</b> tab.
required to select list items.	3.	Select Allow selection of multiple list items, and then click OK.

### Numbering Documents/Pages

You can apply numbers to documents or pages. Differences between document-level and page-level coding are described as follows:

- **Document level.** A document-level field applies a numeric or alphanumeric field value to documents that you specify. Typically, document-level numbering is used to uniquely identify documents. It is also used to apply categories to documents.
- **Page level.** A page-level field applies a value to the pages that might exist within documents. The most commonly used page-level field is **Page ID**. You typically use page-level numbering to uniquely identify pages across all documents in a case.

Note the following facts that apply specifically to numbering pages:

- When the Page ID field is numbered, CloudNine<sup>™</sup> LAW will automatically update the **BegDoc#** and **EndDoc#** fields to match those values. Other user-defined page-level fields may be numbered as well.
- In an Access case, with the exception of blanks, each **Page ID** must be unique.
- SQL and ADS cases allow duplicate page IDs.
- If duplicates are encountered during any of the numbering processes, either you will receive an error, or LAW will modify the **Page ID**s by adding a "-DUP1", "-DUP2", etc. to the end of them.

### To configure numbering of documents and pages

1. From the main window, on the **Tools** menu, click **Options**.

Or

- From the **Batch Processing** tool, click **Options**, click **OCR**.
- 2. Click the **Numbering** tab.
- 3. Configure numbering options. These options are described as follows:

Option	Description
Use document/pa ge level separator for Page IDs	Specifies a character to use to separate PageIDs. The default is a period.
Use alpha- numeric Bates numbering	Adds a Bates number ending in either a number or an alphabetical character.

Option	Description
	Bates numbers created with an ending alpha character are incremented as abc001a, abc001b, abc001c, etc.
	This functionality can be disabled by clearing the <b>Use alpha-numeric bates numbering</b> check box.
	<ul> <li>To configure this option, on the Tools menu, click Options and then click the Numbering tab.</li> </ul>
	By disabling this setting, LAW will number the same sequence as follows: <pre>abc001a</pre> , <pre>abc002a</pre> , <pre>abc003a</pre> , etc. This is useful for Bates numbering if the Bates numbers all contain the same alpha suffix.
Use document	Assigns a special suffix to a user-specified document level numbering scheme for parent and attachment records.
level attachment numbering (ie.	When enabled, if the collection to be numbered contains parent and/or attachment record types, the value specified by the user will be appended with a suffix in this format:
АВСОО1[ОО- 01] <b>)</b>	<pre>[<attach number="">-<total #="" attachments="" of="">]</total></attach></pre>
01])	You can access this feature by first creating a document level index field to populate with the desired numbering scheme.
	Records that are not parents or attachments will not receive this suffix.
	This feature only applies to editable document level index fields (as opposed to page level numbering) and applies to the document numbering batch process and the <b>Auto Number</b> feature, which is available under the <b>Edit</b> menu.
Use rolling	Changes the pattern of values to use for numbering.
numeric sections (ie. ABC.001.001	The setting applies to auto-numbering, the batch document numbering process, and both document-level and page-level fields.
.0001)	<b>Section delimiter</b> specifies the character that separates sections in a numbering scheme. The default is a "." (period). For example, the following contains four sections if the period is the chosen delimiter:
	ABC.0001.001.0001
	Rolling will not occur in sections containing non-numeric characters.
Section	Allows you to specify a character to use to separate sections.
delimiter	The default is a period.
Allow page level	Numbers pages sequentially from page to page or from document to document.
numbering to span across sections	Values ending in a numeric suffix are incremented numerically (e.g., ABC001, ABC002 ABC027). Pages ending in an alphabetical suffix

Option	Description
Allow parent/attach ment families to span across sections	<ul> <li>are incremented alphabetically (e.g., ABC001a, ABC001b ABC001z). This is the standard method of numbering records.</li> <li>However, if numbering the documents using a split document/page level scheme (e.g., ABC001-001, ABC001-002, ABC001-003, with the next document starting with ABC002-001), you must select Use document/page level separator for Page IDs and then specify the character to use for the breaks. The default is underscore (_).</li> <li>To configure this option, in the main window, on the Tools menu, click Options and then click Numbering.</li> <li>If this option is enabled, and the break character is detected when switching between documents, the portion of the string before the break character will be incremented by one. The portion after the break character will be reset to one and will use the same number of characters for padding as the previous document.</li> </ul>

### **<u>To number documents or pages</u>**

You use the Auto-Number function to efficiently number or renumber document-level or page-level fields of the current document or all of the documents from the specified page or document to the end of the current folder.

- ✓ You can use the Batch Processing tool to number documents and pages. For more information see <u>Document Numbering</u>.
- 1. On the **Edit** menu, click **Auto-Number**. The **Number Document** dialog box appears.

Number Document
Page Level     Ocument Level
Target Field <page id=""></page>
Starting #
Pages 1 to NA QK
✓ Auto-number to end of folder <u>Cancel</u>

2. Configure numbering options as needed:

- **Page Level** or **Document Level**. The Page Level option will only apply to records with associated images. When using page=level, any records without images are ignored.
- **Target Field**. Select from the list of fields that are available for numbering (i.e., user-defined fields). If Page Level is chosen, then only page-level fields will appear in the list. If Document Level is chosen, then only document-level fields will appear in the list.
- Starting #. Type the starting number to be placed in the selected field.

The default starting number is the value of the **Target Field** for the currently selected page or document.

• Field names. For both document and page level numbering, users may also include a specific field name in the Starting # field using the following notation: &[<field name>]. For example, &[BegDoc#] will number the selected target field with the current BegDoc# values. Multiple fields can also be used in the Starting # field. For example, "&[Page] of &[Pages]" (without the quotes) will result in the text "1 of 20" in the selected target field.

The following fields can be used when numbering with field codes:

**&[Page]** – Current page of the document.

&[Pages] – Total pages in document.

&[Page ID] – Page ID value.

**&[0] - &[00000000000] (12 zeroes)** – Displays an incrementing value starting at 1 and resets at the beginning of each document. The zeroes are used to format the string with zero padding.

**&[<fieldname>]** – Valid for all other LAW fields.

# Production Notes

- The document/page level numbering feature is not supported when used in conjunction with the "++" option on a LAW field.
- If a numbering string ends with "]" it is assumed the string ends with a field. This string will not be automatically incremented by LAW to avoid the confusion of the extra digits in the string. For example, &[Page]\_001 becomes: 1\_001, 2 002, 3 003,... but 001 &[Page] becomes: 001 1, 001 2, 001 3,...
- The field notations explained above can also be used in the document numbering batch process **Starting #** field.
- The field replacement feature is not supported if **Document Level Attachment Numbering** is enabled. To configure this option, on the **Tools** menu, click **Options** and then click the **Numbering** tab.
- If the currently selected record has an associated image, the **Pages** boxes will be populated with the currently selected page and the ending page. If numbering image records, set the starting and ending pages. If the ending page exceeds the page count of the current image, LAW will only number to the end of the current document.

• If the **Auto-number to end of folder** option is selected and the user plans to number a page-level field, the ending page is disabled and LAW will number all the way to the end of the current folder. This feature helps to fix numbering mistakes in a single document that cause subsequent documents in the folder to be incorrectly numbered. If numbering a document-level field, LAW will automatically auto-number to the end of the folder. If only the current document requires updating with a document-level number, edit the field value in the Index display after ensuring the field is visible.

#### Numbering during the scan process

You can automatically number pages as they are scanned. At scan time any gaps in the numbering of originals are removed.

- 1. On the **Index** menu, click **Increment Mode**.
- 2. Select a mode:
  - Automatic. Forces all pages to be numbered based on the previous document. If no previous document exists or the previous document is not numbered, LAW will prompt for a starting number
  - **Manual**. Prompts you for the starting number whenever a new scan is started or a break sheet is detected. This option is helpful if there are frequent gaps in the numbering because it give you a chance to verify the starting page of each new batch. The default Page ID will be the next logical Page ID, which is the same as would be used with automatic numbering. If the page matches, then click OK to begin scanning.
  - **Manual (Auto)**. Does the same thing as the manual mode, except that you are not prompted to enter a starting bates number during a batch when break sheets are used.
  - None. Disables document auto-numbering.

### Document-level attachment numbering example

In this example, a parent document contains two attachments.

- A Starting # of ABC0001 is entered into the Number Document dialog box.
- Use document level attachment numbering option in the Numbering tab is selected.
- The user has created a document level text field named **ProdNo**, which is selected in the Number Document dialog box.

Number Do	ocument					
OPage Level						
Target Field	ProdNo 🔻					
Starting #	ABC000001					
Pages	NA to NA <u>OK</u>					
🖌 Auto-num	ber to end of folder					

The selected document level field, after numbering is complete, will contain the following:

```
ABC000001[00-02] - parent
ABC000001[01-02] - attachment 1
ABC000001[02-02] - attachment 2
```

If an attachment is included in a collection to be numbered without its parent, the parent will also receive a value in the selected field, since the attachment's value relies on the parent's value. Any other attachments of the same record not included in the selected range will not be numbered. If the parent already contained a value, the attachment value will be based on the parent's numbering scheme even when attempting to auto-number. Therefore, the parent's field must be cleared or the entire family range must be selected in order to renumber with a different scheme.

If an attachment range is modified after numbering a family using this feature, the family will need to be renumbered. This will not be done automatically.

Prior to using this feature and exporting from CloudNine<sup>™</sup> LAW, ensure the target application supports the brackets and dashes included in the scheme if utilizing the field containing these values as the image tag or file naming scheme.

#### Modifying the default suffix

An initialization setting in the Law50.ini file is available to modify the default suffix of [<attach number>-<total # of attachments>].

The Law50.ini file is located in the C:\Program Files (x86)\Law50 directory.

If the [Preferences] section already exists, place AttNumSuffix=[00-00] below it.

```
[Preferences]
AttNumSuffix=[00-00]
```

The value shown, [00-00], is the default format. This suffix is used if the initialization setting does not exist or is invalid. The value that is used must contain:

- Opening and closing characters, such as brackets or parentheses. Ensure the two characters are different.
- A separator character, such as a hyphen.
- At least one zero character before and after the separator character. The minimum value is: [0-0]. The number of zeroes before or after the separator pads the value with zeroes. For example, [000-000] displays as [002-009].

This feature is not supported when auto-numbering with field codes included, such as &[Page ID].

#### To number individual pages manually

The auto-numbering functions work well for numbering batches of sequentially numbered pages. However, if frequent gaps in the numbering scheme or intermittent alpha suffixes on pages exist, users may have to manually edit Page IDs.

- 1. Select the page to renumber and then:
  - On the Index menu, click Edit Page ID.
  - Or
  - Press CTRL+E.

The Edit Page ID dialog box appears.

Ed	it	Pa	ae	• II	D
_					

Page ID ABC00001	Update			
	Close			
Auto-number to end of document				

- 2. Type a new Page ID for the selected record.
  - You can use the arrow controls to navigate between pages. Use these controls if you want to manually select individual pages for renumbering, or if you want to designate a starting point for auto-numbering.
  - If necessary, select Auto-number to end of document. This option extends the numbering as specified in the Page ID box from the currently selected page to the end of the document.
- 3. Click **Update**.

The Edit Page ID feature will allow you to change the page number on a page or the entire document. If you need to renumber the document or an entire folder, use the Document Numbering feature.

#### To find a page by PageID

1. Press CTRL+F.

Or

- On the Index menu, click Find Page ID.
- 2. Type the page ID that you want to find and then click OK.

The page with the matching Page ID opens.

✓ To locate groups matching a specific pattern or ranges of Page IDs, use the <u>Query</u> <u>Builder</u>.

#### **Rolling numbering more information**

This example illustrates the use of the rolling numbering feature.

The **Use rolling numeric sections** setting is enabled and the value ABC.0001.001.0001 used to number a document-level index field.

```
ABC.0001.001.9998
ABC.0001.001.9999
ABC.0001.002.0001
ABC.0001.002.0002
```

If the **Use rolling numeric sections** setting is disabled, the values will be incremented as follows (using the above example values):

```
ABC.0001.001.9998
ABC.0001.001.9999
ABC.0001.001.10000
ABC.0001.001.10001
```

Note the following facts about this example:

- By default, when the numbering sequence increments high enough to roll into the next section, the section that rolled will increment back to the value of "1" instead of "0". So 001.999 becomes 002.001 (not 002.000).
- The other settings on the Numbering tab can be used with the rolling numeric sections option. When the document/page level separator is enabled, the number will first be split into prefix and suffix sections and then incremented accordingly. If

either the prefix or the suffix contains a matching rollover character, rollovers will occur at the page and document levels.

- The alpha-numeric Bates numbering setting may be used with rolling sections as well. For example, ABC.999.999.9999 would increment to ABD.000.000.0001 with both settings enabled. If the alpha-numeric option is disabled while rolling numeric is enabled, the value would become ABC1.000.000.0001. However, if a non-numeric character exists in a section, that section will not rollover. For example, 001.99z would increment to 001.99aa.
- If **Use document level attachment numbering** is enabled, the [00-00] suffix will be applied to the end of the user-defined starting value. The rollover calculations occur prior to appending this suffix.
- The sub-option, **Allow page level numbering to span across sections**, will determine whether or not pages of a document will span across more than one document level. This numbering option allows users of Ringtail to number documents in conformance with the numbering scheme utilized frequently in Australia for document productions.

### **Incremental Numbering Syntax for Pages**

You can auto-number documents on a page level, using a seed value contained in an index field. For example, if you have a file name field such as ABC0001 you can number PageID's based on the field and with each page incrementing automatically.

When you number a page level field with a document level index field, use &[<Field Name>] to apply the value of the document level field to the page level destination field for each page.

• To increment the document field for each page use the syntax:

&[<Field Name>]++

Adding ++ at the end of the field increments the document level index field for each page in the document.

This ++ syntax is also used in the endorsing function in batch processing when applying headers and footers.

### **Batch Updating**

A batch update applies the same update to multiple documents at one time.

Note the following facts about batch updates:

- Batch updates can be run either from a grid view or from the main window.
- A batch update run from a grid view applies the update to the records listed in the grid.
- A batch update run from the main window applies the update to pages and documents selected under the Index tab of the main window.

For more information about selecting records using grids see Launching the Grids.

For more information about updating documents individually, see <u>Document-Level Coding</u>.

### Batch updates in grid views

1. From a standalone grid or embedded grid click the batch update button: **Statch Update** dialog box appears.

🕏 Batch Update – 🗆 🗙						
🖶 Add Field 💢 Remove Field						
Field	Value					
	lasted tout (users fields	01		0		
Auto-Increment se	elected text/memo fields	ОК		Canc	er	
					11.	

- 2. Select fields and values to update.
  - To add a field initially, click in the empty field cell, click again on the list control that appears in the cell, and then select a field from the list.
  - To add or remove fields, select the field and then click **Add Field** or **Remove Field**.
- 3. Select **Auto-increment selected text/memo fields**, if necessary. When enabled any value entered for text or memo type fields increment by one for each updated

record. This feature could be used to assign a new, unique identifier to all or a subset of documents in a case.

- 4. Click **OK.** A message box appears that reports the number of records updated.
- 6. Click **OK**.

#### **Batch updates in the Index tab**

1. Select the documents to be updated.

For example, in the following screenshot, these pages are selected: 0002, 0004, 0006, 0007, and 0009.

	ltemNo	ImgExt	Pages	Page Range	DocID	DocExt
3	0001	TIF	1			
3	0002	TIF	1			
3	0003	TIF	1			
3	0004	TIF	1			
3	0005	TIF	1			
3	0006	TIF	1			
3	0007	TIF	1			
3	0008	TIF	1			
7	0009	TIF	1			

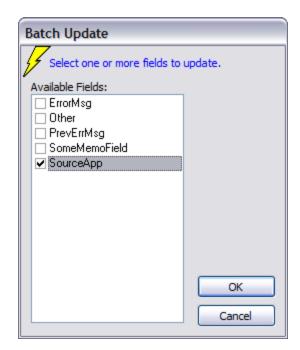
2. Enter the common values in the fields that you want to update.

For example, in the following screenshot, in the **SourceApp** field, *Microsoft Word* is selected. The **SourceApp** field in each record selected in the previous step will be updated with *Microsoft Word*.

Index 🧔 🤇	Grid View	
DocID		
Custodian		
EDSession		
EDSource		
EDFolder		
ErrorMsg		
PrevErrMsg		
FileType		
FileDescription		
FileAccuracy		
SuspectExt		
DocExt		
OrigExt		
SourceApp	Microsoft Word	
> Profile: <default< td=""><td>&gt; Vpdate (</td><td>Clear</td></default<>	> Vpdate (	Clear

- 3. Click **Update**. The **Batch Update** dialog box appears.
- 4. Select any fields to be updated.

In the following screenshot, **SourceApp** is selected for update.



- 5. Click **OK**.
- Click OK in the Batch Update message box, which confirms that updates were successful.

### Using Text Files for Coding

CloudNine<sup>™</sup> LAW can import delimited text files to link records in LAW with existing index information stored in delimited text format. This feature is useful when coding was performed in another application, for example.

In Version 7.0 & 7.1, Turbo Import cases are not eligible for scanning, importing (dii, opt, dat, or csv) load files, case to case imports, or raw image imports. Only EDRM XML load files are supported. Not all options are available in Turbo Import enabled cases for File, Edit, and Folder. The Scan tab is not able to be viewed in Turbo Import enabled cases.

In Version 7.2+ Delimited text files and Tag lists for overlaying fields onto records in Turbo Import enabled databases are available for use.

### To import delimited text files

- 1. On the File menu click Import, and then click Delimited Text.
- 2. The **Import Delimited Text** dialog appears.

3. Select a delimited text file (\*.csv , \*.txt) to import.

A sample of the data contained in the file is displayed. This preview can be used to check the order of the fields being imported and whether or not the first record contains the field names.

- 4. If necessary, adjust the **Character Encoding** value to ensure the file is parsed correctly.
- 5. To ignore the first row if the first record of the file contains field names, select **First row contains field names.**
- 6. Select the fields being imported from the list of **Available Fields** according to the following requirements:
  - The fields must appear in the same order as they appear in the text file.
  - The records must either be already numbered (i.e., PageID for image records) or have at least one coded field to act as the image tag. Otherwise, the coded data cannot be linked to the images.
  - Select Image Tag must be marked as one of the fields to import. The Image Tag field must be selected because it is used to match the imported data with existing records. It acts as a "link" between the records in the imported field information and the existing records in the LAW case. If no match is found for the incoming record, it will be ignored. If a duplicate match is found, both records matching the Image Tag value found in the LAW case will be updated with the same information.
- Extended property, page-level, and system fields with field names that start with an underscore, \_, are not shown in the Available Fields list. In version 7.2+ Import Set, EdaId, Custodian Id, ImportSet Id, EdSource Id, EdFolder Id, and EDSession Id are not listed in the Available Fields list nor Image Tag list.
- 7. Select **<!-SKIP FIELD->** for fields not to be imported.
- 8. Select a **Data Delimiter** to allow other types of delimited files to be imported.
- 9. Click Begin.
- To return the options on this page to their original values, click **Restore Defaults**. This action resets the delimiters back to the default comma/quote delimiters.

## **Creating Tag Fields**

Tag fields allow you to mark document or pages with a Boolean value (yes or no). Tags can be used for any number of purposes, for example, to mark documents that must be

converted to TIFF or that have already been converted. Tagging may be performed on individual records, on all records in a case, or on filtered results. Users may also import a list of unique IDs to toggle tag values.

The tagging feature has multiple uses. Users may choose to tag documents that need to be converted to TIFF, produced to paper, responsive documents, etc. Users may even wish to tag documents that should be produced at a larger paper size or produced in color. This feature makes it easier for any project, scanned or electronic discovery, to be produced.

Before documents can be tagged, one or more tag type index fields will need to be created.

## To create tag fields

1. On the Index menu, click Modify Fields.

Or

- From the main menu, click the Manage Your Profiles button: .
- 2. The Modify Fields dialog box appears.

lame 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	•	Field Order:	
DocCat	Document	Numeric	1	<u>~</u>	<u>v</u>				DocID	
DupID	Document	Numeric	1	<b>V</b>	<b>V</b>				Custodian	
DupMethod	Document	TinyInt	1		<b>V</b>				EDSession EDSource	
FTIndex	Document	TinyInt	1	2	$\checkmark$				EDFolder	
GUID	Document	Text	1	<b>V</b>	~				ErrorMsg	
PS ARCX	Document	TinyInt	1		<b>V</b>				PrevErrMsg	
PS_ATTX	Document	TinyInt	1		<b>V</b>				FileType	
PS DIGESTX	Document	TinyInt	1		~				FileDescription	
PS EMBEDX	Document	TinyInt	1						FileAccuracy SuspectExt	
PS_MDX	Document	TinyInt	1						DocExt	
PS NATIVEX	Document	TinyInt	1						OrigExt	
PS OLEX	Document	TinvInt	1						SourceApp	
pplicationName	Document	Text	1				~		Filename	
ttach	Document	Memo	1				~		Filesize	
ttachLvl	Document	Numeric	1						EDPages Title	
ttachmt	Document	Text	1						Subject	
	Deciment	Numeria	-					~	Author	

3. Click Add Field. The Add Field dialog box appears.

Add Field	×
Name:	
Table:	Document-Level
Type:	Text 🔹
	Indexed Unique
	Insert at top of list
	<u>O</u> K <u>Cancel</u>

- 4. Type a name for the tag field and then make a selection from the **Table** list as Document-Level or Page-Level. For example, if you are creating a field to identify pages having suspect footers, select Page-Level. If you are creating a field to identify documents that are ready for export, select Document-level.
- ▲ Tag name rules:
  - Tag names can contain any combination of upper and lower case letters, numbers, and underscores
  - Tag names are case-insensitive, meaning that if there is already a tag named "Bob", you cannot create another tag named "BOB"
  - Tag names cannot begin with a number
- 5. Select **Tag (Boolean)** for the type.
- 6. Select **Insert at top of list** to insert the field at the top of the list in the **Index** display, making the field easier to locate.
- Icave Indexed and Unique unselected.
- 7. Click **OK** to create the tag field.

The process of tagging documents is discussed in the <u>Tagging Records</u> topic. For more information on creating index fields, see the <u>Creating Index Fields</u> topic.

# **Tagging Records**

You use tag fields to mark records with a **Yes** or **No** value. In the grid displays, a **Yes** value appears as a checked checkbox. A **No** value appears as an unchecked checkbox. Tag fields are potentially useful for many purposes, such as tracking status of records. To learn how to create a tag field, see <u>Creating Tag Fields</u>.

You can tag records by using any of the following methods:

- Select records to update using the mouse.
- Edit records using hotkeys.
- Batch update.
- Tag list import. See the <u>Importing Tag Lists</u> topic for information on the third method of tagging multiple documents.
- Promote tags to near-duplicate documents. See <u>Promoting Tags to Near Duplicates</u> the topic for more information.

## To tag records individually using a mouse

- 1. Open a grid display.
- 2. Make sure the tag field you want to work with is visible. Right-click the field names title bar.

The **Field List** dialog box appears.

- 3. Select your tag field.
- 4. In the grid, select or deselect the checkbox in the tag field for the record.

## To tag multiple records at once

- 1. Open a grid display.
- 2. Make sure the tag field you want to work with is visible.
- 3. Right-click the field names title bar.

The **Field List** dialog box appears.

- 4. Select your tag field.
- 5. Filter records as needed.
- 6. Select rows to tag or leave rows unselected to tag all.
- 7. Right-click a cell in the tag field and then click one of the options:
  - Tag Selected Rows as Yes. Marks selected rows as Yes.
  - Tag Selected Rows as No. Marks selected rows as No.
  - Toggle Tag for Selected Rows. On selected rows, changes tags marked No to Yes and tags marked Yes to No.
  - Tag All Rows as Yes. Tags all rows in current view, whether selected or not to Yes.

- Tag All Rows as No. Tags all rows in current view, whether selected or not to No.
- **Toggle Tag for All Rows.** Regardless of selection, changes any tag in current view marked **No** to **Yes** and any tag marked **Yes** to **No**.

A message box provides the number of records updated.

8. Click **OK**.

## To tag using hotkeys

You can assign a hotkey to tag fields. Tagging fields using a hotkey can be more efficient than using the mouse to select records. To tag using hotkeys you must perform three steps:

- 1. **Assign hotkeys to tags.** In this step you create a link between a keyboard key, such as F1, and a tag field.
- 2. **Enable review mode.** In this step you prevent conflicts between your hotkeys and those provided by default in CloudNine<sup>™</sup> LAW. Enabling review mode temporarily suspends all default hotkeys in LAW and allows the hotkeys you assigned to function according to your configuration choices.
- 3. **Tag records using hotkeys.** In this step you use the assigned hotkey to edit the value in the tag field.

These steps are described in the sections that immediately follow:

## To assign hotkeys to tags

1. In a standalone or embedded grid click the Tagging Hotkeys button:

📙 🔌 😂   🚸 🗈	💼 📮 🦓 🖓 🎼 🎯	🥙 🕑 🐟 📾 🌱 🐕 🖉	🌮 🎲 😽 📴 Grid Vie <u>w</u> s 🕶
		4	

The **Tagging Hotkeys** dialog box appears. All existing tag fields are listed in the Tag Field column.

Tagging Hotkeys		×
Tag Field 🛆		Hot Key
DocumentValidated		 
HiddenText		

2. Select a hotkey for any tag field listed and then click **OK**.

## To enable review mode

1. In a standalone or embedded grid click the Review Mode button:  $\square$ 

A message at the bottom of the grid indicates that review mode is enabled:

Review mode is enabled. Hot keys are active.

- When enabling review mode in the embedded grid, a Review Mode Enabled message box will appear after clicking the review mode button. The button will appear "depressed" to indicate that review mode is enabled (in both grids).
- When you are finished tagging with hotkeys, to disable review mode in either grid, click the **Review Mode** button again.

#### To use hotkeys to tag records

- 1. In a standalone or embedded grid click with review mode enabled, use the up and down arrow keys to navigate through the records in the grid display.
- 2. After a relevant record is found, press the assigned hotkey to toggle the tag value in the tag field.

- The cell displays a green check mark when a record is flagged with the Yes value. Press the hotkey a second time to toggle the current value.
- When you are finished tagging with hotkeys, to disable review mode in either grid, click the Review Mode button again.

## To tag using batch updates

<u>Batch updating</u> is the process of applying the same value to an index field for multiple records. This feature can be used for tagging in addition to updating any other type of user-defined or any other unlocked index field. In most cases, the batch tagging options mentioned above will be more efficient than using this feature when working with tag fields.

- 1. Perform a search or filter to ensure only the desired records are displayed in the grid.
- 2. On the **Edit** menu, click **Batch Update**.

The **Batch Update** dialog box appears.

3. Click within the cell in the **Field** column and then choose a tag field from the dropdown list.

When a tag field is selected, a check box will appear in the associated **Value** cell.

- 4. Update the current record set as follows:
  - To update records to **Yes**, select the checkbox in the **Value** field.
  - To update records to **No**, deselect the checkbox in the **Value** field.
- 5. Click **OK**.

All records currently displayed in the grid are updated.

# Importing Tag Lists

The tag import file is a text (.txt) or comma separated value (.csv) file containing a list of unique identifiers used to locate the records in the case. The unique identifiers typically used in tag lists are the DocID or BegDoc# field. Tag lists make it easier to:

- **Flag multiple records**. This feature is especially useful when native or imaged files have already been distributed and further action such as converting to TIFF or printing a production set with specific documents is required.
- Find records in a database created by a database application other than the type associated with the case. If a different type of database was used to flag

records and a list of documents to be produced was created, this list may be easily imported into the existing LAW case and later queried to locate the records for further processing.

In Version 7.0 & 7.1, Turbo Import cases are not eligible for scanning, importing (dii, opt, dat, or csv) load files, case to case imports, or raw image imports. Only EDRM XML load files are supported. Not all options are available in Turbo Import enabled cases for File, Edit, and Folder. The Scan tab is not able to be viewed in Turbo Import enabled cases.

In Version 7.2+ Delimited text files and Tag lists for overlaying fields onto records in Turbo Import enabled databases are available for use. "

#### **<u>To import a tag list</u>**

1. On the **File** menu, click **Import** and then click **Tag List**. The **Import Tag List** dialog box appears.

Document Import	Page Ir	nport			
Select Tag Import File					
Eirst row contains field	d names	Range Delimiter	: (058)	Browse	
Document ID Field					
<begdoc#></begdoc#>	•				
Target Field	Action	Flag Valu	e		_
DocumentDetails	<ul> <li>Update</li> </ul>	-			
Selected Fields			Ad	<u>D</u> elete	
Target Field	Action	Flag Valu	ue		

2. Click **Browse** to locate the tag import file.

If the import file's first record contains the field name, check the **First row contains field names** box. The range delimiter is used when importing ranges of records to be updated rather than a list of individual ID numbers (i.e. ID0001-ID0048).

- 3. Configure **Target Field**, **Action**, and **Flag Value** as needed. Note the following when configuring these options:
  - The **Document ID Field** lists fields that may be used to link the incoming import file with existing records. For example, if the user is provided a text file containing a list of DocIDs that match the DocIDs in the case, then the user would select DocID as the Document ID Field.
  - For greater performance in cases with a large number of records, it is recommended to apply an index to the selected Document ID field. You can manually apply a tag to a field by using the Modify Fields dialog box. However, CloudNine™ LAW will check for the existence of an index on the selected Document ID field. If the field is not indexed after initializing the import, LAW will allow the addition of an index for the selected Document ID field at that time. When adding an index using this method, the grid displays will need to be closed prior to adding the index. If the grid is active, LAW will display a prompt requesting the grid be closed in order to continue.
  - A memo field cannot be used as the Document ID field.
  - The **Target Field** is the field to be updated with the "tag" value. If a tag field is selected, the Flag Values will appear as "True" and "False". The Action drop-down will have two options: Update (which will update the records with the specified Flag Value) and Reverse (which ignores the Flag Value and simply toggles the current value of the tag field for each affected document). If other field types are selected, such as a text field, the Action options will change to Update (explained above) and Append, which allows users to append the specified Flag Value to any existing field data. Date fields will only have an Update option.
- 4. Click **Add.** The entry is added to **Selected Fields**.
- 5. Select additional target fields as needed.
- 6. Click **OK**. The import process starts.

After the import is complete, a report appears that lists the number of records that have been updated and any errors that may have occurred during the import. These records may then be returned by a search using the filter functions or query tools.

# Coding at Scan Time

Data may be coded at the same time the document is scanned. For efficiency purposes, coding at scan time is performed when the same value will exist for multiple records such as a Box or Folder label.

#### To code at scan time

- 1. Select the folder in which documents will be scanned.
- 2. Place the document in the scanner feeder.
- 3. Enter the values you need to populate.
- 4. Press F3.

The new document is scanned and the field is populated accordingly.

# **Batch Processing**

The Batch Processing utility enables you to perform repetitive operations, such as document numbering, applying endorsements or performing optical character recognition (OCR) to a selection of documents or to all documents in a case.

Batch processes can be applied to the following actions:

- Document and page numbering.
- Extract custom metadata.
- Split Adobe Acrobat PDF files by bookmark.
- Image cleanup.
- Endorse documents.
- Optical character recognition (OCR).
- Print images and native files.
- Find documents with double endorsements (scan for suspect footers.)
- Convert documents to TIFF or PDF.
- Update page color and size data.

In addition, the Batch Processing utility is capable of enrolling multiple computers to complete certain shared processing tasks, such as endorsing. For more information see: <u>Distributed Batch Processing</u>.

## Performance and document page counts

In cases with a large number of documents and/or pages, a delay may be experienced when launching the Batch Process or Export Utility dialogs while LAW calculates the total number of pages to display.

## To disable page counting

- 1. On the **Tools** menu, select **Options**, and then click the **Preferences** tab.
- 2. Clear the Calculate total pages in batch/export dialogs check box.

Options
Imaging Indexing Notifications Numbering OCR Preferences
<ul> <li>Add all new list field values to list on update</li> <li>Allow selection of multiple list items Separator character ;</li> <li>Auto-advance after updating a document</li> <li>Calculate total pages in batch/export dialogs</li> <li>Enable SQL Server/SQL Express support</li> <li>Link to source files in place when importing load files</li> <li>Prompt to continue scanning when feeder is empty</li> <li>Refresh duplicate status after deleting records</li> <li>Send query results to grid on main form by default</li> </ul>
Start the Management Console on Windows startup
Notify if new version available
Path for global profiles, grid views, and filters:
C:\Program Files (x86)\LAW50\Shared\
<u>O</u> K <u>Cancel</u>

3. Click **OK**.

Start the Batch Processing utility. The number of pages will no longer appear beside the number of documents.

Some MSG files with large inline images are not able to re-size the image to fit the page when tiffing or printing via batch processing. This issue is by design, because

this is a limitation of the source applications not auto-sizing the images during the tiffing\printing process.

## **Selecting Documents for Processing**

There are several methods for selecting items for batch processing:

- From within the Batch Processing tool you can: select all documents in the case, select entire folders, or select ranges of items within folders.
- From the Query Builder or from a grid you can send query results or grid items directly to the Batch Processing tool.

These methods are described in the following sections:

To process all documents

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

Batch Processing	×
<u>O</u> ptions	
Processes  Processes  Document Numbering  Page Document  Target <page id="">  Starting #  Document Processing/Analysis  Image Cleanup Deskew Black-Border Removal Hole Removal Noise Removal Noise Removal First page only OCR Print (Standard - Image Only) E-Print (ED - Native Files) Scan for Suspect Footers TIFF/PDF Conversion Turbo Imager</page>	Selected Documents  All Documents  Current Record Set  Selected Documents Select  Total: 144 docs  Sharing  Enable Distributed Batch Processing Name: (Unassigned) Type: CLOSED (No clients will join) Edit  Carter are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'  Refresh View
Update Page Data	Begin Cancel

- 2. Select and configure options for batch processes as needed.
- 3. Select All Documents.
- 3. Click Begin.

#### To process grid items

- 1. Open a grid. For information on opening a grid see Launching the Grids.
- 2. On the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens. When opened from a grid, meaning the items that currently appear in the grid.
- 4. Select and configure options for batch processes as needed.
- 5. Click Begin.

#### **<u>To process query results</u>**

1. From the main form on the **Tools** menu, click **Search Records**. The Database Query Builder opens.

👼 Database Query Builder							$\times$
<u>File E</u> dit <u>V</u> iew							
Advanced Saved Filters Search History							
		-					_
Join: Field Name:	-	Operator:	-	Value (text):			-
	······	Equals	·	1	_	-	
					(+	Add Condition	
					+)	Insert Before	
					(-	Remove	
					-)	Remove All	
					Х		
AND Full text search							
					~	Dictionary	
						Options	
						Load Terms	
						Full Text Reports	
						Tag Text Hits	
					~		
Return all Page IDs with query results Use NOLOCK to impr	rove performan	ce (SQL only/read-	only)	Return parent/at	tachme	nt groups	
Send Results To: Grid View (Standalone)					E <u>x</u> e	cute <u>C</u> anc	el:
No clauses currently defined							

- 2. Configure a query. For more information on configuring queries see Creating Queries.
- 3. In the Send Results To drop down list, select Batch Process.

- 4. Configure any other query options as needed and then click **Execute**.
- 5. The **Batch Processing** tool opens. When opened from a query, the selection of the Batch Process tool defaults to **Current Recordset**, meaning the items returned from the query are those that are processed.

Options         Processes         Document Numbering         ● Page       Document         Target <page id="">         Starting #          Document Processing/Analysis       Selected Documents         Image Cleanup       Selected Documents         Deskew       Selected Documents         Black-Border Removal       Noise Removal         Hole Removal       Enable Distributed Batch Processing         Name:       (Unassigned)         Type:       CLOSED (No clients will join)         Edit       Edit         Type:       CLOSED (No clients will join)         Edit       Edit         Type:       CLOSED (No clients will join)         Edit       Edit         There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'         IFF/PDF Conversion       Iterv         Turbo Imager       Update Page Data</page>	Batch Processing	×
<ul> <li>Document Numbering</li> <li>Page Document</li> <li>Target Page ID&gt; </li> <li>Starting #</li></ul>	Options	
Update Page Data	Processes Document Numbering ● Page Document Target <page id=""> Starting # Document Processing/Analysis Image Cleanup Deskew Black-Border Removal Hole Removal Noise Removal Endorse Image First page only OCR Print (Standard - Image Only) E-Print (ED - Native Files) Scan for Suspect Footers TIFF/PDF Conversion Turbo Imager</page>	<ul> <li>All Documents         <ul> <li>Current Record Set</li> <li>Selected Documents Select</li> <li>Total: 144 docs</li> </ul> </li> <li>Sharing         <ul> <li>Enable Distributed Batch Processing</li> <li>Name: (Unassigned)</li> <li>Type: CLOSED (No clients will join)</li> <li>Edit</li> </ul> </li> <li>There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'</li> </ul>
Begin Cancel		Begin Cancel

- 6. Select and configure options for batch processes as needed.
- 7. Click Begin.

## To process folders

- 1. From the main form or from a standalone grid, on the **Tools** menu, select **Batch Process**. The Batch Processing tool opens.
- 2. Select and configure batch processes as needed.
- 3. Click Select. The Select Folders dialog box opens.

- 4. Expand the folder structures and place check marks next to any folder that contains documents you want to process.
- 5. Click **OK**.
- 6. Click Begin.

## **To process ranges of documents**

- 1. From the main form or from a standalone grid, on the **Tools** menu, select **Batch Process**. The Batch Processing tool opens.
- 2. Select and configure batch processes as needed.
- 3. Click Select. The Select Folders dialog box opens.
- 4. Expand the folder structures and place check marks next to any folder that contains documents you want to process.
- 5. To process a range of documents in a folder, place a check mark next to the folder and then click **Set Range**. The **Select Document Range** dialog box opens.
- 6. Select any two items to define a range of items and then click **OK**.
- 7. Select other folders and set ranges as needed.
- 8. When all folders and document ranges are selected click **OK**.
- 9. Click Begin.

# Document Numbering

Document numbering is used to assign numbers to documents or pages. Typically, this means assigning an alphanumeric value, such as the Page ID to each page of a document so that the page can be reliably paired with an image file. Document-level fields may also be numbered using this process.

## To run a document numbering batch process

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

	Selected Documents			
rocesses	Selected Documents			
Document Numbering	All Documents			
Page     Document	Current Record Set			
Target <page id=""> -</page>				
Starting #	Selected Documents Select			
Document Processing/Analysis	Total: 144 docs			
Image Cleanup	Charing			
Deskew	sharing			
Black-Border Removal	Enable Distributed Batch Processing			
Hole Removal	Name: (Unassigned)			
Noise Removal				
Endorse Image	Type: CLOSED (No clients will join) Edit			
First page only	Differe are currently no shared batches running for you to			
OCR	join. You may "re-poll" the batch queue by pressing 'Refresh			
Print (Standard - Image Only)				
E-Print (ED - Native Files)	<u>R</u> efresh <u>V</u> iew			
Scan for Suspect Footers				
TIFF/PDF Conversion				
Turbo Imager				
raiboiniagei				

- 3. Select the documents to number. For more information on selecting documents for batch processing, see <u>Selecting Documents for Processing</u>.
- 4. In the **Processes** area, select **Document Numbering**.

Document Numbering Page Occument			
Target Field	<page id=""> 🔹</page>		
Starting #			

- 5. Select either **Page** or **Document**. Select the number to apply from the **Target Field** list.
- 6. Type a starting number.

The value will increment by one for each document or page.

7. Click Begin.

# **Extracting Custom Metadata**

There are two ways to extract metadata from documents in a case. Metadata can be extracted from documents during the import process when using LAW Electronic Discovery Loader to import files into a case or by using the Batch Processing utility after documents have been imported into a case.

When extracting metadata, you can customize what type of metadata is extracted from the case files by selecting the metadata extraction options you want to apply. When importing documents, the metadata extraction options are defined on the Settings tab under the Metadata category in the LAW Electronic Discovery Loader dialog box. In the Batch Processing utility, metadata extraction options are defined in the Document Analysis Options dialog box.

For more information about extracting custom metadata during the import process, see <u>Metadata</u>.

The Document Processing/Analysis feature in the Batch Processing utility analyzes and extracts the metadata from the selected record set, based on the metadata extraction options selected in the Document Analysis Options dialog box. The Document Processing/Analysis feature in the Batch Processing utility also provides the option to split Adobe Acrobat PDF files by bookmarks into separate PDF files.

To extract custom metadata using the Batch Processing utility

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** utility opens.

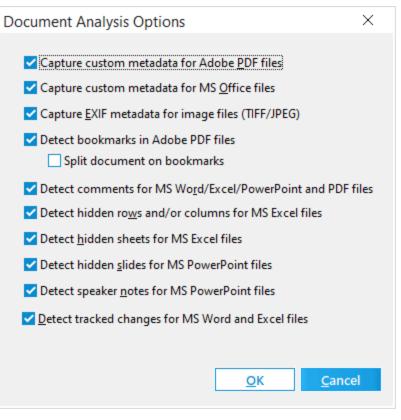
le Batch Processing	×
Options	
Processes  Processes  Document Numbering  Page Document  Target <page id="">  Starting #  Document Processing/Analysis  Image Cleanup Deskew Black-Border Removal Hole Removal Noise Removal Noise Removal Endorse Image First page only OCR Print (Standard - Image Only) E-Print (ED - Native Files) Scan for Suspect Footers TIFF/PDF Conversion Turbo Imager Update Page Data</page>	Selected Documents  All Documents Current Record Set Selected Documents Select Total: 144 docs  Sharing Enable Distributed Batch Processing Name: (Unassigned) Type: CLOSED (No clients will join) Edit Total: There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'
	Begin Cancel

2. Select the documents containing the metadata you want to analyze and extract.

For more information on selecting documents, see <u>Selecting Documents for</u> <u>Processing</u>.

- 3. Select the **Document Processing/Analysis** check box.
- 4. On the **Options** menu, click **Document Analysis Options**.

Clicking **Document Analysis Options** opens the **Document Analysis Options** dialog box. The **Document Analysis Options** dialog box contains all of the metadata extraction options available in the Batch Processing utility. By default, all of the check boxes, except the **Split document on bookmarks** check box, are selected.



- Capture custom metadata for Adobe PDF files. Extracts metadata field names and values that were assigned to the original Adobe Acrobat PDF. Such fields might include the names of e-mail attachments, or of PDF's embedded in other files such as in a Micrsoft Word document.
- **Capture custom metadata for MS Office files**. Extracts metadata field names and values that were assigned to Microsoft Office file, except for Publisher and Access files. Field names and data are brought into the LAW case as *extended properties*. See note below.
- Capture EXIF metadata for image files (TIFF/JPEG). Extracts metadata field names and values from EXIF files. If found, custom metadata fields are added to the case database with field names preceded by EP.
- **Detect bookmarks in Adobe PDF files.** If an Adobe Acrobat PDF file contains bookmarks, assigns a Y to the HasBookmarks field.
- **Split document on bookmarks.** Adobe Acrobat PDF files containing bookmarks will be split into separate PDF files by each bookmark. When this check box is selected, the bookmark names are added the BookmarkName field.
- ✓ The PDF custom metadata extraction and the PDF split operation cannot be performed simultaneously or with other batch processing jobs in a batch. Each operation must be performed in a separate batch.
  - **Detect comments for MS Word/Excel/PowerPoint and PDF files.** If comments in Microsoft Word, Excel, and PowerPoint files or sticky notes in Adobe Acrobat PDF files are detected, assigns a **Y** to the **HasComments** field.

- Detect hidden rows and/or columns for MS Excel files. If hidden columns or rows are found, assigns a Y to HasHiddenRow and HasHiddenColumn, respectively.
- Detect hidden sheets for MS Excel files. If hidden sheets are found, assigns a Y to the HasHiddenSheet field.
- Detect hidden slides for MS PowerPoint files. If hidden slides are found, assigns a Y to the HiddenSlides field.
- Detect speaker notes for MS PowerPoint files. If speaker notes are found, assigns a Y to the SpeakerNotes field.
- Detect tracked changes for MS Word and Excel files. If tracked changes are found, assigns a **Y** to the **HasTrackChanges** system field.
- Extended property metadata is placed in *extended property* fields that are created when the documents are imported or the metadata is extracted by the Batch Processing utility. The names of all extended property fields start with *EP*. The remainder of the field name depends on the name of the field as it exists in the source document. For example, if a Word document is imported that contains a custom metadata field called Typist, LAW will create a metadata field during the import or batch processing called *EPTypist*. Deleting a document will delete all corresponding extended properties for that document. For more information on extended properties, see: <u>Extended Properties in Grid Views</u>.
- 5. Make sure the check box is selected for the options you want to apply during the metadata extraction.
- 6. Clear the check box for the options you do not want to apply during the metadata extraction.
- 7. Click **OK**.

Clicking **OK** saves the option settings and closes the **Document Analysis Options** dialog box.

8. Optionally, select the **Enable Distributed Batch Processing** check box and configure the session as needed.

For more information on using distributed batch processing see <u>Distributed Batch</u> <u>Processing</u>.

9. Click the **Begin** button.

When the batch process is completed, the **Status** dialog box is displayed.

10. Click **OK** to close the **Status** dialog box.

## To split PDF files

Adobe Acrobat PDF files can be split into separate PDF files bases on the original PDF file's bookmarks. Using the Document Processing/Analysis feature in the Batch Processing utility, you can have LAW identify the PDF files containing bookmarks, and then have these PDF files split, based on the PDF file's bookmarks.

When a PDF file is split by bookmark, the original PDF file is deleted, and the PDF file containing the pages of the first bookmark becomes the parent file. The PDF files for the remaining bookmarks become the children of the first bookmark PDF file.

For example:

If a PDF file has 15 pages with 3 bookmarks (Bookmark 1 = pages 1-5, Bookmark 2 = pages 6-10, Bookmark 3 = pages 11-15), when the PDF file is split, the PDF file generated for bookmark 1 will be the parent file, and the PDF files generated for bookmarks 2 and 3 will be the child files.

1. From the main form on the **Tools** menu, click **Batch Process**. The Batch Processing utility opens.

Batch Processing	×
Options	
Processes	Selected Documents
Document Numbering     Page Document     Target <page id="">     Starting #</page>	All Documents     Current Record Set     Selected Documents     Select
Document Processing/Analysis	Total: 144 docs
<ul> <li>Image Cleanup</li> <li>Deskew</li> <li>Black-Border Removal</li> <li>Hole Removal</li> <li>Noise Removal</li> <li>Endorse Image</li> <li>First page only</li> <li>OCR</li> <li>Print (Standard - Image Only)</li> <li>E-Print (ED - Native Files)</li> <li>Scan for Suspect Footers</li> <li>TIFF/PDF Conversion</li> <li>Turbo Imager</li> <li>Update Page Data</li> </ul>	Sharing         Enable Distributed Batch Processing         Name:       (Unassigned)         Type:       CLOSED (No clients will join)         Edit         There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'         Refresh       View
	Begin Cancel

2. Select the PDF files containing bookmarks that you want to split.

For more information on selecting documents, see <u>Selecting Documents for</u> <u>Processing</u>.

- ▲ When splitting PDF files, all PDF files containing bookmarks identified by the Batch Processing utility will be split. Make sure you only select the PDF files you want to be split.
- 3. Select the **Document Processing/Analysis** check box.
- 4. On the **Options** menu, click **Document Analysis Options**.

Clicking **Document Analysis Options** opens the **Document Analysis Options** dialog box.

- 5. Select the **Detect bookmarks in Adobe PDF files** and **Split document on bookmarks** check boxes.
- ✓ The PDF custom metadata extraction and the PDF split operation cannot be performed simultaneously or with other batch processing jobs in a batch. Each operation must be performed in a separate batch.
- 6. Click **OK**.

Clicking **OK** opens the **Confirm PDF Split** message.

Confirm PD	)F Split
4	Warning! You have enabled splitting of PDF files. This will split all PDF files with bookmarks detected. Would you like to proceed anyway?
	Yes No

- 7. Click Yes.
- 8. Optionally, select the **Enable Distributed Batch Processing** check box and configure the session as needed.

For more information on using distributed batch processing see <u>Distributed Batch</u> <u>Processing</u>.

9. Click the **Begin** button.

When the batch process is completed, the **Status** dialog box is displayed.

10. Click **OK** to close the **Status** dialog box.

When the batch process is completed the **HasBookmarks** field for the PDF files containing bookmarks is set to **Y**, and the **BookmarkName** field is populated with the name of the bookmark associated with the PDF file. If a bookmark name exceeds 251 characters, the bookmark name will be truncated.

🛐 Index 🏼 🏹 Gri	d View
DocID	00011226
HasBookmarks	Y
BookmarkName	About LAW PreDiscovery
DocExt	pdf
Filename	About LAW PreDiscovery.pdf
Custodian	
EDSession	Session 0002 on Enron Sample Case
ErrorMsg	¢
PrevErrMsg	
FileDescription	Adobe Portable Document Format
FileAccuracy	3
SuspectExt	Ν
OrigExt	
SourceApp	Adobe Acrobat 👻
Filesize	761189
> Profile: Split PDF	▼ Update Clear

In the tree view document list on the **Index** tab, the PDF files generated from the bookmarks are listed as children of the original PDF file.

	ItemNo	ImgExt	Pages	Page Range	DocID	DocExt
-	0001		0		00011226	PDF
-	0002		0		00011226.002	PDF
5	0003		0		00011226.003	PDF
5	0004		0		00011226.004	PDF
5	0005		0		00011226.005	PDF
5	0006		0		00011226.006	PDF
5	0007		0		00011226.007	PDF
5	0008		0		00011226.008	PDF
5	0009		0		00011226.009	PDF
7	00 10		0		00011226.010	PDF
5	0011		0		00011226.011	PDF

# Image Cleanup

The Batch Processing tool provides image cleanup options that can improve the legibility of black and white scanned images of paper documents. Eliminating data borders, holes, and noise from images can also help to reduce file size.

Note that if you are annotating a document and then run an image cleanup before merging the annotations, the annotations are lost.

## To run an image cleanup batch process

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

le Batch Processing	×
Options	
Processes Document Numbering Page Document Target <page id=""> Starting # Document Processing/Analysis Image Cleanup Deskew Black-Border Removal Hole Removal Hole Removal Noise Removal First page only OCR Print (Standard - Image Only) E-Print (ED - Native Files) Scan for Suspect Footers</page>	Selected Documents            • All Documents         • Current Record Set         • Selected Documents         • Select         • Total: 144 docs          Sharing         • Enable Distributed Batch Processing         Name: (Unassigned)         Type: CLOSED (No clients will join)         • Edit         • Type: CLOSED (No clients will join)         • Edit         • Type: There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'         Eresh
<ul> <li>TIFF/PDF Conversion</li> <li>Turbo Imager</li> <li>Update Page Data</li> </ul>	Begin Cancel

- 2. Select the documents to cleanup. For more information on selecting documents, see <u>Selecting Documents for Processing</u>.
- 3. Click Image Cleanup.
- 4. Select from the following options:
  - **Deskew** Straightens the alignment of the image.
  - **Black-Border Removal** Removes black borders from images. In order for black borders to be removed, the borders must be of uniform width (angled black edges will not be removed).
  - **Hole Removal** Removes afterimages of standard size holes (1/4" 5/16") left from scanning pages that were hole punched. Perform quality control on images batch processed for hole removal. Hole removal can be done for RAW Image and scanned documents, and documents imported in ED Loader and converted to TIFF before hole removal. The letters o and e and zeros, are ignored by the hole removal process. If needed, the image borders can be configured for removing holes on images from the Configure Scan Filters dialog box (Scan > Scan Options > Configure Filters).
  - **Noise Removal** -- Remove speckles from the image that result from dust on an image during copy or scanning.

- Optionally, select Enable Distributed Batch Processing and configure the session as needed. For more information on using distributed batch processing see <u>Distributed</u> <u>Batch Processing</u>.
- 6. Click Begin.

## **Endorsing Headers and Footers**

You can use the Batch Process tool to add custom headers and footers to images and both searchable and image-only Adobe Acrobat PDF files. The same header and footer may also be applied to printed images and PDF files during batch processing, although it will not be stamped on the image unless the endorse process is selected.

After headers and footers are added to a PDF-converted file, and the PDF file is endorsed or printed, the original version of the PDF file, [original file name] \_original.pdf, is created in the <case root>\\$Image Archive folder, even if a PDF file is printed without the Endorse Image check box selected.

When applying header and footers, a border is added to the image to eliminate the chance of overwriting image data. Placing headers and footers on a border also makes it easier to edit or remove any header or footer previously applied by CloudNine<sup>™</sup> LAW.

☑ The following languages are currently supported for endorsing Adobe Acrobat PDF images:

Bulgarian, Catalan, Czech, Danish, English, Estonian, Finnish, French, Greek, Haitian Creole, Hebrew, Hmong Daw, Hungarian, Indonesian, Italian, Klingon, Latvian, Lithuanian, Malay, Norwegian, Polish, Portugese, Romanian, Russian, Slovak, Slovenian, Spanish, Swedish, Turkish, Ukranian, Urdu, Vietnamese

If an endorsement contains a language other than one the languages listed above, the endorsement will not be applied to the PDF image.

## Preview Window Version 7.0.206+

In Version 7.0.206+, the ability to preview your endorsement settings prior to

endorsing was introduced. The preview button Preview allows the user to view the Font, Alignment, and positioning of the headers and footers on a sample image without endorsing.

1. To use the preview window, select **Preview**. The Image Preview opens in a new window.



2. The Image Preview toolbar allows you to adjust the displayed image.

3.	
Icon	Description
🖻 Best Fit	Formats the sample image with sample endorsements in the Image Preview window so that all can be displayed.
🖼 Fit to Width	Formats the sample image with sample endorsements in the Image Preview window so that the width extends to the edge of the viewer. (This setting may cut off headers/footers from view.)
📮 Fit to Height	Formats the sample image with sample endorsements in the Image Preview window so that the height extends to the edge of the viewer.
🔤 Actual Size	Displays the sample image with sample endorsements in the Image Preview window without formatting.
🗾 Zoom In	Allows the user to zoom in on parts of the sample image for closer review.
🦻 Zoom Out	Allows the user to zoom out on parts of the sample image.

4. Selecting OK closes the Image Preview window.

After endorsing, you can also validate the endorsement using the Scan for Errors dialog box. See Scanning for Errors for details.

## To add and configure a header and footer

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

Batch Processing	×
Options	
Processes	Selected Documents
Document Numbering     Page Ocument	All Documents     Current Record Set
Target <page id="">  Starting #</page>	Selected Documents Select
Document Processing/Analysis	Total: 144 docs
Image Cleanup	Sharing
Black-Border Removal	Enable Distributed Batch Processing
Hole Removal Noise Removal	Name: (Unassigned)
Endorse Image	Type: CLOSED (No clients will join) Edit
First page only	There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'
Print (Standard - Image Only)	<u>R</u> efresh <u>V</u> iew
E-Print (ED - Native Files)	
TIFF/PDF Conversion	
Turbo Imager	
Update Page Data	
	Begin Cancel

- 2. Select the documents to process. For more information on selecting documents see <u>Selecting Documents for Processing</u>.
- 3. Select **Endorse Image** and then either select or clear **First page only**, as needed.
- ▲ When using the **First Page Only** option, if the first page contains annotations, the annotations will be lost.
- 4. On the **Options** menu, click **Header/Footer**. The **Header/Footer** dialog box appears.

Header/Footer			
Header Left section:	Center section:	Right sect	tion:
Resize Header/Footer Automatically based on Enable word-wrap	endorsement text	O Manually Header (in.) Footer (in.)	0.5" 💌
A 🗑 🔄 📄	fm sections		
Left section:	Center section:	Right sect	tion:
Save settings as default	Preview	<u>о</u> к	<u>C</u> ancel

- 5. Add text as needed to occupy the left, center and right sections of the header and footer.
- Each text box can contain a maximum of 8 lines. For TIFF-converted files, it is best practice to only enter a maximum of 4 lines in each text box.
- 6. Configure header and footer options as needed:

When you want to	Do this
Resize Header/Foote r	Select Automatically based on endorsement text or Manually
	<ul> <li>LAW automatically adjusts the size of the header and footer, based on the text and text settings entered for the header and footer in the Header/Footer dialog box.</li> <li>Header and footer heights are automatically adjusted in increments of .25 inches.</li> </ul>

When you want to	Do this
added in 6.14.062	
Apply word wrapping to the header/footer text on image files.	<ul> <li>Select the Enable word-wrap check box.</li> <li>To turn off word wrapping for header/footer text, clear the Enable word-wrap check box.</li> <li>By default, the Enable word-wrap check box is selected. This check box only applies to image files. Headers and footers are automatically wrapped on PDF files, regardless of the Enable word-wrap check box setting.</li> </ul>
Manually	<ul> <li>Select a value in the Header (in.) or Footer (in.) list</li> <li>Note the following:</li> <li>The default size of 1/2" is adequate for 2 lines of text at the default font size.</li> <li>The value you select for header or footer size only takes effect if the header or footer contains text.</li> <li>If the header/footer text is too large for the specified border size, it will be cropped.</li> </ul>
Change the font.	<ol> <li>Select text to format and then click </li> <li>The Font configuration will open in a new window.</li> </ol>

W

hon vou	Do this	
hen you ant to	Do this	
	Font	×
	Font: Courier New Courier New Carlz M1 Dubai Edwardian George ITE Elephant ENGRAVERS MT V	Font style:Size:Regular12Italic14Bold18Bold Italic202224
	Effects Strikeout Underline	Sample AaBbYyZz
	Color: Black ~	Script: Western ~
	Show more fonts	OK Cancel

- 3. Configure the font as needed.
- 4. Select the color of the font as desired Version 6.18+

When you want to	Do this
	Color:
	Black 🗸
	Black
	Maroon
	Green
	Olive
	Navy
	Purple
	Teal
	Gray
	Silver
	Red
	Lime
	Yellow
	Blue
	Fuchsia
	Aqua
	White

5. Then select OK.

Some colors endorsed on white may not have the text extracted through the OCR process. (For example: Silver, White, Lime, Aqua, Gray or Yellow fonts)

- Currently, LAW only supports the following fonts when endorsing Adobe Acrobat PDF files:
  - Times New Roman
  - Courier
  - Symbol
  - Helvetica

Apply the selected font	1. Select <b>Synchronize fonts for all sections</b> check box.
format uniformly to all header/footer sections.	<ol> <li>Then select the font button: A to configure the text settings for all sections.</li> </ol>
	Synchronize fonts for all sections must be selected prior to configuring the font, size, and/or color. Synchronize fonts for

When you want to	Do this		
	all sections is not affected by right, center, or left justification introduced in version 7.0.206+.		
Format fonts in each section	1. Clear Synchronize fonts for all sections check box.		
independently.	2. Select text to be changed and then click the font button: A.		
	3. Configure the font as needed and then click <b>OK</b> .		
Add a page number to a section.	1. Click in a desired section.		
	2. Click the page number button: 闭.		
	&[Page] is inserted into the section.		
Add a page count to a section.	1. Click in a section.		
	2. Click the page count button: 🖽.		
	&[Pages] is inserted into the section.		

Add a field value to a section.		Click in a section.
Section	2.	Click the field value button: 📃.
		The Select Field dialog box appears.

When you want to	Do this		
		Select Field	
		Available Fields: < <u>BeqDoc#&gt;</u> ApplicationName Attach Author BatchStation BCC BookmarkName Categories CC Comments ConversationIndex Custodian DateAccessed C	
	3.	Select a field and then click <b>OK</b> .	
		A token that represents the field value is inserted into the section.	
Add the PageID to a section.	1.	Click in a section.	
	2.	Click the PageID button: 🔟.	
		&[Page ID] is inserted into the section.	
Left Justified Version	1.	Click in a section.	
7.0.206+	2.	Click the Left Justified button:	
	3.	All text in the selected section will be Left Justified.	
Center Justified Version 7.0.206+	1.		
7.0.200+	2.	Click the Center Justified button: 🔳.	
	3.	All text in the selected section will be Center Justified.	
Right Justified	1.	Click in a section.	

When you want to	Do this
Version 7.0.206+	<ol> <li>Click the Right Justified button: </li> <li>All text in the selected section will be Right Justified.</li> </ol>
Configured default settings for headers and footers.	Select or clear <b>Save settings as default</b> .
Endorse documents with sequential values based on a starting value in a specified index field.	Type ++ after the field notation in the header/footer code. For example, a footer value of "&[DocID]++" would cause the documents to be endorsed sequentially, starting each document with the value in the DocID field.

- 7. Click **OK**.
- 8. Optionally, select **Enable Distributed Batch Processing** and configure the session as needed. For more information on using distributed batch processing see <u>Distributed Batch Processing</u>.
- 9. Click **Begin**.

#### **<u>To change or remove headers and footers</u>**

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

Batch Processing	×
Options	
Processes	Selected Documents
Processes         Document Numbering            • Page         Document         Target          Starting #         Document Processing/Analysis         Image Cleanup         Deskew         Black-Border Removal         Hole Removal         Noise Removal         First page only         OCR         Print (Standard - Image Only)         E-Print (ED - Native Files)         Scan for Suspect Footers         TIFF/PDF Conversion         Turbo Imager	<ul> <li>All Documents</li> <li>Current Record Set</li> <li>Selected Documents Select</li> <li>Total: 144 docs</li> <li>Sharing</li> <li>Enable Distributed Batch Processing</li> <li>Name: (Unassigned)</li> <li>Type: CLOSED (No clients will join) Edit</li> <li>There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'</li> <li>Refresh View</li> </ul>
Update Page Data	Begin Cancel

- Select the documents that you want to apply headers/footers to, for example, select: All Documents or Current Record Set, or click Select to specify documents individually. For more information on selecting documents see <u>Selecting</u> <u>Documents for Processing</u>.
- 3. Select Endorse Image and then either select or clear First page only, as needed.
- ▲ When using the **First Page Only** option, if the first page contains annotations, the annotations will be lost.
- 4. On the **Options** menu, click **Header/Footer**. The **Header/Footer** dialog box appears.

Header/Footer			
Header			
Left section:	Center section:	Right sec	tion:
Resize Header/Footer			
Automatically based on endorsement text		Manually	
Enable word-wrap		Header (in.)	0.5" 👻
		Footer (in.)	0.5" 👻
		rooter (iii.)	
A 🗑 🗄 🗎	ÎD		
Synchronize fonts for a	ll sections		
Footer			
Left section:	Center section:	Right sec	tion:
Save settings as default	Preview	<u>O</u> K	<u>C</u> ancel

- 5. Do one of the following:
  - To create a new header/footer, edit the header and footer as needed.
  - To remove the existing header/footer, without adding a new one, remove any text in the header and footer fields, or set the border size to **None**.
- 6. Click **OK**.
- 7. Click Begin.

CloudNine<sup>™</sup> LAW removes the previously applied headers/footers and adds any new one that you specified.

## To validate endorsements

After endorsing, you can also validate the endorsement using the Scan for Errors dialog box. See Scanning for Errors for details.

### Best practices for headers/footers

Note the following best practices when working with headers and footers:

• Before you apply a header or footer to a large set of documents, first apply the specified header/footer on a small subset of documents. Be sure that text fits and

that other results match your expectations and then if necessary adjust accordingly and retest.

- If trying to position text using spaces, it is easiest to use a monospace font, such as Courier New or Lucida Console in which all characters are the same width.
- Use caution when working with rotated images containing an existing endorsement.

If the endorsement does not appear on the top or bottom of the image due to a manual rotation (as viewed in CloudNine<sup>™</sup> LAW), removing or modifying the existing endorsement on this image will cause LAW to remove the endorsement (which LAW thinks exists on the bottom of the image) and may remove actual document data located at the bottom of the image. One way to prevent this from occurring is to first rotate the image so the endorsement that LAW applied to the image appears as it was applied.

# Applying Watermarks

You can use the Batch Process tool to apply a watermark at the same time as you endorse or print. Applying a watermark permanently stamps an image onto the document.

## To apply a watermark

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

Batch Processing Options	×
Processes  Processes  Document Numbering  Page Document  Target <page id="">  Starting #  Document Processing/Analysis  Image Cleanup Deskew Black-Border Removal Hole Removal Hole Removal Noise Removal Endorse Image First page only OCR Print (Standard - Image Only) E-Print (ED - Native Files) Scan for Suspect Footers TIFF/PDF Conversion Turbo Imager Update Page Data</page>	Selected Documents   Ourrent Record Set   Selected Documents   Total: 144 docs   Sharing  Inable Distributed Batch Processing   Name:   (Unassigned)   Type: CLOSED (No clients will join)   Edit  There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'   Refresh
	Begin Cancel

- 2. Select the documents to watermark. For more information on selecting documents, see <u>Selecting Documents for Processing</u>.
- 3. Click **Options** and then click **Watermark**. The **Watermark Settings** dialog box opens.

Watermark Settings	
Watermark File	Preview
Options Apply watermark to endorse process Apply watermark to print process	
Alignment	
	<u>O</u> K <u>C</u> ancel

- 4. Select or browse to an image file. Most commonly used image file formats are supported, for example: bitmap, GIF, JPEG, PNG, and TIFF.
- 5. Specify whether to apply the watermark to just the endorse process, the print process or both.
  - Apply watermark to endorse process adds the watermark to whatever other endorsement you select.
  - **Apply watermark to print process** adds the watermark to printed output. If selected, then also select an alignment for the watermark: Top Left, Top Right, Bottom Left, or Bottom Right.
- 7. Click **OK** and then click **Begin**.
- ▲ Endorsed watermarks cannot be removed. Given that there is usually some trial and error involved in applying graphics to files and given that watermark requirements can change over the course of a project, it is considered a best practice to back up the case and images and test the watermark on a small batch of records before you endorse the full set of records with a watermark.

## **Considerations for applying watermarks**

Before you apply a watermark, note the following considerations:

- Unlike endorsements, watermarks cannot be removed once applied. It is recommended that you backup your case and image files before applying a watermark.
- If a watermark is applied during an endorsement where text is also being applied, the watermark will be aligned to the additional header or footer applied to the

document. If the text needs to later be modified, re-applying the endorsement will cause LAW to remove the old header/footer and re-apply the new header/footer text. Some of the watermark's image data may exist in this region and would be lost in this situation. Avoid this situation by either creating watermarks that contain wide margins so image data does not exist outside the header/footer regions or apply the watermark as a final step.

- Different image formats will be applied differently on the various image types. For best results, if the source documents are TIFF images, use/create a watermark which is also a TIFF image using the same resolution as the original document. If the watermark appears expanded or smaller more than expected, it could be due to a large difference in the image resolutions. Color formats should also be considered. Applying a color watermark on a black and white document will result in a black and white watermark.
- Various colors resolve different when applied as a watermark. White and other light colors, such as yellow resolve as transparent. Black resolves as black. Medium to dark colors, such as red, green, and blue, resolve as shades of gray.
- GIF images with transparent regions are not compatible with this feature.
- If the dimensions of the watermark are greater than the size of the document, the watermark will be resized to fit to page.
- For very large jobs, it can help to take the file size of the watermark image into consideration. The time required to apply a watermark increases with the file size of the watermark. It is recommended to use a small-sized watermark file. For example, a watermark endorsement job might achieve a rate of 21,000 pages per hour using a 4 KB watermark file. Running the same job using a 400 KB file might achieve a rate of only 16,000 pages per hour.
- ♀ If you need to redact a batch of documents all in the same spot on the page, you can use the watermark feature. First, create a new document in Microsoft Word. In the Word document, position a text box with a black background on the redaction spot and then print the document to TIFF file. Switch to CloudNine™ LAW. In the batch process settings for watermark select the TIFF file. Try the batch first on a couple of test documents to be sure of the positioning. When you are certain the position is correct for all the documents, run the batch.

# Batch Processing OCR

You can use the Batch Processing tool to perform OCR on documents.

## Before starting an OCR batch process

Note the following when preparing to OCR using a batch process:

• Each page that you intend to OCR must have its OCR flag set to On or Yes. For more information see <u>Flagging Documents/Pages for OCR</u>.

- Documents may be skipped, even if flagged, if they already have OCR for the specified output format and the "Overwrite Existing Files" OCR setting is not selected.
- When selecting the output format, keep in mind that most third-party applications cannot use non-text formats for search and retrieval capabilities.

## <u>To start an OCR batch process</u>

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

- 2. Select the documents you want to OCR. For more information on selecting documents, see <u>Selecting Documents for Processing</u>.
- 3. Select OCR.
- 4. Click **Options** and then click **OCR**.
- 5. Configure OCR options as needed. For more information on configuring OCR options, see <u>OCR Options</u>.

- Optionally, select Enable Distributed Batch Processing and configure the session as needed. For more information on using distributed batch processing see <u>Distributed</u> <u>Batch Processing</u>.
- 7. After configuring OCR options, return to the Batch Processing tool and then click **Begin**.

# **Batch Printing**

You can use the Batch Processing tool to send selected image records to a specified printer.

# To batch print images

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** dialog box opens.

🔓 Batch Processing	×
Options	
-	Selected Documents  All Documents Current Record Set Selected Documents Select Total: 144 docs Sharing  Enable Distributed Batch Processing Name: (Unassigned) Type: CLOSED (No clients will join) Edit Total: There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'
<ul> <li>E-Print (ED - Native Files)</li> <li>Scan for Suspect Footers</li> <li>TIFF/PDF Conversion</li> <li>Turbo Imager</li> <li>Update Page Data</li> </ul>	<u>R</u> efresh <u>V</u> iew Begin Cancel

- 2. Select the documents to print. For more information on selecting documents, see <u>Selecting Documents for Processing</u>.
- 3. In the **Options** menu, click **Print Options**. The **Batch Print Options** dialog box opens.

Batch Print Options	×
Active Printer: Law Image Driver	•
☐ <u>A</u> uto-Rotate pages Direction: ◯ Left	
Auto-Size paper (Letter, Legal, 11x17)	
Do not print annotations	
Include separator pages     Options       Paper Source     Automatically Select	
Print separator pages only	
Print folder break separator pages	Print Setup
Limit jobs in print queue to: 10	
Rip to PDF before printing	
Send jobs in <u>b</u> atches of N pages: 100	<u>О</u> К
Staple documents (Canon iR 110 only)	<u>C</u> ancel
Save settings as default	

- 4. Configure options as needed. These options are described in the following sections of this topic.
- 5. Click **OK** and then click **Begin**.

## Auto-Rotate Pages

This setting causes pages to be rotated 90 degrees. This setting can be useful when printing TIFF images of landscape-formatted pages.

## Auto-Size Paper

This option automatically selects the paper size that most closely matches the image dimensions.

For example, a legal sized document may have been scanned as 8  $\frac{1}{2}$ " x 14" and endorsed in CloudNine<sup>TM</sup> LAW with a  $\frac{1}{2}$ " footer resulting in an image size of 8  $\frac{1}{2}$ " x 14  $\frac{1}{2}$ ". LAW detects the page size and sends it to the paper size that most closely matches the original size of the image; in this example, the document would be printed on legal sized paper. This feature will also work with documents containing mixed paper sizes.

To use this feature, you must also enable **Send jobs in batches of N pages,** otherwise a message box will appear stating the feature requires it and will enable the option automatically.

Enabling these two options also enables the printing of color separator pages. For more information, see the <u>separator pages</u> section in this topic.

### Do Not Print Annotations

Use this setting to exclude non-merged annotations from printed output. If this setting is disabled, any non-merged annotations will appear on the printed output.

### Include Separator Pages

When the **Include separator pages** check box is selected, separator pages will be printed in front of each document. The **Paper Source** list selection determines the paper tray used for the separator pages, enabling separator pages to be pulled from an alternate tray than the actual images. This allows the separator pages to be printed on color pages if the printer contains multiple trays. The available trays are determined by the specified printer driver and frequently apply to a wide range of models. As such, some trays listed may have no effect on the specific printer model used. Experiment to determine the actual trays used before batching a large set of documents when using this feature.

- Options. Clicking the Options button opens the Map Placeholder Templates dialog box. The Map Placeholder Templates dialog box is used to select the separator page template you want to use for batch print jobs. If you need to create or edit an existing custom separator page template, you can click the Manage Templates button in the Map Placeholder Templates dialog box to open the Separator Page Options dialog box, where custom separator page templates are created, edited, and deleted.
- **Print separator pages only.** When the check box is selected, only the separator pages for the selected documents are printed. The actual documents will not be printed. If needed, select the **Options** button to configure the separator pages prior to printing.

• **Print folder break separator pages.** When the check box is selected, a separator page is printed each time a new folder is encountered while printing the selected documents. Folder breaks can be configured in the **Separator Page Options** dialog box.

For more information about separator pages, see <u>Separator Pages</u>.

### **Limit Jobs in Print Queue**

This setting causes LAW to monitor the print queue for active jobs and limit the number of jobs in the print queue to the specified number. This can be beneficial for slower printers by minimizing the amount of information queued at any one time. If this feature is activated, LAW will stop sending documents to the printer once the limit has been reached and wait until the document currently being printed is complete before sending another.

### Rip to PDF Before Printing

Use this setting to convert images to PDF format before sending them to the printer.

If you print using a PostScript printer driver, this option can decrease time required to print. The performance gain is the result of inherent compatibility between the PDF format and PostScript drivers.

## Send Jobs in Batches of N pages

This setting controls the size of jobs sent to the printer. It can improve printing results in two ways:

• It can significantly improve printer performance when printing a large number of documents with only a few pages each on high-speed printers.

For example, using the default spool limit of 100 to print 100 3-page documents would cause LAW to send 3 100-page documents to the printer as opposed to 100 3-page documents. This eliminates the majority of the extra time required by the printer for cycling down and then up again between documents.

• It corrects the problem with documents being printed out of order by various digital printers.

The spoolers used by many high-speed printers, in an attempt to reduce printing time, will actually reorder documents in the print queue causing documents to be printed out of order even though they were sent to the printer in the original order. Batching the documents into large print jobs prevents the print spooler from reorganizing documents in most cases.

With this feature enabled, separator pages cannot be printed to a separate tray unless **Auto-Size paper** is also selected.

### Staple Documents

This setting has been added specifically for the Canon iR110 printer to staple documents during the print process in CloudNine<sup>™</sup> LAW. This is the only printer supported for stapling, although other models may in fact work as well.

### Tracking Print Jobs in the Spooler

Each document sent to the print spooler will be named in the following format, making quality control of print jobs via the print spooler easier to perform:

LAW Batch 000000 - <Description>

- The count to the left of the hyphen will increment by one for each job.
- The <Description> will be replaced with the DocID, BegDoc#, or ID for documents.

LAW will use whichever item is found first in the order shown. If **Send jobs in batches of N pages** is enabled, the <Description> portion will not be present as the job would contain multiple documents. For separator pages, the <Description> will be followed by a hyphen and then **Break** for document separator pages or **Folder Break** for folder separator pages.

## **Examples**

Example (folder break): LAW Batch 000276 - Folder Break

Example (document break): LAW Batch 000277 - Break

Example (document): LAW Batch 000278 - ABC00382

# **Scanning for Suspect Footers**

You can use the Scan for Suspect Footers batch process to help find documents having more than one endorsement. This process scans all pages for footers appearing to be 1 inch or larger and flags an index field that you select if any pages in a document contain suspect footers.

To scan for suspect footers

- Create a *document-level* (Text) field. This field will be used to identify pages with suspect footers. For more information on creating (Text) fields see <u>Creating Tag</u> <u>Fields</u>.
- 2. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

Batch Processing	×
Options	
Processes	Selected Documents
<ul> <li>Document Numbering</li> <li>Page</li> <li>Document</li> <li>Target</li> <li>Page ID&gt;</li> <li>Starting #</li> <li>Document Processing/Analysis</li> <li>Image Cleanup</li> <li>Deskew</li> <li>Black-Border Removal</li> <li>Hole Removal</li> <li>Hole Removal</li> <li>Noise Removal</li> <li>Endorse Image</li> <li>First page only</li> <li>OCR</li> <li>Print (Standard - Image Only)</li> <li>E-Print (ED - Native Files)</li> <li>Scan for Suspect Footers</li> <li>TIFF/PDF Conversion</li> <li>Turbo Imager</li> </ul>	<ul> <li>All Documents</li> <li>Current Record Set</li> <li>Selected Documents Select</li> <li>Total: 144 docs</li> <li>Sharing</li> <li>Enable Distributed Batch Processing</li> <li>Name: (Unassigned)</li> <li>Type: CLOSED (No clients will join) Edit</li> <li>There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'</li> <li>Refresh View</li> </ul>
Update Page Data	Begin Cancel

- 3. Select the documents to scan. For more information on selecting documents, see <u>Selecting Documents for Processing</u>.
- Optionally, select Enable Distributed Batch Processing and configure the session as needed. For more information on using distributed batch processing see <u>Distributed</u> <u>Batch Processing</u>.
- 5. Select Scan for Suspect Footers.

If you have never run this batch process before, an **Invalid Suspect Field** message appears.



6. Click OK. The Select Field For Suspects dialog box appears.

Select Field for Suspects	
Available Fields	
MyPageLevelTagField	
	ОК
	Cancel

7. Select the document-level field that you created to identify suspect footers and then click **OK**. The batch process starts.

# **E-Printing and TIFF Conversion**

You can use the e-print batch process to print native files to paper.

You can use the TIFF conversion batch process to convert native files to TIFF images, or to reprocess files that are already in TIFF. In the process of converting native files to TIFF images the application displayed in the SourceApp field for each record is used to convert the native document to a TIFF image. For example, if Microsoft Word is the value in SourceApp, then Microsoft Word will be used to convert the document. The selected SourceApp must be installed on the computer in order to be used for TIFF Conversion. See the <u>Output Settings for E-Print and TIFF Conversion</u> section for information about native application options and TIFF printer settings. For a list of source applications and supported file types, see <u>Supported File Types</u>.

This process uses the LAW Image Driver, or LAW Image Driver 300 DPI, selected files to TIFF images.

- Some MSG files with large inline images are not able to re-size the image to fit the page when tiffing or printing via batch processing. This issue is by design, because this is a limitation of the source applications not auto-sizing the images during the tiffing\printing process.
- ✓ To view page data (PageSize, PageWidth, PageHeight) in the index or grid view after converting PDFs to TIFFs using batch processing, you must run the Update Page Data batch process. See <u>Updating Page Data</u> for details.

## Supported File Types

CloudNine<sup>™</sup> LAW supports printing images and documents created in Microsoft Office and other applications. In addition to the default file types, you can specify custom file types for printing, provided that they can be opened and printed by one of the supported source applications. For a list of supported source applications please see System Requirements.

The source applications are the programs used to open and print documents, and must be installed on the same computer as LAW to print documents of that type.

## Supported source applications

The following table lists the supported source applications and their common corresponding file types.

File Type	Source Application
*.pdf	Adobe Acrobat/Reader:
	Adobe Acrobat Standard 9
	Adobe Acrobat Pro 8 or X
	Adobe Acrobat Reader 8, 9, 10, or 11
	Law PDF. This is an internal application provided for users without access to Adobe Acrobat/Reader.

File Type	Source Application
Supports over 450 file types. Please view the product website for a list of supported formats: www.cimmetry.com/_products/formats.ht ml	AutoVue Suite
*.wpd	Corel WordPerfect
<pre>*.eprt, *.easm, *.edrw, *.eprtx, *.easmx, *.edrwx (eDrawings Files); *.sldprt, *.sldasm, *.slddrw (SolidWorks Files); *.dwf, *.dxf, *.dwg (DXF/DWG Files); *.3dxml (3DXML Files); *.stl (STL Files); *.prt, *.prt.*, *.xpr, *.asm, *.asm.*, *.xas (Pro/E Files); *.prtdot, *.asmdot, *.drwdot (SolidWorks Template Files)</pre>	<ul> <li>eDrawings Viewer</li> <li>A version of eDrawings Viewer can be used to view or print .DWG files.</li> <li>Install a version of eDrawings Viewer, depending upon your version of CloudNine™ LAW.</li> <li>For LAW version 6.3, install just eDrawings Viewer 2013 (32-bit version only).</li> <li>For LAW version 5.9 - 6.2, install just EDrawings 2011 (32-bit version only). For example, if only EDrawings 2009 is installed along with LAW 5.9 or above, you will be prompted to install EDrawings 2011. It is recommended that you uninstall any versions of EDrawings prior to 2011.</li> <li>For LAW 5.3.14 - 5.8.17 install just EDrawings 2009.</li> <li>For LAW versions previous to 5.3.14 install just EDrawings 2008.</li> </ul>

# \*.htm, \*.html

Internet Explorer

Supports over 100 filetypes.	IrfanView (Introduced in Version 6.17.96)
For a list of filetypes, click:	
http://www.irfanview.com/main_formats. htm	
*.nsf	Lotus Notes
*.xls, *.xlw, *.wk?	Microsoft Excel

File Type	Source Application
*.doc, *.dot, *.htm, *.rtf, *.txt, *.wpd, Unicode text files	Microsoft Word
*.eml, *.idx, *.ics, *.msg, *.pst, *.ost, *.vcs	<ul> <li>Microsoft Outlook</li> <li>When tiffing MSGs with oversized images the oversized image is not able to resize to fit the page. This behavior is by design. LAW uses Outlook to print the documents and this result is the behavior of Outlook.</li> </ul>
*.pps, *.ppt	Microsoft PowerPoint
*.mpp	Microsoft Project
*.vs*, *.v?x	Microsoft Visio
*.xps	Microsoft XPS Document Writer
*.snp	Snapshot Viewer
*.bmp	True Color (32-bit) Bitmap
*.dxf	VoloView Express

## **Built-in sources**

LAW directly supports printing of several file types. These are listed as follows:

- **Binary/Hex Printer** \*.bin, \*.hex
- **Text/RTF Printer** \*.txt, \*.rtf, \*.ini, \*.bat, \*.vbs, \*.java, \*.cpp, and various other text based types.
- Unicode text files are not supported with the Text/RTF Printer. However, RTF with Unicode is supported. This is a limitation of the underlying component. To print Unicode text files, use Microsoft Word or the Shell Printer as the source application.
- Image Printer \*.awd, \*.bmp, \*.dcx, \*.gif, \*.jpg, \*.pdf, \*.pex, \*.tif, \*.xif

- IrfanView IrfanView is a graphic viewer application that can be used for imaging many supported file formats. For a list of formats, click: <u>http://www.irfanview.com/main\_formats.htm</u>
- **Native PDF Printer** The Native PDF Printer source application can be used to print PFD (\*.pdf) formatted files.
- **Shell Printer** The Shell Printer source application can be used to print file types through any application that supports command line printing. In other words, if you can right-click on a file in Windows and select Print, to print the file through the associated application, then the application supports command line printing.

When the Shell Printer is set as the SourceApp for a document in CloudNine<sup>™</sup> LAW, then the application associated with that file type in Windows will be used to convert the file to TIFF or print the file to paper in CloudNine<sup>™</sup> LAW.

For example, a user imports a text file into LAW and sets the SourceApp to Shell Printer. On the user's computer, text files are associated with Notepad. When the user converts the file to TIFF in CloudNine<sup>™</sup> LAW, Notepad will be used to print the file to TIFF or PDF. The output image will be added to the record in CloudNine<sup>™</sup> LAW, as it would when using any other SourceApp.

If using the Shell Printer, you must ensure that the application registered on the system for text files supports shell prints. For example, Notepad supports shell prints.

Supported file types for the Shell Printer source application include \*.xps files.

• **Compressed (ZIP archive) Files** - LAW also supports printing zipped archives (\*.zip) and self-extracting zip archives (\*.exe). Zipped files will automatically be included in both file and e-mail print jobs. The contents of the archive will be processed according to the specified file types for printing. If a zip file happens to contain a zip file, Z-Print will recursively open the archives and process the supported file types. The filename extraction format for Zip files is in the format <Archive>^<Filename>.

### Special file types

LAW does not support printing Lotus 1-2-3 documents directly. In order to print these documents, you must have Microsoft Excel installed.

Printing WordPerfect files to MS Word may require an additional add-on found on the Microsoft Office installation CD. If this add-on is not installed prior to printing WordPerfect files, Word will be unable to recognize the file format and an error will be logged.

In order to use the "Snapshot Viewer", you must install support for the Microsoft Access Snapshot Viewer. If Microsoft Office with Access is installed, it can be added from the Office installation media. If Microsoft Access is not installed, a free viewer can be downloaded from Microsoft.

Both Internet Explorer and Word are capable of printing HTML (\*.htm / \*.html) files. By default LAW prints these two file types to Internet Explorer due to issues with Word. If you experience any problems printing certain HTML files using Internet Explorer then try using Word to print.

Note: HTML files will always return a page count of 1 if the source application is set to Internet Explorer. If the source application is set to Microsoft Word, the page count will return 1 if the file is exactly 1 page long, or it will return 2 pages if the document is longer than a page. Accurate page counts for HTML files will be determined and logged after the file has been printed to either an image or paper.

Printing files with VoloView Express (\*.dwg) automatically centers the drawing and fills the page.

✓ VoloView Express may not work correctly for the first document printed if the 'Drawing Settings' tab of the Page Setup is not the active tab. The last viewed tab remains the default. To ensure it works correctly, open a document, select the Drawing Settings tab, and click OK. This tab should remain the default tab allowing LAW to send the appropriate messages to the dialog.

## Output Settings for E-Print/TIFF Conversion

You can use the E-Print batch process to print to paper native files that have been imported into a case. You can use the TIFF Conversion to convert native files to TIFF images. The batch process for TIFF conversion supports distributed batch processing. For more information, see <u>Distributed Batch Processing</u>.

If you used ED Loader or Turbo Import to import the items that you intend to e-print or convert to TIFF, note that the time zone specified during import will persist when you e-print or convert the items to TIFF. For more information on managing time zone settings during import see either <u>ED Loader import</u> or <u>Turbo Import</u> settings for Time Zones.

For more information on source applications and file types supported for E-Print, and TIFF, production, see <u>Supported File Types</u>.

To access the e-print and TIFF conversion output settings

- 1. From the main window, in the **Tools** menu, click **Batch Process**. The **Batch Processing** dialog box opens.
- 2. In the **Options** menu, click **E-Print Options** or click **TIFF Options**.

Clicking **E-Print Options** opens the **e-Print Options** dialog box. Clicking **TIFF Options** opens the **TIFF Conversion Options** dialog box.

### **To view or edit file IDs and their file extensions**

#### **To view file IDs and their file extensions in ED Loader cases**

- 1. In the main window click the **File** menu and then click **Import** and then click **Electronic Discovery.**
- 2. In ED Loader on the **Tools** menu, click **File Type Manager**.
- 3. The Manage File Types opens in a new window.

nected To: LAW5_Management					🔎 Extension		
All Entries> (4648)	rag a coli	umn head	er here to gro	up by that column.			
ncluded (3283) ixcluded (1415)	Inc.	Exc.	File ID	Description	Extensions	Active Ext.	Extrac
Platforms		<b>V</b>	1	Disk Directory			
Content Types			2	Disk Volume Label			
Storage Types			3	Text File	TXT DOC INI IN	TXT	
Assigned Applications			4	Graphics Interchang	GIF GIFF	GIF	
			5	MS Windows Bitmap	BMP DIB SYS R	BMP	
			6	Amiga Interchange F	LBM IFF ILM BB	LBM	
			7	MS Paint Bitmap	MSP	MSP	
			8	AutoDesk Animator	FLI FLC FII	FLI	
			9	GEM VDI Paint Image	IMG GEM	IMG	
			10	PC Paint/Pictor Pag	PIC PICTOR CLP	PIC	_
			11	PC Paintbrush Bitmap	PCX PCC	PCX	
			12	PKZip Archive	ZIP JAR WMZ	ZIP	
			13	MacBinary (Mac Dat	MAC	MAC	
			14	Creative Voice Sound	VOC	VOC	
			15	DOS Program	EXE COM SYS 0	. EXE	
			16	Amiga SoundTracke	MOD NST	MOD	
			17	Macintosh Sound +	SND HCO	SND	

4. The **File ID** column contains the ID number for each file type.

**To view file IDs and their file extensions in Turbo Import cases** 

- 1. Open a Turbo Import enabled case.
- 2. In the main window of the LAW user interface, locate **Turbo Import** in the lower right hand corner.
- 3. Double click on Turbo Import: Idle
- 4. The Turbo Import opens in a new window.

ew Case	🌣 Setti
Import Progress Errors	
Anage your Import dd files, folder & custodians to your Import set. When you are finished, click Start Import to proceed	+ Add Custodian
Drag Files & Folders here to create a new custodian (All files will be added to a single custodian)	Drag Files & Folders here to create multiple custodians (1 new custodian per top level item)

- 5. Select **Settings**.
- 6. The Import Settings window opens.

Content	Filters	Email	Metadata	Output			
ompound D	ocuments						
Expand	d compound	documents					
rror Handlin	g						
Include	e native place	holders for	extraction erro	rs			
asswords							
						+	Import
lote: These p	asswords are r	not dynamica	lly shared with L	AW.			
		not dynamica	lly shared with L/	λW			
anguage An	alysis			W.			
anguage An				ΑW			
anguage An	alysis y language co	ontent durir					
anguage An	alysis y language co	ontent durir	ng analysis				
anguage An Identif Restric	alysis y language co	ontent durir	ng analysis		~		
anguage An Identif Restric ime Zone (UTC) Coor	alysis y language o t language id dinated Unive	ontent durir lentification ersal Time	ng analysis	nguages	~		OK

7. Select the **Filters** tab.

<ul> <li>Enable file</li> </ul>	type filtering	File Type Manager			
Treat file types not specifically included or excluded as:		WARNING: File Type Manager changes are global and apply to all cases that use the same FTM database and enable file type filtering. FTM changes also apply to previously imported documents whose typ			
Include	~	changed from exclude to include.			

- 8. Select the File Type Manager File Type Manager .
- 9. The Manage File Types opens in a new window.

nected To: LAW5_Management						🔎 Extension		
<all entries=""> (4648)</all>		Drag a coli	umn head	er here to gro	up by that column.			
Included (3283) Excluded (1415)	10	Inc.	Exc.	File ID	Description	Extensions	Active Ext.	Extrac
Platforms			~	_	Disk Directory			
Content Types				2	Disk Volume Label			
Storage Types				3	Text File	TXT DOC INI IN	TXT	
Assigned Applications				4	Graphics Interchang	GIF GIFF	GIF	
				5	MS Windows Bitmap	BMP DIB SYS R	BMP	
				6	Amiga Interchange F	LBM IFF ILM BB	LBM	_
				7	MS Paint Bitmap	MSP	MSP	
				8	AutoDesk Animator	FLI FLC FII	FLI	_
				9	GEM VDI Paint Image	IMG GEM	IMG	
				10	PC Paint/Pictor Pag	PIC PICTOR CLP	PIC	
				11	PC Paintbrush Bitmap	PCX PCC	PCX	
				12	PKZip Archive	ZIP JAR WMZ	ZIP	
				13	MacBinary (Mac Dat	MAC	MAC	
				14	Creative Voice Sound	VOC	VOC	
				15	DOS Program	EXE COM SYS 0	. EXE	
				16	Amiga SoundTracke	MOD NST	MOD	
				17	Macintosh Sound +	SND HCO	SND	

10. The File ID column contains the ID number for each file type.

# To edit file IDs mappings to file extensions

• To edit the default list of file types for this feature, place the following setting in the LAW50.ini file located in the application path (i.e. C:\Program Files (x86) \Law50):

```
[TreatNativeAsImage]
ImageFileTypes=321;298;146
```

The default types are shown above, separated by semi-colons. File IDs can be removed from the list and/or other image file IDs can be added. This feature is limited to image files that are supported by the imaging toolkit used by CloudNine<sup>™</sup> LAW. An error will be logged if an image is not a supported file type.

▲ Use caution when adding file types to the list if you plan to endorse the native image files. If the image dimensions are very small, such as 2x2, the endorsement may appear too large on the image or may not be viewable. To prevent this issue, try converting the image to a larger TIFF image (i.e. 8.5x11) instead of using the **treat native as image** setting.

### **<u>Tracking job status in the print spooler</u>**

You can track the status of a job by finding the separator page name in the print spooler. Finding the name is easier if you understand the rules by which pages are named.

The name of each separator page or placeholder sent to the print spooler is formatted as follows:

```
LAW Batch 000000 - <document identifier> - <description>
```

- The count to the left of the hyphen increments by one for each job.
- <document identifier> is replaced with the DocID, BegDoc#, or, with ID for document separator pages and placeholders that are generated for documents that error during TIFF conversion. LAW will use whichever item is found first in the order shown. Folder breaks will not have the document identifier as they are not associated with a single document.
- <description> is replaced by Separator for document separator pages and Placeholder for documents that error during conversion to TIFF.
- The name of the print job for native files will display in the spooler as the filename stored in CloudNine<sup>™</sup> LAW, such as **01.ntv.doc**.

## Examples

- To create a folder break E-Print: LAW Batch 000276 Folder Break
- To create a document break E-Print: LAW Batch 000277 ID000384 Separator
- To create an error placeholder TIFF Conversion: LAW Batch 000278 ID000385 Placeholder

## Acrobat

If you experience problems printing Adobe Acrobat files, try changing the **PostScript Options** in the **Acrobat** category.

To prevent possible problems with certain PostScript printers, CloudNine<sup>TM</sup> LAW prints PDF documents using as default the PostScript level of 3.

If necessary, this setting may be modified by enabling **Allow Binary Data**, and choosing the desired **Print Method**.

TIFF/PDF Conve	ersion Options
<u>F</u> ile <u>H</u> elp	
<u>File</u> <u>Help</u> Categories: Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	Acrobat          NOTE: These options do NOT apply when printing with Acrobat Reader.         PostScript Options         Image: Allow Binary Data         Print Method: Language Level 2
	Save settings as default OK Cancel

## Email

The Print Lotus Notes e-mails natively from Lotus check box, determines whether Lotus Notes email messages are printed natively from Lotus Notes. By default, the Print Lotus Notes e-mails natively from Lotus check box is not selected.

If the Print Lotus Notes e-mails natively from Lotus check box is selected, Lotus notes must be installed locally, and the mail stores (\*.nsf) containing the email messages to be printed, must be located in the same location where they were originally processed.

TIFF/PDF Conve	ersion Options
<u>F</u> ile <u>H</u> elp	
Eile Help Categories: Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	E-Mail     Print Lotus Notes e-mails natively from Lotus     * NOTE: This option requires Lotus Notes to be installed locally, and the mail stores (*.nsf) containing the items to be printed MUST BE in the same location where they were originally processed.
	Save settings as default OK Cancel

## E-Print

The E-Print category in the e-Print Options dialog box contains the active printer and separator page settings for batch e-printing.

e-Print Options				
<u>F</u> ile <u>H</u> elp				
Categories:	E-Print			
Categories: Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project Word	Active Printer: Microsoft XPS Do Print separator Template: Paper Source Included: Excluded: Folders:	p <b>ages</b> Default Template		ions
	Save settings as de	afault		
	save settings as de	ciduit	ОК	Cancel

- Active Printer. Indicates the printer that will be used to print the native files to paper. Click the Setup button to configure any printer-specific settings, such as tray assignments.
- **Print Separator Pages.** When selected, this feature enables the printing of separator pages between documents and/or folders.

• **Template.** Contains a list of available separator page templates, and determines which template is used to generate the separator pages.

If you want to use custom separator pages or map which separator pages to use for specific source applications, errors, or when no source application is found, in the **Template** list, click **<Custom>**, and then click the **Options** button. Clicking the **Options** button opens the **Map Placeholder Templates** dialog box. In the **Map Placeholder Templates** dialog box. In the **Map Placeholder Templates** dialog box you can map predefined and custom separator page template, you can click the **Manage Templates** button in the **Map Placeholder Templates** dialog box to open the **Separator Page Options** dialog box, where custom separator page templates are created, edited, and deleted. For more information, see <u>Separator Pages</u>.

- If a predefined template is selected from the **Template** list and there are separator page templates currently mapped in the **Map Placeholder Templates**, the predefined template selected in the **Template** list will be used to generate all separator pages for the batch e-print job. The predefined templates are: **Blank**, **Default Template**, **Folder and File (Centered)**, **Filename Only (Centered)**, and **Filename Only (Lower left)**. For more information about template priorities, see <u>Separator Pages</u>.
- **Included.** Select a printer tray from the drop-down to print separator pages in front of any "included" file types (supported for printing).
- **Excluded.** Select a printer tray from the drop-down to print separator pages in front of any "excluded" file types (files without a valid source application for printing).
- **Folders.** Select a printer tray from the drop-down to print separator pages at the beginning of each new folder when printing.
- **Print separator pages only.** When the check box is selected, only the separator pages for the selected documents are printed. The actual documents will not be printed.

### Excel

Options for printing Microsoft Excel documents can be found in the Excel category in the e-Print and TIFF Options. These options help to standardize the format of the Excel files being processed.

TIFF/PDF Conve	rsion Options
<u>F</u> ile <u>H</u> elp	
Categories:	Excel
Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	✓ Override Default Settings   Orientation   ✓ Orientation   ✓ Orientation   ✓ Orientation   ✓ Orientation   ✓ Orientation   ✓ Auto-Size Columns   ● Fit to Page   Print   ✓ Gridlines   ● Footers   ● Gridlines   ● Footers   ● Remove repeating columns   ● Hidden rows/columns   ● Hidden sheets   Comments: As displayed   Page order   ● Down, then over   ● Over, then down
	Field Replacements
	Date/Time fields: Do not modify (Print as is)
	Filename fields: Do not modify (Print as is)
	Save settings as default OK Cancel

✓ Take extra care to perform quality control for readability and formatting when converting from Excel files. Page boundaries on spreadsheets can be difficult may require manual adjustment.

# **Descriptions of conversion options**

Conversion options for Microsoft Excel are described in the following table:

# **Option Description**

Override Enables you to override the print settings saved in the native e with settings Default that you select.

Settings For example, select this option if the native file is saved with the option to hide gridlines and you want to print the spreadsheet with gridlines. With Override Default Settings" enabled, the options to override the gridlines and other options become available.

When this option is enabled, Excel recalculates the printable area of a document. An Excel file can contain a very small amount of information (e.g., a space or formatting data) in row 10,000 column AAA, for example. If such data exists, Excel could print all pages up to the pages where print data is stored. This situation could result in hundreds of blank pages being printed. For this reason, it is important to check the quality of Excel files after printing.

Orientati Use this option to select the orientation of the pages to be printed (portrait on or landscape).

- Scaling Auto-Size Columns Adjusts the column sizes so the information contained within the cells is not "cropped" or hidden by an adjacent cell.
  - Fit to Page Forces the entire spreadsheet to fit onto one page when printed. Caution: This option may cause unreadable or extremely small font sizes if the sheets are very large. This feature is not recommended if printing Excel files with unknown content or large amounts of data per sheet.
- Print **Gridlines** Displays the gridlines or cell outlines in the spreadsheet if selected.
  - **Footers** Prevents sheets from including footers on processed documents when disabled. This can be helpful if a footer contains date information that the user does not want included in the output.
    - **Headers** Prevents sheets from including headers on processed documents when disabled. This can be helpful if a header contains date information that the user does not want included in the output.
    - **Hidden columns/rows** Prints any columns and rows that have been hidden when selected.
    - Hidden sheets Prints any hidden sheets contained in the Excel file when selected.
    - **Print black & white** Forces Excel documents to be printed as black and white only, removing all background colors and forcing all text to black. If this setting is enabled, all background fills and patterns are cleared, which can prevent unnecessary parts of a worksheet from being printed.
    - **Remove repeating columns** Prevents any columns set to repeat from repeating in the TIFF output when selected.
    - **Remove repeating rows** Prevents any rows set to repeat from repeating in the TIFF output when selected.

Description
• Row and column headings - Includes the headings in the printed spreadsheet when selected.
• <b>Comments</b> - Prints any comments saved in the Excel files. Comments may be printed As Displayed as saved in the Excel file or at the 'End of the Sheet'.
• Limit output to <n> pages - Limits the number of printed pages to the number specified in the text box. The minimum value for this setting is 0, which will act the same as disabling the setting (does not limit pages printed). The maximum value is 99999. When LAW limits the number of pages for a file, the following warning will be logged to the ErrorMsg field: [tiff]: Output limited by Excel page count threshold (ErrCode=-1, Line=3780). This warning will also be logged in the event the actual page count happens to match the limit specified in the options - LAW cannot filter out these occurrences.</n>
<ul> <li>Down, then Over - Causes the spreadsheet to be printed down the sheet, then over and back down, if selected.</li> </ul>
• <b>Over, then Down</b> - Causes the spreadsheet to be printed across first, then down the columns and back over, if selected.
The following Field Replacement options allow users to specify the actions LAW should take when encountering these types of dynamic fields in a document.
• <b>Date/Time Fields</b> - Allows the selection of one of five items: Do not modify (print as is), Do not print, Replace with date created, Replace with modified date, and Show field codes.
• Filename Fields - Allows the selection of one of four items: Do not modify (print as is), Do not print, Replace path from filename, and Show field codes.
Both of these settings are useful for preventing Excel documents from printing current date or file path information which may only apply to the production machine and not to the project being printed.

# General

This category contains options for configuring the output page limit for printing Microsoft Excel, Adobe Acrobat PDF or Law PDF, and text files to paper or converting them to TIFF files.

When LAW limits the number of Excel, PDF, or text file pages printed or converted, the following warning will be logged to the ErrorMsg field:

[tiff]: Output limited by page count threshold (ErrCode=9955, Line=3170)

This warning will also be logged for Excel and TIFF files if the actual page count happens to match the page limit specified in the page limit configuration options — LAW cannot filter out these occurrences.

The HasPageLimit field will automatically be updated to Y (Yes) for a document when page limits are defined for the printed or converted Excel, PDF, or text files or when the number of pages output during printing or conversion matches the page limit defined for the Excel, PDF, or text file. So if the warning message above is displayed in the ErrorMsg field for a document, the HasPageLimit field will also be set to Y for the document.

✓ The HasPageLimit field is only updated for Excel, PDF, or text files that are printed or converted using batch processing. The HasPageLimit field is not updated for Excel, PDF, or text files that are manually printed or converted.

TIFF/PDF Conve	ersion Options
<u>F</u> ile <u>H</u> elp	
Categories:	General
Acrobat E-Mail Excel HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	Output Page Limit 
	Save settings as default OK Cancel

# Descriptions of configuration options

Configuration options for the General category are described in the following table:

Option	Description
Limit Excel output to [number] pages	Limits the number of printed or converted pages for Microsoft Excel files to the number specified in the text box.

Option	Description
	The minimum value for this setting is $0$ and the maximum value is <b>32767.</b> When the check box is not selected or the value is set to $0$ , LAW does not limit the number of pages printed or converted.
Limit PDF output to [number] pages	Limits the number of printed or converted pages for Adobe Acrobat PDF or Law PDF files to the number specified in the text box.
	This check box only applies to documents that have their <b>SourceApp</b> field value set to <b>Adobe Acrobat</b> or <b>Law PDF</b> .
	The minimum value for this setting is $0$ and the maximum value is <b>32767.</b> When the check box is not selected or the value is set to $0$ , LAW does not limit the number of pages printed or converted.
Limit text output to [number] pages	Limits the number of printed or converted pages for text files to the number specified in the text box.
	This check box only applies to documents that have their <b>SourceApp</b> field value set to <b>Text/RTF Printer</b> .
	The minimum value for this setting is $0$ and the maximum value is <b>32767.</b> When the check box is not selected or the value is set to $0$ , LAW does not limit the number of pages printed or converted.
Fallback to Shell Printer on Error	Select this option if you want LAW to automatically try using the shell printer if the primary printer selected returns an error when attempting to TIFF a file.

# HTML

This category contains options for printing HTML documents paper or converting HTML to TIFF or PDF.

TIFF/PDF Conversion Options		
<u>F</u> ile <u>H</u> elp		
Categories:	HTML	
Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	Remove indentation from presaved e-mails (HTML) when printing Use alternate HTML rendering engine for Internet Explorer	
	Save settings as default OK Cancel	

# • Remove indentation from presaved e-mails (HTML) when printing

Removes the indentation from e-mails converted to HTML for printing. If enabled, all indentation will be stripped when printing to prevent e-mail threads from being pushed so far to the right that the output ends up with very few characters per line. This setting affects only printed output and does not directly affect the native files.

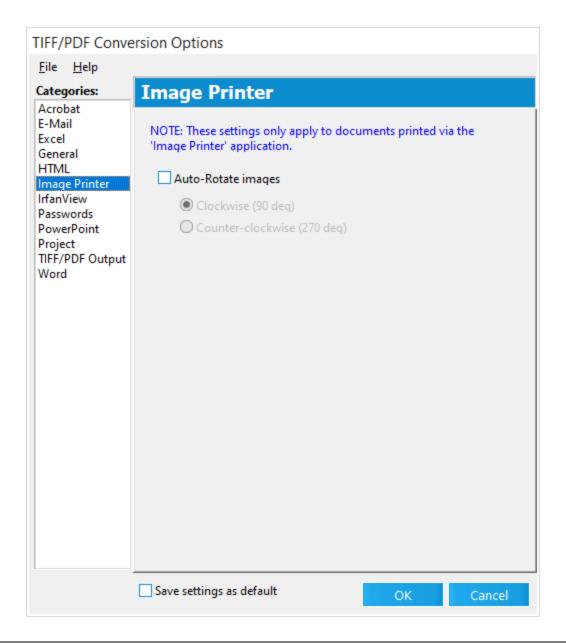
# • Use alternate HTML rendering engine for Internet Explorer

This HTML engine will increase print speeds dramatically for HTML documents printed using Internet Explorer. However, it is not as mature and tested as Internet Explorer for handling extremely complex HTML and all the possibilities of malformed HTML that may occur. Although substantial effort has been taken to verify the output of a wide array of HTML documents printed using this engine, there is no way to test every possibility and CloudNine cannot absolutely guarantee the quality of any third-party product.

Before using this alternate engine for large scale productions, CloudNine recommends that you test small samples and perform periodic QA on any output produced with this engine.

### Image Printer

This category contains options for printing documents to paper or converting them to TIFF using the Image Printer source application.



# • Auto-Rotate Images

Automatically rotates images that are printed through the image printer.

This option is useful for images containing a mixture of landscape and portrait orientations. If printed directly to paper, some of the images would appear correctly in portrait, and others would appear as a landscape image printed on portrait paper.

# IrfanView

This category contains options for printing IrfanView documents to paper or converting them to TIFF or PDF. Supported in LAW Version 6.17.96+

TIFF/PDF Conve	rsion Options
<u>F</u> ile <u>H</u> elp	
Categories: Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	Images         Auto-Rotate images         Orientation         Image         Image
	Save settings as default OK Cancel

### • Auto-Rotate Images

Automatically rotates images that are printed through IrfanView.

This option is useful for images containing a mixture of landscape and portrait orientations. If printed directly to paper, some of the images would appear correctly in portrait, and others would appear as a landscape image printed on portrait paper.

# • Orientation

Select Portrait or Landscape specifically. Portrait is selected by default.

# • Print Size

Original size (from image DPI)

Best fit to page (aspect ratio) Stretch to page (no aspect ratio) Custom - Set custom size in inches

# Passwords

The Passwords area allows you to enter any known passwords for password-protected files contained within the collection. Up to three passwords may be specified at one time for Adobe Acrobat PDFs and LAW PDFs. An unlimited number of passwords may be entered for Microsoft Office applications. All passwords in the passwords section are case-sensitive. If the password for a file is Abc123, then Abc123 would need to be entered; abc123 will not unlock the file.

TIFF/PDF Conve	rsion Options
<u>F</u> ile <u>H</u> elp	
Categories: Acrobat E-Mail	Passwords
Excel General HTML	Acrobat Passwords (Limit of 3):
Image Printer IrfanView Passwords	Remove
PowerPoint Project TIFF/PDF Output Word	MS Office Passwords:
	Add Remove
	Clear
	Save settings as default OK Cancel

• To add a password, click **Add** and then follow the prompts to add a password.

# **PowerPoint**

This category contains options for printing Microsoft PowerPoint documents to paper or converting them to TIFF or PDF.

TIFF/PDF Conve	ersion Options			
<u>F</u> ile <u>H</u> elp				
Categories:	PowerPo	int		
Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	Do not pri	nt auto date/time stamps nt footers nt headers en slides t paper Slides		
	Save settings	as default	ОК	Cancel

# **Descriptions of configuration options**

Configuration options for Microsoft PowerPoint are described in the following table:

Option	Description
Do not print date/time stamps	Removes any auto-date and auto-time fields from a slide and prevents them from printing.
Do not print headers/footers	Prevents printing of the header and footer sections of slides.

Option	Description
Print hidden slides	Prints any hidden slides that exist in the presentation.
Scale to fit paper	Scales the printing of the PowerPoint slide to the current page size.
Print What	<ul> <li>Slides - Prints just the slides and not the notes.</li> <li>Slides and Notes - Prints both the slides and notes.</li> <li>Slides and Notes (Full Page) - Prints both the slides and notes.</li> <li>Notes are printed on a separate full page following the corresponding slide, with the slide number referenced on the note page.</li> <li>For multi-page notes, all of the note contents will be added to the note page. If necessary, the note text font</li> </ul>
	will be reduced to ensure all of the note contents are added to the note page.
Color mode	Adjusts the color settings of the printed slide to either <b>Pure black and white</b> , <b>Grayscale</b> , or <b>Color</b> .
	• This setting only affects how PowerPoint will send the file to the printer, not the actual printed output.
	<ul> <li>Setting the mode to <b>Color</b> will not necessarily print in color. To help ensure color output, check that the printer supports color printing and is set to print color.</li> <li>If printing to TIFF, set color reduction to <b>None</b> or <b>Reduce to optimal palette</b>.</li> </ul>

# Project

This category contains options for printing Microsoft Project documents to paper or converting them to TIFF or PDF.

### **Descriptions of configuration options**

Configuration options for Microsoft Project are described in the following table:

# **Option Description**

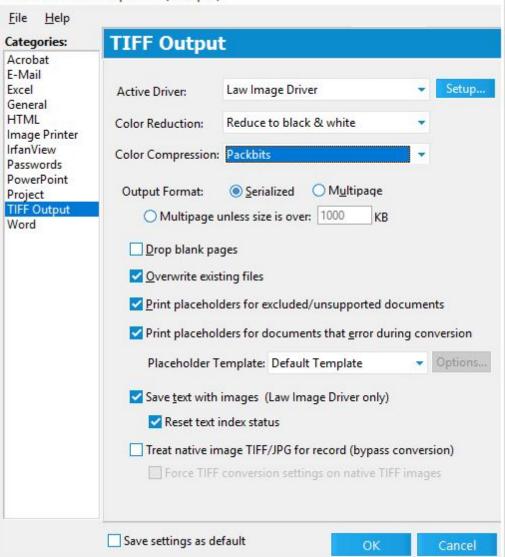
Orientati Use this option to select the orientation of the pages to be printed (portrait on or landscape).

Scaling	• <b>Auto-Size Columns</b> - Adjusts the sheet column sizes so the information contained within the columns is not "cropped" or hidden by an adjacent column.
	• Fit to Timescale - Forces the entire project for the selected timescale to fit onto one page when printed. Caution: This option may cause unreadab or extremely small font sizes if the timescale is long. This feature is not recommended if printing Project files with unknown content or large amounts of data.
Print	• <b>View</b> - Determines which project view is printed. When you are printing a Project document, you can print the Detail Gantt, Gantt Chart, or Task Sheet.
	If Task Sheet is selected in the View list, only the Notes check box is available for selection in the Print section, and the Fit Timescale check bo is disabled in the Scaling section.
	When a check box is selected in the Print section, the corresponding featur will be included in the output. When a check box is not selected in the Print section, the feature is not included in the output.
	• All Columns - Determines whether all sheet columns in the project are printed.
	• Legend - Determines whether the project legend is printed.
	• <b>Print first <n> columns on each page</n></b> - Determines whether the first columns in the project, such as the project line numbers and % Complete, are printed on each page. The text box determines how many of the first columns in the project are printed on each page. For example, if you type 3, the first 3 columns will be printed on each page. The minimum value for this setting is 0, which will act the same as disabling the setting (does no limit columns printed). The maximum value is 99.
	• Blank Pages - Determines whether blank pages are printed.
	• Notes - Determines whether the project notes are printed.
Sort	• <b>Sort [field name]</b> - Determines the field used to sort the project data the is printed. The project data can be sorted by: ID, Priority, Start Date, or Finish Date.
	• Sort [direction] - Determines the order the project data is sorted when

# TIFF Output

The TIFF Output category in the TIFF Conversion Options dialog box provides options specific to the TIFF formats.

```
TIFF Conversion Options (tiffopts)
```



- Active Driver. Stores the active TIFF printer driver. LAW currently supports the LAW Image Driver, and LAW Image Driver 300 DPI for TIFF files.
- ☑ The LAW Image Driver is renamed LAW Image Driver and LAW Image Driver 300 DPI is renamed LAW Image Driver 300 DPI in Version 6.18+.
- ✓ If you click the Setup button and configure the printer-specific settings for a print driver, the settings may not be retained for the TIFF batch process, regardless of

whether the **Save settings as default** check box is selected in the **TIFF Conversion Options** dialog box. Prior to printing, the printer-specific settings are reverted to defaults based on the TIFF Output options provided by CloudNine<sup>™</sup> LAW.

- The Informatik Image Driver is no longer included in LAW full installs for versions 5.2 and higher, but can still be used for batch and single document TIFF conversions. The Informatik Image Driver version 4.0 is not officially supported on Windows Vista. Limited technical support will be provided for this driver; the LAW Image Driver is the supported printer for TIFF conversions.
  - The Law Image Driver, based on the Zan Image Printer, is included in LAW full installs and can be used for batch TIFF conversion and single document TIFF conversions.
  - Unlike other supported drivers, the LAW Image Driver supports text extraction during conversions. Also included with the LAW full installer is the LAW Image Driver 300 DPI printer. The images created by this printer will always be forced to 300 DPI.
- **Color Reduction.** If you are converting native files to TIFF images, the 'Reduce to Optimal Palette' setting will cause the image to be saved as a color image or a black and white image based on the image color properties. If the image contains any color, then the TIFF image will be saved in a color TIFF format; if no color is found, the image will be saved as black and white. The 'Reduce to grayscale' setting will reduce color images or text to a grayscale format. If you are converting native files to PDF files, only the 'None' and 'Reduce to grayscale' selections are available in the Color Reduction list.
- **Color Compression.** The Color Compression setting allows users to specify the compression type of the produced images or PDF files. The most widely supported and more commonly used format is the JPEG or JPEG 2K (PDF only) compression format. This format will also produce the smallest file sizes compared to the other three formats. The Packbits (TIFF only), LZW (TIFF only), ZIP (PDF only) and no compression settings may also be used, but the file sizes will be larger than the JPEG formats and may not be viewable in the destination application.
- **Output Format.** LAW can produce output TIFF images in either single-page (serialized) or multi-page format. LAW stores the output TIFF images in the <case root>\\$Image Archive folder.
- **Multipage unless size is over.** (only available for TIFF conversion) Used for printing large files where documents may contain thousands of pages per document (text files for example). Use this feature to force those documents over a certain file size (in kilobytes) to be converted serialized instead of multi-paged.
- **Drop blank pages.** (only available for TIFF conversion) When the check box is selected, LAW will detect any blank pages created during the TIFF conversion and remove them from the output TIFF image.
- **Overwrite Existing Files.** When the check box is selected, during the TIFF conversion, LAW will overwrite any existing images that were created as a result of the TIFF Conversion batch process.

- **Print placeholders for unsupported/excluded documents.** When the check box is selected, LAW will print a placeholder image for any documents that were included for printing but did not have a source application assigned. See the "Placeholder Template" bullet below for more information.
- **Print placeholders for documents that error during conversion.** When the check box is selected, LAW will produce a placeholder image for any documents that received errors and could not be converted to TIFF files.
- Placeholder Template. The Placeholder Template list is only enabled when the Print placeholders for unsupported/excluded docs and/or Print placeholders for documents that error during conversion check boxes are selected. The Placeholder Template list contains a list of available document placeholder templates, and determines which template is used to generate document placeholders when the batch TIFF conversion process encounters a document that is excluded, has not been assigned a source application, and/or a document that receives an error.

If you want to use custom document placeholders or map which document placeholders to use for specific source applications, errors, or when no source application is found, in the **Placeholder Template** list, click **<Custom>**, and then click the **Options** button. Clicking the **Options** button opens the **Map Placeholder Templates** dialog box. In the **Map Placeholder Templates** dialog box you can map predefined and custom document placeholder templates. If you need to create or edit an existing custom document placeholder template, you can click the **Manage Templates** button in the **Map Placeholder Templates** dialog box to open the **Separator Page Options** dialog box, where custom document placeholder templates are created, edited, and deleted. For more information, see <u>Separator Pages</u>.

- If a predefined template is selected from the Placeholder Template list and there are document placeholder templates currently mapped in the Map Placeholder Templates, the predefined template selected in the Placeholder Template list will be used to generate all document placeholders for the batch TIFF conversion job. The predefined templates are: Blank, Default Template, Folder and File (Centered), Filename Only (Centered), and Filename Only (Lower left). For more information about template priorities, see Separator Pages.
- Save text with images. (only available for TIFF conversion with the LAW Image Driver) When the check box is selected, the LAW Image Driver will extract text from documents during the TIFF conversion process. This text can be viewed from the main LAW window. Select the document and then select the **Text** tab. Right-click the text and select **Open Text (Printed)**.
- ☑ Adobe PDF files are not supported for text extraction during TIFF Conversion.
- When the Save text with images check box is selected, printed text extraction will fail with the following warning when using Microsoft Internet Explorer version 9 as a source application for batch TIFF conversions: No text was extracted during the print operation (ErrCode=9504, Line=3750). The text can no longer get captured by the printer due to a change in version 9 of Internet Explorer by Microsoft. Using a previous version of Internet Explorer or Microsoft Word to print HTML, or performing OCR after printing, are possible workarounds.

Microsoft article that describes the issue: http://answers.microsoft.com/en-us/ie/forum/ie9-windows\_7/how-to-get-ie9-not-torender-web-pages-but-pass/46217d97-8729-42a2-9dcc-a83a9bf63480

- **Reset text index status.** (only available for TIFF conversion with the LAW Image Driver) Clearing the Reset text index status check box under the Save text with images check box will prevent LAW from re-flagging the document for indexing after the TIFF conversion and printed text is created. This means the printed text for affected records will not be searchable in CloudNine<sup>™</sup> LAW. See the Full Text Indexing topic for more information.
- Treat native TIFF/JPEG as image for record (bypass conversion). When the check box is selected, LAW will copy the native TIFF image, or JPEG from the \$EDD\\$NativeFiles folder and place it in the \$Image Archive folder. This feature saves time during TIFF conversion because it skips the printing process by making a copy of the native TIFF image, or JPEG instead of creating a new image using the LAW Image Driver.

By default, this feature applies to the following TIFF image file type IDs: 321, 298, and 146. These file type ID numbers correspond to the ID numbers stored in the file type database used by the ED Loader.

- Force TIFF conversion settings on native TIFF images. When the check box is selected, for TIFF conversion, LAW will apply the active color reduction, color compression, output format (multi-page or serialized), and drop blank pages settings to a copy of the native image. The modified image is then saved and moved into the \$Image Archive folder. This setting is useful for matching the image format of previously printed TIFFs which maintains the format consistency of the images throughout the case while using the treat native as image feature.
- If you are converting a large Adobe Acrobat PDF file (50 pages or more) to a TIFF file, during the PDF conversion process the "multiple jobs detected" warning may appear. Even if the warning appears, the PDF file will continue to be converted to a TIFF file.

#### Word

This category contains options for printing Microsoft Word documents to paper or converting them to TIFF or PDF.

In addition to the options you set in LAW for printing Word documents, their final appearance will also depend on the print settings as they are configured in the Microsoft Word application on the processing station.

TIFF/PDF Conve	rsion Options
<u>F</u> ile <u>H</u> elp	
Categories:	Word
Acrobat E-Mail Excel General HTML Image Printer IrfanView Passwords PowerPoint Project TIFF/PDF Output Word	<ul> <li>Do not print headers</li> <li>Do not print footers</li> <li>Force repagination before printing</li> <li>Log warnings for Word 95/6.0 documents</li> <li>Reveal hidden text <ul> <li>Fast Mode</li> <li>Normal Mode</li> </ul> </li> <li>Show comments</li> <li>Show revisions</li> </ul> <li>Field Replacements <ul> <li>Date/Time fields:</li> <li>Do not modify (Print as is)</li> <li>Filename fields:</li> <li>Do not modify (Print as is)</li> </ul> </li>
	Save settings as default OK Cancel

#### **<u>Settings</u>**

- **Do not print headers** Disables printing of headers contained within the Word document. This can be useful if the original document contains information in the header which is not desired in the printed output.
- **Do not print footers** Disables printing of footers contained within the Word document. This can be useful if the original document contains information in the footer which is not desired in the printed output.
- Force manual repagination before printing This option causes Word to repaginate itself before printing which can prevent the last line from running onto the next page in certain conditions.

- Log warnings for Word 95/6.0 documents This option is used to log a warning message for the purpose of reviewing these documents for possible formatting issues that can occur with some older Word documents. This makes it easier to isolate, QC, and optionally reprint all Word 95 documents if needed.
- **Reveal hidden text** This option will reveal text in the output TIFF, PDF, or hard copy that is not otherwise visible due to the text matching the background color (i.e., white text on a white background) or text matching the highlight color in the source document.
- The setting to reveal hidden text can increase the time required to complete printing of Word documents.

When the Reveal hidden text check box is selected, there are two options for running the Reveal hidden text feature:

- **Fast Mode.** By default, the Fast Mode is selected. Fast Mode is optimized for speed, and will force all text to black and background color to white to reveal hidden text. When Fast Mode is selected, a document is not tagged when hidden text is detected in the document.
- Normal Mode. Compares text color to background color for each word in a document to detect hidden text. This mode is slower than Fast Mode, but when Normal Mode is selected, a tag is applied to a document when hidden text is detected in the document.
- **Show comments** This option enables the printing of comments included in the Word document if present.

Printing of comments on the actual page where they occur is only available in Word XP and higher. In prior versions, the notes will be printed after the last page of the document.

• **Show revisions** - Some Word documents may also contain tracked changes which can be printed through LAW by selecting this option. LAW will only print the changes that have been made to the document if Track Changes has been enabled for the document.

#### Field Replacements

The Field Replacement options allow users to specify the actions LAW should take when encountering these types of dynamic fields in a document.

- **Date/Time Fields** This option allows selection of one of five actions: Do not modify (print as is), Do not print, Replace with date created, Replace with modified date, and Show field codes.
- **Filename Fields** This option allows selection of one of four actions: Do not modify (print as is), Do not print, Replace path from filename, and Show field codes.

Both of these settings are useful for preventing Word documents from printing current date or file path information which may only apply to the production machine and not to the project being printed.

# Tiffing Profiles

Function in Batch Processing for Tiff allows a user to create, edit, and delete imaging profiles with specific tiff settings.

Profiles created can customize options from these categories:

- Basic imaging engine options
- For each of the applications: Acrobat, E-Mail, Excel, General, HTML, Image Printer, PowerPoint, Project, and Word
- General and Passwords can also stored in a saved profile.
- Text Extraction options
- Placeholder options
- Creating a Tiffing Profile
  - 1. From the main window, in the Tools menu, click **Batch Process**. The Batch Processing dialog box opens.
  - 2. In the Options menu, click **TIFF Options**. The TIFF Conversion Options dialog box opens.
  - 3. Click the **File** menu

TIFF Conversion	Options	(tiffopts)
-----------------	---------	------------

<u>F</u> ile	<u>H</u> elp				
	<u>N</u> ew	IFF Output	t		
6	<u>O</u> pen				
H	Save F2	Active Driver:	Law Image Driver		▼ Setup
	Save <u>A</u> s	olor Reduction:	Reduce to black & v	white	
	<u>1</u> . tiffopts	Joior Reduction:	Reduce to black or v	white	·
	<u>C</u> ancel	olor Compression:	Packbits		•
Proj	Output	<ul> <li><u>D</u>rop blank part</li> <li><u>O</u>verwrite exist</li> <li><u>P</u>rint placehold</li> <li><u>Print placeholder</u></li> <li><u>Placeholder</u></li> <li><u>Save text with</u></li> <li><u>Reset text in</u></li> <li><u>Treat native interval</u></li> </ul>	unless size is over: 10 ges ting files ders for excluded/uns ders for documents the emplate: Default Ter images (Law Image 1	hat <u>e</u> rror during mplate Driver only) ord (bypass com	conversion <ul> <li>Options</li> </ul> version)
		Save settings as de	fault	ОК	Cancel

- 4. Then select **New** to create a new profile based on the default tiff settings.
- 5. Edit your settings as appropriate.
- 6. When settings are complete, click **File**, then **Save**. A Save As dialog opens. Select your profile filename and location and select **Save**.

# **Separator Pages**

When you are using batch processing for printing or e-printing, you can have LAW generate separator pages. Separator pages can help to organize paper copies of documents and folders. You can choose whether to have separator pages generated whenever a new folder is encountered during printing, acting as a folder break, or to have

separator pages printed instead of printing actual documents. For more information about the printing and e-printing options, see: <u>Batch Printing</u> or <u>Output Settings for E-Print, TIFF</u> <u>Conversion</u>.

When you are using batch processing for TIFF conversions, you can have LAW generate document placeholders. You can choose whether to have document placeholders generated for unsupported and excluded documents, and/or generated for the documents that could not be converted to TIFF and received an error during processing. For more information about the TIFF conversion options, see: <u>Output Settings for E-Print, TIFF</u> <u>Conversion</u>.

LAW comes with some predefined separator page and placeholder templates for the E-Print and TIFF Conversion processes. The predefined LAW templates are: Blank, Default Template, Folder and File (Centered), Filename Only (Centered), and Filename Only (Lower left). The predefined templates cannot be modified. You can also create and use custom separator page and placeholder templates for the E-Print, Print, and TIFF Conversion batch processes. You can map which separator page or document placeholder template is used for each source application, and which one is used when the batch process encounters errors or no source application.

For e-printing and TIFF conversion, you can also assign document placeholder templates to individual documents from the grid view and the Index tab on the main form using the Placeholder\_Name field. When a document placeholder template is assigned to a document in the grid view or on the Index tab, during the e-print or TIFF conversion process, the assigned document placeholder will automatically be generated instead of printing or converting the document to a TIFF file. For TIFF conversions in this scenario, after the TIFF conversion, the TiffStatus field for the document is set to P.

#### Placeholder template hierarchy for e-print and TIFF conversion

In LAW there are multiple places you can select the separator page or document placeholder templates you want to use for e-printing and TIFF conversion. If a separator page or document placeholder template is selected in multiple locations for a document, the following template hierarchy will be used by CloudNine<sup>™</sup> LAW:

1. Template is selected in the Placeholder\_Name field

A document placeholder template is selected for a document in the Placeholder\_Name field from either the grid view or Index tab on the main form. During e-print or TIFF conversion, the selected template will automatically be used to generate the document placeholder for the document instead of printing or converting the actual document to a TIFF or file.

2. A predefined LAW template is selected in the Template list for batch e-printing or the Placeholder Template list for batch TIFF conversion.

The Template list located under the E-Print options in the e-Print Options dialog box. The Placeholder Template list is located under the TIFF Output options in the TIFF Conversion Options dialog box.

3. <Custom> is selected in the Template list for batch e-printing or in the Placeholder Template list for batch TIFF conversion, and there are document placeholder or separator page templates mapped in the Map Placeholder Templates dialog box.

The mapped templates will be used to generate separator pages for e-print or document placeholders for TIFF conversion. If there is no template mapped to a row in the Map Placeholder Templates dialog, the predefined Default Template will be used for that row.

4. No template is assigned.

The predefined Default Template is used to generate separator pages and document placeholders.

If a separator page or document placeholder template is not mapped for a document or batch process, the predefined Default Template template is used to generate the separator pages or document placeholders for the E-Print, Print, and TIFF Conversion batch processes.

Custom separator page and placeholder templates are created and managed in the Separator Page Options dialog box, and can be created for individual LAW cases or all LAW cases. Separator page and document placeholder templates are mapped in the Map Placeholder Templates dialog box. The Separator Page Options dialog box is accessed by clicking the Manage Templates button in the Map Placeholder Templates dialog box.

		template>		
eader – ft section <b>A</b> F	on: ont: 'Tahoma' Size:	Center sec	tion: DOCUMENT INFO	Right section:
elds (Fi	-	·		Options Placeholder Type:
	Field Name	Display As	A Move	up File 🔻
✓	<name></name>	Name		
✓	<location></location>	Location	Move <u>d</u> o	
✓	<size></size>	Size		Synchronize Header/Footer setting
✓	<modified></modified>	Modified	<u>G</u> roup	p for all types
	BegDoc#		0.41	Margins (in twips, 1440 = 1 in.):
	EndDoc#		<u>S</u> ort Li	Top: 1800 Bottom: 1440
	_DocCat			Left: 720 Right: 720
	_DupID			
	_DupMethod		<b>v</b>	Vertical field spacing (in 500
C FInder  Do not print field names for blank values  Show comments field  UNSUPPORTED OR EXCLUDED FILE TYPE				Print Delays (in ms): Pre-print delay: Post-print delay:
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ooter — eft secti	001	Center sec	tion	Right section:
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#### ■ <u>To access the Separator Page Options dialog box</u>

Custom separator pages and placeholders are created in the Separator Page Options dialog box. You can access the Separator Page Options dialog box from three places in CloudNine<sup>™</sup> LAW: the E-Print options in the e-Print Options dialog box, Batch Print Options dialog box, or TIFF Output options in the TIFF Conversion Options dialog box.

# From the e-Print Options dialog box:

1. In the **Batch Processing** dialog box, click the **Options** menu.

2. In the **Options** menu, click **E-Print Options**.

Clicking E-Print Options opens the e-Print Options dialog box.

- 3. In the **Categories** list, click **E-Print**.
- 4. Select the **Print separator pages** check box.
- 5. In the **Template** list, click **<Custom>**.

Clicking **<Custom>** enables the **Options** button.

6. Click the **Options** button.

Clicking the **Options** button opens the **Map Placeholder Templates** dialog box.

7. Click the Manage Templates button.

Clicking the **Manage Templates** button opens the **Separator Page Options** dialog box.

#### From the Batch Print Options dialog box:

- 1. In the **Batch Processing** dialog box, click the **Options** menu.
- 2. In the **Options** menu, click **Print Options**.

Clicking Print Options opens the Batch Print Options dialog box.

3. Select the **Include separator pages** check box.

Clicking the **Include separator pages** check box enables the **Options** button.

4. Click the **Options** button.

Clicking the **Options** button opens the **Map Placeholder Templates** dialog box.

5. Click the Manage Templates button.

Clicking the **Manage Templates** button opens the **Separator Page Options** dialog box.

# From the TIFF Conversion Options dialog box:

- 1. In the **Batch Processing** dialog box, click the **Options** menu.
- 2. In the **Options** menu, click **TIFF Options**.

Clicking **TIFF Options** opens the **TIFF Conversion Options** dialog box.

3. In the **Categories** list, click **TIFF Output**.

- 4. Select the **Print placeholders for excluded/unsupported documents** and/or **Print placeholders for documents that error during conversion** check box.
- 5. In the **Placeholder Template** list, click **<Custom>**.

Clicking **<Custom>** enables the **Options** button.

6. Click the **Options** button.

Clicking the **Options** button opens the **Map Placeholder Templates** dialog box.

7. Click the Manage Templates button.

Clicking the **Manage Templates** button opens the **Separator Page Options** dialog box.

□ <u>To create a custom separator page or document placeholder template</u>

Both separator page and document placeholder templates are created in the Separator Page Options dialog box. In the Separator Page Options dialog box there is no distinction between creating custom separator page or custom placeholder templates. What determines if a template is a separator page or document placeholder template are the settings defined for the template and where the template is used. If a template is used for the batch printing or e-printing process, the template is used for generating separator pages. If a template is used for the batch TIFF conversion process, the template is used for generating document placeholders.

1. In the **Separator Page Options** dialog box, click the **Add New** button.

Clicking the Add New button opens the Add Placeholder Template dialog box.

Add Placeholder Template				
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2. In the **Placeholder Template** field, type the template name.

The following special characters are not allowed in template names: \ / : \* ? < > |

- 3. In the **Placeholder Scope** list, click one of the following:
  - All Cases. The custom template is available for selection in all LAW cases.

- **Current Case.** The custom template is only available for selection in the current LAW case.
- 4. Click **OK**.

Clicking **OK** closes the **Add Placeholder Template** dialog box and adds the new template to the **Placeholder** list in the **Separator Page Options** dialog box.

- 5. Make sure your new template is selected in the **Placeholder** list.
- 6. Configure the template header.
  - 1. To add text to the header of the separator page or placeholder header, enter text in the section you want the text to appear in the header.
    - Left section. Text is displayed on the left side of the header.
    - Center section. Text is displayed in the center of the header.
    - **Right section.** Text is displayed on the right side of the header.
  - 2. To customize the header text font, click the **A** button below the header fields.

Clicking the **A** button opens the **Font** dialog box.

- 3. Select the font options you want to use.
- 4. Click **OK** to save the font settings.

The font settings apply to all header text, regardless of which section the header text is located.

#### 7. Configure the template options.

The Options section of the Separator Page Options dialog box contains a number of features to allow further customization of the separator page or document placeholder template.

- **Placeholder Type** The Placeholder Type list determines the type of separator page and document placeholder.
  - File. Separator pages will print in front of e-documents imported via ED Loader, Turbo Import, or XML load file.
  - **Folder.** Separator pages will be printed each time a new folder is encountered and will apply to the E-Print and Print batch processes. The field selection will not apply to folder pages as the fields are only document-level or page-level. The folder path, in addition to the specified header and footer text, will be printed on each folder separator page.

- **E-Mail.** Separator pages will be printed in front of e-mail records and other store-based items including calendar items, contacts, tasks, journal entries, and notes.
- Attachment. Separator pages will be printed in front of any attachment records loaded into the case using ED Loader or Turbo Import and is based on the Attachment value found in the \_DocCat field.

The File, E-Mail, and Attachment placeholder types will also be used as placeholders for excluded/unsupported records or as an error placeholder during the TIFF conversion process.

The currently selected placeholder type is displayed in parentheses beside the Fields section heading just above the Selected Fields list for the e-print and TIFF conversion processes.

- Synchronize field settings for all types When enabled, the fields selected for the placeholder type currently selected in the **Placeholder type** list will be applied to the File, E-Mail, and Attachment separator pages and placeholders. Also applied with this setting are the following: field fonts, **Do not print field names for blank values** and **Show comments field** check box and text field settings.
- Synchronize Header/Footer options for all types When enabled, the header and footer information you enter in the Header and Footer sections of the Separator Page Options dialog box are applied to the separator page headers and footers across all files types.
- **Margins** The separator and placeholder margins can be modified by entering the desired values in the **Top**, **Bottom**, **Left**, and **Right** fields. The values should be entered as twips as indicated in the interface (1440 twips = 1 inch). The margin settings are unique to each placeholder type.
- Vertical field spacing (in twips) Use this setting to configure the amount of white space between fields on the separator pages and placeholders. The values should be entered as twips as indicated in the interface (1440 twips = 1 inch). This setting is unique to each placeholder type.
- **Print Delays (in ms)** The print delay settings can be configured to cause a delay before (**Pre-print delay** field) and after (**Post-print delay** field) pages print in an attempt to prevent a separator page from printing before a file and vice versa (i.e. separator, separator, file, separator). Certain printers rearrange jobs in the spooler causing the printing of smaller files first while larger files are still spooling. LAW cannot always prevent every occurrence of this behavior, but specifying a print delay can reduce the chances of this occurring. Enter values in milliseconds (1000ms=1 second) and test various values to determine what works best in your environment. The print delay values are unique to each placeholder type. The values will be forced to zero and grayed out when configuring placeholders for TIFF conversion.

#### 8. Configure the template field information.

The Fields section of the Separator Page Options dialog is used to determine which fields appear on the separator page or placeholder. The value selected in the Placeholder Type list in the Options section determines which fields are currently listed in the Selected fields list. The value currently selected in the Placeholder Type list is displayed in parenthesis next to Fields title in the Fields section. For example, if File is selected, the Fields section heading is displayed as Fields (File).

The **Fields** section is disabled when **Folder** is selected in the **Placeholder Type** list. This is because field information does not exist at the folder level.

Most system fields and all user-defined fields are available for selection in the Selected Fields list. The fields enclosed in chevrons < > are those derived from the Default Template for each placeholder type. Some of these fields display calculated or formatted values on the separator page or document placeholder to match the output displayed on the Default Template.

1. To add a field to the separator page or document placeholder template, select the **Include** check box for the field.

Any field with the **Include** check box selected is included in the template, any field with the **Include** check box not selected is excluded from the template.

The **Field Name** column displays the actual field name. The **Display As** field displays how the field name is displayed on the separator page or document placeholder. If the **Display As** field is blank, the name in the **Field Name** column is displayed on the separator page or document placeholder.

 If you want to change the field name displayed on the separator page or document placeholder, in the **Display As** column, double-click in the applicable field row, and enter the field names as you want it to be displayed.

To help you locate a field, you can sort the Selected Fields columns in ascending and descending order by clicking a column header.

To move a field in the list, click the field you want to, and then click the **Move up** button to move the field up one level or click the **Move down** button to move the field down one level.

Clicking the **Group button** groups all of the selected fields at the top of the field list.

Clicking the **Sort List** button sorts the fields in the list in alphabetical order in ascending order (A-Z).

3. During the batch printing, e-printing, or TIFF conversion process, if one of the fields selected in the **Selected Fields** list does not contain any data for a document, you can prevent the field name from being displayed on the separator

page or document placeholder by selecting the **Do not print field names for blank values** check box.

To have a selected field's name displayed on the separator page or document placeholder even if the field's value is blank, clear the **Do not print field names for blank values** check box.

The **Show comments field** check box determines whether a message is displayed in the **Comments** field on a document placeholder in the following scenarios:

- During the batch e-printing or TIFF conversion process, when the batch process encounters an unsupported or excluded file type, and document placeholders are generated for unsupported or excluded file types.
- When a placeholder template is selected for a document from the **Placeholder\_Name** field in the grid view or on the **Index** tab and the document is being e-printed or converted to a TIFF file.
- 4. In both scenarios, to have a message displayed on a document placeholder, select the **Show comments field** check box.

When the **Show comments field** check box is selected, the text in the **Show comments field** text field is displayed on the document placeholder in the **Comments** field. By default, **UNSUPPORTED OR EXCLUDED FILE TYPE** is displayed.

5. To change this text, click in the **Show comments field** text field, and enter the message you want to display on the document placeholders.

If you do not want the message to display on document placeholders in either scenario, clear the **Show comments field** check box.

6. To customize the field text font, click the **A** button below the **Show comments field** text field.

Clicking the **A** button opens the **Font** dialog box.

- 7. Select the font options you want to use.
- 8. Click **OK** to save the font settings.

The font settings apply to all selected field names and values and the **Show comments field** field text.

9. <u>Configure the template footer.</u>

- 1. To add text to the footer of the separator page or placeholder header, enter text in the section you want the text to appear in the footer.
  - Left section. Text is displayed on the left side of the footer.
  - Center section. Text is displayed in the center of the footer.
  - **Right section.** Text is displayed on the right side of the footer.
- 2. To customize the footer text font, click the **A** button below the footer fields.

Clicking the **A** button opens the **Font** dialog box.

- 3. Select the font options you want to use.
- 4. Click **OK** to save the font settings.

The font settings apply to all footer text, regardless of which section the footer text is located.

10. Click **OK** to save the template settings.

#### To map separator pages and document placeholders

For the batch print you can map with separator page template is used to generator separator pages during a batch print job. For e-print and TIFF conversion processes you can map which separator page or document placeholder template is used when the batch process encounters errors, no source specified (for excluded or unsupported files), or a specific source application. Templates are mapped in the Map Placeholder Templates dialog box.

The batch e-print and batch TIFF conversion processes use the same template mappings in the Map Placeholder Templates dialog box. It does not matter whether you performed the template mappings in in the Map Placeholder Templates dialog box from the e-Print Options dialog box or the TIFF Conversion Options dialog box, the mappings apply to both processes. For example, if you create a template for the Adobe Acrobat source application, and map it to the Adobe Acrobat source application, the Adobe Acrobat template will be used for generating separator pages or document placeholders for the Adobe Acrobat source application in the batch e-print and TIFF conversion processes, depending on which process is running and which settings were selected.

For batch print, the template mapping in the Map Placeholder Templates dialog box only applies to batch printing, and you can only access the batch print mappings in the Map Placeholder Templates dialog box from the Batch Print Options dialog box.

If a custom separator page or document placeholder templates is not mapped for errors, no source found, or a source application, the Default Template is used to generate separator pages and document placeholders.

# To map templates for batch e-print and TIFF conversion:

1. Open the **Map Placeholder Templates** dialog box from the **e-Print Options** or **TIFF Conversion Options** dialog box.

To access the **Map Placeholder Templates** dialog box, see <u>To access the</u> <u>Separator Page Options dialog box</u> in this topic.

 In the Template column, click the row associated with the <Error>, <No Source Specified>, or source application row to which you want to assign a custom template.

Clicking the **Template** column displays a dropdown list of available templates, including custom and the predefined LAW templates. In the template list, the predefined LAW templates names are displayed with the <> symbols. For example <**Filename Only (Centered)**>. At the top of the template list is a blank option. When the blank option is selected, the **Default Template** is assigned. Also, when a blank value is displayed for a row in the **Template** column, the **Default Template** will be used to generate separator pages or document placeholders for that row.

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IrfanView			
Microsoft Excel			
Microsoft Outlook			
Microsoft PowerPoint			
Microsoft Visio			
Microsoft Word			
Microsoft Project			
Native PDF Printer			
Quick View Plus			
Shell Printer			
Snapshot Viewer			
Text/RTF Printer			
VoloView Express			

 Click the template you want to use to generate separator pages or document placeholders for the associated <Error>, <No Source Specified>, or source application.

To apply a specific template to all rows, in the **Select Template** list, click the applicable template, and then click the **Apply To All** button. Clicking the **Apply to All button** adds the selected template to all rows in the **Map Placeholder Templates** dialog box.

Once you've applied a template to all rows, you can modify the template selection for individual rows, if needed.

4. When you are done assigning templates, click the **Save** button.

To create new or edit existing templates, click the **Manage Templates** button to open the **Separator Page Options** dialog box.

# To map a template for batch print:

1. Open the **Map Placeholder Templates** dialog box from the **Batch Print Options** dialog box.

To access the **Map Placeholder Templates** dialog box, see <u>To access the</u> <u>Separator Page Options dialog box</u> in this topic.

2. In the **Template** column, click the **Print** row.

Clicking in the **Template** column displays the list of available custom templates. At the top of the template list is a blank option. When the blank option is selected, the **Default Template** is assigned. Also, when a blank value is displayed for the **Print** row in the **Template** column, the **Default Template** will be used to generate separator pages or document placeholders.

- 3. Click the template you want to use for generating separator pages.
- 4. Click the **Save** button.

To create new or edit existing templates, click the **Manage Templates** button to open the **Separator Page Options** dialog box.

### □ <u>To edit a separator page or document placeholder template</u>

Only custom templates created in the Separator Page Options dialog box can be edited. The predefined separator page and placeholder templates that come with LAW cannot be edited or deleted.

- 1. Open the Separator Page Options dialog box.
- 2. In the **Placeholder** list, click the template you want to edit.

The template's information is displayed in the **Separator Page Options** dialog box.

3. If you want to edit the template's name or scope, click the **Edit** button.

Clicking the **Edit** button opens the **Edit Placeholder Template** dialog box.

4. Make the applicable edits, and then click **OK**.

If you renamed a template with the **All Cases** scope, clicking **OK** opens the following message:

[template name] is a shared placeholder, renaming will make it unavailable to the other cases until it is remapped. Would you like to proceed anyway?

5. Click **Yes** to save the name change.

If you changed the template scope from **All Cases** to **Current Case** the following message is displayed:

[template name] is a shared placeholder, changing the scope will make it unavailable to other cases. Would you like to proceed anyway?

6. Click **Yes** to save the scope change.

After changing the template scope from **All Cases** to **Current Case**, the template name is removed from the **Placeholder** list in the **Separator Page Options** dialog box and the template list in the **Map Placeholder Template** dialog box for other cases. If the template was mapped in the **Map Placeholder Template** dialog box for other cases, the template will be removed from the mappings and current mappings to the removed template will need to be remapped.

7. In the **Separator Page Options** dialog box, make the applicable edits, and then click the **OK** button or **Apply** button.

Clicking **OK** saves your changes to the selected template and closes the **Separator Page Options** dialog box. Clicking the **Apply** button saves your changes without closing the **Separator Page Options** dialog box.

 If you edited the template name and the template has been selected for mapping in the Map Placeholder Template dialog box, after clicking OK in the Separator Page Options dialog box, in the Map Placeholder Templates dialog box, remap the renamed template to the applicable row, and then click the Save button.

If you edited the template name and the template has been selected in the **Placeholder\_Name** field for documents in the grid view or main form, you will need to remap the renamed template to the applicable documents in the grid view or main form.

If the template scope is **All Cases** and the renamed template is mapped in other cases, you will also need to select the renamed template for the applicable source application, **<Error>**, and **<No Source Specified>** in the other cases.

If you forget to remap the template, when you click the **Save** button, the following message is displayed:

The placeholder template [template name] is either renamed or deleted. Please select a valid one from the list and proceed.

Click **OK**, and in the **Map Placeholder Template** dialog box, select the renamed template for the applicable source application, **<Error>**, or **<No Source Specified>**, and then click the **Save** button.

#### **To delete a separator page or document placeholder template**

Only custom templates created in the Separator Page Options dialog box can be deleted. The predefined separator page and placeholder templates that come with LAW cannot be edited or deleted.

If you delete a mapped template, you will need to remap the <Error>, <No source specified>, or source application previously mapped to the deleted template to blank or another template. If the deleted template was used for all cases, you will need to do this for all cases where the deleted template was mapped.

If you delete a template that was mapped to the Placeholder\_Name field for a document in the grid view or on the Index tab in the main form in CloudNine<sup>™</sup> LAW, when the template is deleted, the template will be removed from the Placeholder\_Name field in the grid view, but the template will not be deleted from the Placeholder\_Name field on the Index tab.

You will need to either remap the Placeholder\_Name field to another template in the grid view or main form or select the blank option at the top of the Placeholder\_Name list in the grid view or main form to clear the template selection from the Placeholder\_Name field on the Index tab in the main form.

- 1. Open the **Separator Page Options** dialog box.
- 2. In the **Placeholder** list, click the template you want to delete.

The template's information is displayed in the **Separator Page Options** dialog box.

3. Click the **Delete** button.

If the scope of the template is Current Case, clicking the **Delete** button opens the following message:

You are about to delete the [template name] placeholder. Would you like to proceed?

If the scope of the template is All Cases, the following message is displayed:

You are about to delete the [template name] placeholder. This is a shared placeholder, deleting it will make it unavailable to other cases. Would you like to proceed anyway?

- 4. Click **Yes** to delete the template.
- 5. In the Separator Page Options dialog box, click OK.

Clicking **OK** closes the Separator Page Options dialog box and returns you to the Map Placeholder Template dialog box.

 If the deleted placeholder was mapped to a source application, <Error>, or <No Source Specified>, select blank or another template for the applicable source application, <Error>, or <No Source Specified>. If the template scope was **All Cases** and the deleted template was mapped in other cases, you will also need to select blank or another template for the applicable source application, **<Error>**, and **<No Source Specified>** in the other cases.

7. Click the **Save** button.

If you forget to remap to blank or another template, when you click the **Save** button, the following message is displayed:

The placeholder template [template name] is either renamed or deleted. Please select a valid one from the list and proceed.

Click **OK**, and in the **Map Placeholder Template** dialog box, select blank or another template for the applicable source application, **<Error>**, or **<No Source Specified>**, and then click the **Save** button.

#### To configure separator pages for batch e-printing

1. In the main window, on the **Tools** menu click **Batch Process**.

Clicking Batch Process opens the Batch Processing dialog box.

2. In the **Options** menu, click **E-Print Options.** 

Clicking **E-Print Options** opens the **e-Print Options** dialog box.

- 3. In the **Categories** list, click **E-Print**.
- 4. Select the **Print separator pages** check box.
- 5. In the **Template** list select the template you want to use for the batch e-print job.
- 6. If you want to use custom or mapped separator page templates, click **<Custom>**, and then click the **Options** button.

Clicking the **Options** button opens the **Map Placeholder Templates** dialog box.

7. <u>Map the separator page templates</u> you want to use for batch e-printing.

To <u>create new</u> or <u>edit existing templates</u>, click the **Manage Templates** button to open the **Separator Page Options** dialog box.

- 8. After configuring separator pages for the e-print process, configure the tray settings in the Paper Source section.
- 9. If you only want to print separator pages, select the **Print separator pages only** check box.

When this check box is selected, only the separator pages for the selected documents are printed. The actual documents will not be printed.

For more information about the E-Print settings, see the <u>Output Settings for E-Print</u>, <u>TIFF Conversion</u> topic.

### To configure separator pages for batch printing

1. In the main window, on the **Tools** menu click **Batch Process**.

Clicking **Batch Process** opens the **Batch Processing** dialog box.

2. In the **Options** menu, click **Print Options**.

Clicking **Print Options** opens the **Batch Print Options** dialog box.

3. Select the **Include separator pages** check box and then click the **Options** button.

Clicking the **Options** button opens the **Map Placeholder Templates** dialog box.

4. <u>Map the separator page template</u> you want to use for batch printing.

To <u>create new</u> or <u>edit existing templates</u>, click the **Manage Templates** button to open the **Separator Page Options** dialog box.

5. If you only want to print separator pages, select the **Print separator pages only** check box.

When this check box is selected, only the separator pages for the selected documents are printed. The actual documents will not be printed.

6. If you want to print separator pages for folder breaks, select the **Print folder break separator pages** check box.

When this check box is selected, a separator page is printed each time a new folder is encountered while printing the selected documents. Folder breaks can be configured for a separator page template in the **Separator Page Options** dialog box. For more information, see <u>To create a custom separator page or document</u> <u>placeholder template</u> in this topic.

For more information about the Batch Print Options settings, see the <u>Batch Printing</u> topic.

#### To configure placeholders for batch TIFF conversion

These procedures apply to configuring placeholders for excluded/unsupported documents or documents that received errors during the <u>TIFF Conversion</u> process.

1. In the main window, on the **Tools** menu click **Batch Process**.

Clicking **Batch Process** opens the **Batch Processing** dialog box.

2. In the **Options** menu, click **TIFF Options**.

Clicking **TIFF Options** opens the **TIFF Conversion Options** dialog box.

- 3. In the **Categories** list, click **TIFF Output**.
- 4. Select one or both of the following check boxes:
  - Print placeholders for excluded/unsupported documents
  - Print placeholders for documents that error during conversion
- 5. In the **Placeholder template** list select **<Custom>** and then click **Options**.

The **Placeholder Template** list is enabled once the **Print placeholders for excluded/unsupported documents** and/or **Print placeholders for documents that error during conversion** check boxes are selected.

- 6. In the **Template** list select the template you want to use for the batch TIFF conversion job.
- 7. If you want to use custom or mapped separator page templates, click **<Custom>**, and then click the **Options** button.

Clicking the **Options** button opens the **Map Placeholder Templates** dialog box.

8. <u>Map the separator page templates</u> you want to use for batch e-printing

To <u>create new</u> or <u>edit existing templates</u>, click the **Manage Templates** button to open the **Separator Page Options** dialog box.

For more information about the TIFF Output settings, see the <u>Output Settings for</u> <u>E-Print, TIFF Conversion</u> topic.

#### To select placeholder templates from the grid view and main form

For e-print and TIFF conversion, document placeholder templates can be selected for individual documents in the grid view and on the Index tab on the main form in LAW using the Placeholder\_Name field. When a document placeholder template is selected for a document in the Placeholder\_Name field, if the document is being e-printed or converted to a TIFF file, a document placeholder will automatically be generated for the document. The document itself will not be e-printed or converted to a TIFF file. For TIFF conversions, the TiffStatus field for the document will be set to P, which indicates a placeholder was printed for the document.

#### To select a placeholder template from the grid view:

- 1. Open the grid view.
- 2. Add the **Placeholder\_Name** field to the grid view.

For more information about adding fields to the grid view, see the "To show or hide fields" section in the <u>Customizing the Grid View</u> topic.

3. In the **Placeholder\_Name** field, select the template you want to use for generating the document placeholder.

If you want to use the same template for multiple document in the grid view, you can use the batch update process to populate the **Placeholder\_Name** field for all the applicable documents.

For more information about the batch update process, see the "To batch update grid data" section in the <u>Grid Functions</u> topic.

# To select a placeholder template from the main form:

- 1. In the main form, navigate to the document for which you want to select a document placeholder template.
- 2. On the Index tab, scroll to the Placeholder\_Name field.

If the **Placeholder\_Name** field is not displayed on the **Index** tab, in the **Modify Fields** dialog box, select the **Visible** check box for the **Placeholder\_Name** field to add the field to the **Index** tab on the main form.

For more information about adding fields to the **Index** tab, see the "To show or hide fields" section in the <u>Customizing the Grid View</u> topic.

3. In the **Placeholder\_Name** field, select the template you want to use for generating the document placeholder.

# **Turbo Imager**

You can use the Turbo Imager batch process to convert native files to TIFF images or PDF files, or to reprocess files that are already in TIFF or PDF format. Turbo Imager generates near-native files (not true native). Since each file does not have to be opened and processed by the associated source application, Turbo Imager can generate images faster. This allows you to move into downstream workflows more quickly.

A Turbo Imager job can be run on Turbo Import, ED Loader, and Scan cases. It cannot be used on an Access case.

Turbo Imager jobs can be created in the following ways:

• From the Batch Processing window (Tools>Batch Process menu from the LAW Main window or Tools>Batch Process menu from the Grid View - see below)

• From the LAW Management Console (see <u>Creating Batch Jobs from the LMC</u>)

Turbo Imager processes files in this manner:

- For source PDF files, if TIFF output is desired, the file is loaded into VintaSoft and converted.
- For source email files, they are first converted to MHTML and then to PDF using Aspose. If TIFF output is desired, the PDF is then converted using VintaSoft.
- For all other file types, they are opened using Aspose and saved to PDF. If TIFF output is desired, the PDF is then converted using VintaSoft.

All metadata fields that the batch TIFF/PDF Conversion process updates are also updated by running Turbo Imager.

For a list of Turbo Imager supported file types, see <u>Supported File Types</u>.

#### To run a Turbo Imager batch process

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

ᅝ Batch Processing	×
Options	
Processes  Processes  Document Numbering  Page Document  Target <page id="">  Starting #  Document Processing/Analysis  Image Cleanup Deskew Black-Border Removal Hole Removal Noise Removal Noise Removal First page only OCR Print (Standard - Image Only) First page only OCR Print (ED - Native Files) Scan for Suspect Footers TIFF/PDF Conversion Turbo Imager Update Page Data</page>	Selected Documents  All Documents  Current Record Set  Selected Documents Select  Total: 144 docs  Sharing  Enable Distributed Batch Processing  Name: (Unassigned)  Type: CLOSED (No clients will join) Edit  Carter are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'  Refresh View
	Begin Cancel

- ▲ If **Turbo Imager** is disabled, please verify that you have a Turbo Imaging License, and that you are not working with an Access case.
- 2. Verify the Turbo Imager options you want. See <u>Turbo Imager Options</u> for more details.
- 3. Select the documents to run through Turbo Imager. For more information on selecting documents for batch processing, see <u>Selecting Documents for Processing</u>.
- 4. Click Turbo Imager.
- 5. Click **Begin**.
- 6. A message displays letting you know your batch job will be executed. Click OK.

Turbo Ir	nager batch job created	×
i	The specified Turbo Imager batch job will be executed in the backend by LAW service. The batch dialog will close and you can continue working ir LAW. You can view progress in LMC and errors in Log Viewer	n
	ОК	

Once your Turbo Imager job has been scheduled, you can continue working in LAW. Agents will pick up and perform conversion in the background. The number of agents that can process a Turbo Imager job is based on the number of licenses, CPU cores, and the MaxNearNativeImagingAgents case property.

You can monitor progress of a Turbo Imager job using the LAW Management Console. You can also cancel a Turbo Imaging job in the LMC. See <u>Using the LMC</u> for more details.

You can review any errors that may have occurred for your Turbo Imager job using the Log Viewer. See Reviewing Errors for more details. Turbo Imager Logs appear in the right-most tab of the Log Viewer. If Turbo Imager was unable to create a TIFF or PDF image, a placeholder image is generated instead.

Once your Turbo Imager job is complete, your images will be available in the **\$Image Archive** folder underneath the case folder.

• TIF files processed with Turbo Imager cannot be larger than 4GB.

✓ Turbo Imager will use a maximum of 10 agents. This will be limited to less based on the number of available cores in your environment and/or the number of licenses. If you have more than 10 licenses you will be able to run multiple Turbo Imager jobs in different cases at the same time.

#### Supported File Types

The following table lists the file types supported by Turbo Imager.

☑ Turbo Imager will only print visible content for Excel files. It is recommended that Excel files be imaged natively.

File Extension	Type of File
.pdf	Adobe Acrobat/Reader
.bmp	Bitmap Image
.emf	Enhanced MetaFile
.gif	Graphics Interchange Format
.ico	Icon
.jbig2	Joint Bi-level Image Group 2
.jpeg, .jpg	Joint Photographic Experts Group Format
.jp2, .jpc, .j2k, .j2c	JPEG 2000
.pcx	ZSoft Picture Exchange Format
.png	Portable Graphics Format
.tif	Tagged Image Format
.wmf	Windows Metafile
.xls?, .xlt?	Microsoft Excel
.ods	Apache OpenOffice Calc
.ppt?, .pps?, .pot?	Microsoft PowerPoint
.doc?, .dot?	Microsoft Word
.rtf	Microsoft Rich Text Format
.txt	Text File
.htm?	Hypertext Markup Language
.mht?	MIME HTML

File Extension	Type of File
.msg, .eml?	Microsoft Outlook
.csv	Comma Separated Value
.tsv	Tab Separated Value
.log	log file
.vsx, .vdx, .vtx, .vs?x, .vs? m, .vdw, .vsd, .vss	Microsoft Visio
.vst	Visual Studio Technology
.dwg	binary drawing
.dxf	Autodesk Drawing Exchange Format
.dwf	Autdesk Design Web Format
.svg	Scalable Vector Graphic

### **Turbo Imager Options**

From the Batch Processing dialog, select **Turbo Imager Options** from the **Options** menu to see the **Turbo Imager Options** dialog.

Image output type	Tiff	OPdf	
Color Reduction		<b>P</b> di	
Color Reduction	None	•	
Output format	<ul> <li>Serialized</li> </ul>	O Multipage	
Resolution	300	•	
Display date and time in emails using			
Timezone used during import			
Original Time	zone from email		
O Custom Time	zone		
(GMT-05:00) Eastern Time (US & Canada)			

- Image output type. You can select either Tiff or Pdf as your output type.
- Color Reduction. Select None if you do not want to do any color reduction, or select Reduce to black & white to save the image as black and white only.
- Output format. Turbo Imager can produce output Tiff images in either Serialized (single-page) or Multipage format. For Pdf conversion, Turbo Imager only produces PDF files in the Multipage format. When Multipage format is selected, each document will have its own TIFF or PDF file containing all the pages of the document in the single TIFF or PDF file. LAW stores the output TIFF and PDF files in the <case root>\\$Image Archive folder.
- **Resolution.** For **Tiff Image output type** you can select **300**, **400**, **500**, or **600** DPI resolution.
- Display date and time in emails using. This option is only for email files, and is specific to an imaging batch. This option allows you to choose the time zone to use when imaging email files. You can select Timezone used during import, Original Timezone from email, or Custom Timezone. If you select Custom Timezone you must pick the timezone to use in the dropdown. The ability to customize the timezone is an exclusive feature available only for Turbo Imager jobs.

Color images will use LZW compression and Black & White images will use CCITTGroup 4 compression.

Before closing the **Turbo Imager Options** dialog you can click the **Save settings as default** checkbox to save the selected settings for future Turbo Imager batches.

# Updating Page Data

There are some situations when Page level image information is missing:

- Ingesting via a load file that doesn't have generic image information
- Manipulating images in your case via operations like splitting or merging.

The Update Page Data batch process populates the PageColor, PageSize, PageWidth, and PageHeight fields for any images in the selected record set that are missing this information. Values held in the PageSource field are locked when images are acquired and are not affected by this process.

### To update page data

1. From the main form on the **Tools** menu, click **Batch Process**. The **Batch Processing** tool opens.

Processes         Document Numbering             Page          Document         Target <page id="">         Starting #         Document Processing/Analysis         Image Cleanup         Deskew         Black-Border Removal         Hole Removal         Noise Removal         First page only         OCR         Print (Standard - Image Only)         E-Print (ED - Native Files)         Scan for Suspect Footers         TIFF/PDF Conversion         Turbo Imager</page>	Selected Documents            • All Documents             • Current Record Set             • Selected Documents             • Selected Documents             • Total: 144 docs          Sharing             • Enable Distributed Batch Processing             Name: (Unassigned)             Type: CLOSED (No clients will join)             • There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh             Refresh
Update Page Data	

- 2. Select the documents to update. For more information on selecting documents, see <u>Selecting Documents for Processing</u>.
- 3. Select Update Page Data.
- Optionally, select Enable Distributed Batch Processing and configure the session as needed. For more information on using distributed batch processing see <u>Distributed</u> <u>Batch Processing</u>.
- 5. Click Begin.

### **Distributed Batch Processing**

Distributed processing is available for those batch types that do not require sequential execution. You can run distributed batch processes on these kinds of jobs:

- Image Cleanup
- Endorse

- OCR
- Scan for Suspect Footers
- TIFF Conversion
- Turbo Imager
- Update Page Data

For information on running these and other kinds of batch processes in a nondistributed manner, see: <u>Batch Processing</u>.

♀ When performing distributed processes, it is best practice to have all machines participating in the distributed processes running the same version of CloudNine™ LAW. Running distributed processes on machines with different versions of LAW may cause unexpected results.

### To start a distributed batch process

1. On the **Tools** menu click **Batch Process**. The **Batch Processing** dialog box opens.

- You can also run a query that will send results directly to a batch process. For more information see <u>Creating Queries</u>.
- 2. In the **Batch Processing** dialog box select documents to be processed.
- 3. Choose one or more batch type that is supported for distributed processing.
- 4. In the Sharing section of the Batch Processing dialog, select Enable Distributed Batch Processing.
- 5. Type a name for the batch over the default of **(Unassigned)**. The batch name is visible to other workstations when they are prompted to join a distributed job. The batch name is also visible in the LAW Management Console (LMC).
- 6. Click **Edit** to modify the invitation type. The **Create/Modify Invitation Type** dialog box opens.

Create/Modify Job Invitation	$\times$
View	
Invitation Type	
• Closed (No clients will join the job unless the invitation is edited)	
Open (All available clients are invited)	
<u>Restricted</u> (Available clients selected below will be invited)	
0 Limit no. of stations for the job (0 is unlimited)	
Scheduling	
Do not start job until after: 6 /17/2020 💌 3 :15:32 PM 🚖	Ē
Clients (For use with 'Restricted' invitation type)	
Server: <u>Accept</u> <u>Cance</u>	4

The invitation type determines how the job is handled by other stations when utilizing the LMC.

- 7. Select an invitation type.
  - **Closed.** (Default) None of the LMC instances will be able to auto-join LAW to the shared batch. LAW workstations can still be joined to the job manually.
  - **Open.** All LMC instances automatically join LAW to the shared batch.
  - **Restricted.** Only selected LMC instances will automatically join the process.

If you choose **Restricted**, select computers that can participate in the batch process from among available computers in the **Clients** area of the dialog box.

8. In the **Limit no. of stations for the job** field, enter the maximum number of work stations that can process data for the batch process job at any given time.

The **Limit no. of stations for the job** field defaults to **0**. When the **Limit no. of stations for the job** field is set to **0**, all available work stations will process data for the job.

- 9. Configure a scheduling restriction as needed. This option prevents the job from starting until after the date and time that you specify.
- 10. Click Accept.

After the shared batch is initialized on a machine, the job appears below the **Jobs** node in the LMC, and other LAW workstations can join the job.

11. Click **Begin** to start processing.

#### **<u>To join a distributed batch</u>**

- 1. After a distributed batch is started on a computer, open the case on a second computer.
- 2. On the **Tools** menu click **Batch Process**.

The **Running Batches** dialog appears. All active batches created in this case are listed. The batch may also be started by clicking View in the Batch Processing dialog in the Sharing section. This will launch the Running Batches dialog as well and allow users to choose a batch to join.

Running Batches			
File Edit View			
Name	Created	Processes	
DBP_FR	9/10/2010 2:2	OCR;TIFF	
			Join
<		>	Cancel
			11.

- ✓ If the Running Batches dialog does not immediately appear, click the Refresh button in the Sharing section of the Batch Processing dialog box. If a batch becomes available, click the View button to view the running batch.
- 3. Select a batch and then click **Join**.

LAW opens the next unprocessed document in the batch for processing using the same settings that were used on the computer that started the batch process.

When the batch completes it is removed from the Running Batches list.

☑ If you cancel a batch process running on one computer, the batch will not be canceled on other stations.

### **To join a distributed batch using LAW**

You can join a computer to a distributed batch process from within CloudNine<sup>™</sup> LAW.

- 1. Start CloudNine<sup>™</sup> LAW.
- 2. Opening the case that the distributed process is running on.
- 3. On the **Tools** menu, click **Batch Process**. The **Running Batches** dialog box appears.

🤹 Running Batc	hes		×
File Edit View			
Name	Created	Processes	
DBP_FR	9/10/2010 2:2	OCR;TIFF	
			Join
			Cancel
		>	
			1.

4. Select a batch and then click **Join**.

#### **<u>To delete a shared batch</u>**

- 1. Start CloudNine<sup>™</sup> LAW.
- 2. Opening the case that the distributed process is running on.
- 3. On the **Tools** menu, click **Batch Process**. The **Running Batches** dialog box appears.

🤹 Running Bate	hes		$\mathbf{X}$
File Edit View			
Name	Created	Processes	
DBP_FR	9/10/2010 2:2	OCR;TIFF	
			Join
			Cancel
		>	
			//

- 4. Select the batch in the **Running Batches** dialog box.
- 5. On the **Edit** menu click **Delete**.

The shared batch will be deleted from the list.

### Determining the computer that ran a batch process

You can review individual documents to determine which workstation executed the batch process.

- 1. From the main form in CloudNine<sup>™</sup> LAW, on the **Index** menu, click **Modify Fields**.
- 2. Scroll to **BatchStation**.
- 3. Select Visible.
- 4. Click **Save As**, name the profile, and then click **Accept**.
- 5. Click **Close**.
- 6. In the main form in CloudNine<sup>™</sup> LAW, select a document from the folder list.
- 7. Scroll to the **BatchStation** field.

The name of the computer that performed the batch process is listed.

# OCR

Optical character recognition (OCR) refers to the process of converting the printed text that can be found on a physical page or image file to machine-readable text. The text extracted from documents can then be indexed and queried.

The OCR batch process performs OCR on documents that are flagged as ready for OCR. The first step in performing OCR is to set the OCR flag status to ready for OCR.

# **OCR** Overview

Take into account the following considerations before performing OCR on documents:

- OCR does not offer perfect recognition of text. Accuracy can be reduced by many conditions, including:
  - Text appears skewed or uneven on the page.
  - Pages are dusty, folded, or torn.
  - Letters are faded, blurry or otherwise distorted.
  - Non-standard typefaces are used in documents.
- OCR is a CPU-intensive activity and can require significant time and computing resources to carry out large jobs. OCR processing speed is typically between 1 to 2 pages per second. However the actual processing rate depends on many factors, including:
  - Processing power and memory of computer performing OCR.
  - The number of computers involved in OCR processing. You can configure OCR processing to be distributed among multiple computers. For more information see <u>Distributed Batch Processing</u>.
  - The amount of text and other information on pages.
  - The quality of the original documents. Before you perform OCR on a batch of documents, consider applying filters to deskew, remove dust and lines, and clean up images in other ways.
- With the assistance of CloudNine Technical Support, you can use a run command to make searchable text obtained by the TIFF and/or OCR processes within LAW available in CloudNine<sup>™</sup> Explore. Please contact CloudNine Technical Support for instructions and assistance with this process.

### Determining if a document contains text

The Text display in the main interface will indicate the presence of text for the current document, which may be OCR text, text extracted during an import using ED Loader or Turbo Import, text imported with load file records or raw images, text pulled during a TIFF conversion, or text from the text file linked to the current document.

#### To choose the type of text to display

• In the **Text** display, right-click and then select a source type from the context menu.

When an image is selected, the **Text** button has a small "page" icon on it if there is text for that image, with the actual text displayed below the button.

WordPerfect and HTML formats cannot be displayed in this viewer. The Text display is for viewing purposes only. If a user needs to edit the OCR, simply doubleclick the text to launch the text in the editor registered for that file format. If there are multiple OCR formats for the same image, users can right-click on the OCR text and specifically select the format to open from a pop-up menu.

#### Determining OCR status

Text

CloudNine<sup>™</sup> LAW displays a green flag, yellow flag, or red flag, or no icon at all to the selected record, depending on the OCR status for that image. You can flag all, none, or selected pages only for the OCR process. (See the <u>Flagging Documents/Pages for OCR</u> topic for more details.) The OCR indicator gives users a quick visual representation of the OCR status for the current document. One of the following icons will be displayed on the **Text** button when a document is selected:

- Page icon, the OCR has been completed for the document (or text has been extracted using ED Loader or Turbo Import)

- Green flag, the document has one or more pages flagged for OCR

- Yellow flag, OCR process was cancelled while processing a document

- Red flag, error occurred during OCR

If no icon is displayed, no pages for the current document have been flagged for OCR.

### Performing OCR on documents containing redactions

When a redaction has been applied and saved to a document in CloudNine<sup>™</sup> LAW, the HasRedactions field is set to Y for the document, and the IsRedacted field is set to Y after merging the annotation for each page in the document containing a redaction. When you perform OCR on a document containing redacted text, the OCR process automatically omits the redacted text from the extracted text. Redactions do not have

to be manually merged with a document in order for the OCR process to omit redacted text.

The document-level HasRedaction field has 3 values:

- Y = Has a redaction (merged or unmerged)
- N = Does not have a redaction
- " "(empty or blank) = Unknown (Documents will default to the blank value when added or when opening an existing case.)

The page-level field IsRedacted is only updated when a redaction is merged.

Redacted text can also be omitted from documents during export without having to manually merge redactions with a document, by selecting the Enforce protection of redacted documents check box on the Advanced tab in the Export Utility dialog box. For more information, see <u>Advanced Tab</u>.

For more information about the HasRedaction and IsRedacted fields, see Field Descriptions - LAW.

For more information about redactions and other annotations, see <u>Annotating</u> <u>Documents and Pages</u>.

# Flagging Documents/Pages for OCR

OCR functionality in LAW is controlled by values that are assigned to two special OCR system fields. This topic describes these fields, the values each can assume, and how to view or re-assign values to these fields in order to review and control OCR operations. LAW also has a third OCR system field for tracking the document-level OCR accuracy for each case document.

### OCR fields

LAW maintains two fields in the database to track the status of pages with regard to OCR: OcrStatus and OcrFlag, and one field for tracking OCR accuracy: OcrAccuracy. These fields and their possible values are described in the following table:

Field and description	Possible values
OcrAccurancy	example: 10, 99, 100

Field and description	Possible values
The percentage of accuracy for the file's document-level OCR. This field will be blank for a document when the OCR was transferred from CloudNine <sup>™</sup> Explore.	
OcrFlag	$\mathbf{Y}$ = Page is flagged as ready for OCR
A page-level field that tracks the	$\mathbf{N}$ = Page is not flagged (will be skipped)
OCR status of each page of a document.	C = Page is complete
	<b>E</b> = Error occurred OCRing page
OcrStatus	$\mathbf{Y}$ = One or more pages are flagged as ready for OCR
A document-level field that	$\mathbf{N}$ = No pages are flagged
indicates the OCR status of a document.	$\mathbf{C}$ = OCR is complete on the document
	$\mathbf{I} = OCR$ was cancelled
	$\mathbf{E}$ = Error occurred during the OCR process
	$\mathbf{P}$ = Processing (special flag used by LAW during the OCR process)

In many cases, LAW assigns values to OCR fields automatically. For example, if you use ED Loader to import electronic discovery with text extraction enabled, records with extracted text should have OcrStatus of N and records with no text extraction should have OcrStatus of Y. Because you may still want to access the text of a document whose text extraction operation failed, LAW automatically assigns a Y to the OcrStatus field.

LAW uses the processing flag (P) to mark a document in the process of being OCR'd. This allows multiple workstations to OCR the same set of documents simultaneously without having to worry about overlapping OCR. Using multiple stations to share the OCR process provides an extra layer of redundancy. If one machine locks up or crashes during the OCR process, one or more other stations can continue to OCR that set of documents.

### To flag items manually

- 1. Select the pages to be flagged.
- 2. Do one of the following:
  - On the Page menu, click Flag for OCR.
  - Or

👦 LAW PreDiscovery® - Enron Sample Case				
	Open File	Index 🖓 Grid View		
Native File: 00010887.doc				
Native File: 00010887.doc		DocID 00010887	<b>_</b>	
		Custodian		
Real Party Instead	height of fail recruiting, and you know what that means. Would be Associates and Is are coming to Hisuaton to learn about threes and the oily while we get to know them, lost	EDSession		
Wath Wath	different this year? For starters, Analysi candidates new corns down for a Pantash: Priday views, amining Thanday right and starking through Banday I they choose. That gives			
Galiero Galiero Scovell	ations a character to see Elisson while it ready. "An real" This full "Antrivet": Pridays will feature Hanaken nights and a now twick on the traditional foor of Hoxacter. "As bocome a peterlo ger hant, "Gazenegers must prove their bus stopped at every Houston landmark by ng a photo.	EDSource		
page I Amod	also will be interviewed in the traditional Super Saturday formal.	EDFolder		
All our Chapp	ent program membres are welcome to participale. If you'd like to help, pixees call Angle all at ed. 5-1535.	ErrorMsg	\$	
First Page	alasde for Associate Cardobatee	PrevErrMsg		
Revious Page	advande der Analysel Candidation			
Next Page	onight) er and network, of course, but we thought we could use the monthly A&A	FileType 229		
page 2 🙀 Last Page	e about Exercity of Nevers business units and to do some good. That's why business units to represent the oversings and make saw their service measagers islands, too.	FileDescription MS Word 97-2003 Docume	nt (OLE)	
Goto Page	Saled is serviced, Oct. 14, all Brayly, which will be write the Juvenit Disbetion in III be grant provide Holiseven party - writes survey so come is costante, a cut priors. Play specificante a channol to bey "house" to mean emany for B <sup>6</sup> Andraining walk. Write Holiseven (I) Prevident and CEO of Errors (Brobal)	FileAccuracy		
Move Page(s)	scenoring the evening, is once again the lead supporter of the Enroy/JDRP hore to most and great you all.			
Flag for OCR	ind do serre good while you're hwing a good tims? (The November secial wil Food Barrix and the December event wil support Toys for Tots. We'll give you i finalized.)	≥ Profile: <default></default>	Update Clear	
Show OCR Flags	AS Benefit JDEF H Bergins om 5:30 pm. to 5:00 pm. Villege in Houston	🖌 📕 sanchez-m 🔺 🛛 ItemNo Ir	ngExt Pages Page Range DocID *	
page 3 <u>D</u> eskew	/ MBA Candidates culture and lotes, Enron expends its possibilities. We find some of our best of late, and this full has proved to be no exception. On Sept. 27 and 25, SHy.	All documents 🛃 0045 T	IF 2 000	
Enhance Image	inter members and commercial officers participated in the National Diack MBA kdo, Pila. Out of this roughly 5,000 MBAs there, 400 candidates submitted beneaved for the Prostam and for other labs within Encome. "We were one of	Calendar	IF 2 000	
<u>R</u> otate Pages	contro," slops Ted, excling that there was more awareness of Errors this year am expects to insite between 25 and 30 candidates to Buper Salurdays this	Discussion thread 🔂 💆 0047 🗔		
Properties	ram will travel to San Antonio to participate in the National Society of energy.	🔰 Inbox 😑 🔩 0048 TI		
		<ul> <li>Private Folders</li> <li>Sent Items</li> <li>0050 TT</li> </ul>		
		Description of the second s		
			•	
Page 2 of 3		<no detected="" scanner=""></no>	1.	

• Right-click on a page thumbnail and then click **Flag for OCR**.

### To flag multiple items

Resetting the OCR flags for multiple documents can be done in either of the following ways, depending on whether the documents are currently viewed in a folder or from a query.

	f all of the documents are in the ame folder	If the documents span multiple folders and can be logically grouped in a query
1.	Select the documents in the document list.	<ul> <li>In the grid display, on the Tools menu, click Reset OCR Flags and then click ON or OFF.</li> </ul>
2.	On the <b>Edit</b> menu, select <b>Reset OCR</b> Flags and then click <b>ON</b> or <b>OFF</b> .	

If you use the single-document OCR process, all pages are included regardless of the OcrFlag field value.

### To set OCR flags at scan time

• On the Scan menu, select Scan Options, and then click OCR All New Pages.

### Or

• In the status bar at the bottom of the main form, toggle the setting. Double-click **OCR(Y)** or **OCR(N)**.

Letter - 8.5 x 11 in 300 dpi Duplex OCR(Y) Rotation(90) Drop Blanks(N) Single-Page(N)

#### To display flagged pages

• On the Page menu, select Show OCR Flags.

In the thumbnail display, all pages flagged for OCR are highlighted. If the thumbnail display is not active when this function is selected, it automatically becomes active so that the thumbnails are shown. This function only highlights pages that are flagged for OCR. It will not highlight pages that have already been completed.

### **OCR Options**

You can specify various optical character recognition (OCR) options by doing one of the following:

• From the main window, on the **Tools** menu, click **Options** and then click the **OCR** tab.

Or

• From the <u>Batch Processing</u> utility, on the **Options** menu, click **OCR Settings**.

### OCR Engine

CloudNine<sup>™</sup> LAW supports two OCR engines:

- ExperVision OpenRTK
  - Is included with the LAW installer.
  - Is limited to one instance per machine.
- ABBYY FineReader
  - Installed separately from LAW and can be obtained by CloudNine when purchasing the ABBYY OCR license.
  - Supports Chinese, Japanese, and Korean (CJK) languages.
  - Can create PDF/A files.
  - Able to run multiple instances on a single PC, one instance per CPU core.

Options					
Imaging Indexing	Notifications Numbering OCI	R Preferences			
OCR Engine					
Page Layout	Auto Detect 🔹				
Quality	Normal 🔻				
Language	English 🔻				
Output Format	Chinese (PRC) Chinese (Taiwan) Czech				
Page Markers	Danish Dutch (Netherlands)				
Auto-Rotate	English Finnish French				
🔽 Overwrite ex					
🗸 Retain page l	Hungarian Italian				
Create PDF t	Japanese	imized PDF			
🔽 Reset text in	Korean Korean (Hangul)				
	Latin Norwegian (Bokmal)				
	Polish				
	Portuguese (Brazil) Portuguese (Standard)				
	Romanian Romanian (Moldavia)				
	Russian Spanish				
	Swedish	Cancel			

Version 6.18+

In version 6.18+, the ability to endorse in multiple colors was introduced. Endorsing in Silver, White, Lime, Aqua, Gray or Yellow colored fonts with a white background then OCRing with Expervision results with the endorsed text with the respective colors not extracted.
APRYX is able to OCR all of these colors except for White and Yellow.

ABBYY is able to OCR all of these colors except for White and Yellow.

Both engines support the creation of searchable PDF files and are able to produce < image >.ocr files, which are used in the Storm and IPRO applications for highlighting search hits on images.

Page Layout

These options improve OCR accuracy by specifying the layout of the pages.

- **Auto Detect** Automatically determines the layout of the page. This is the default option.
- Single Column Specifies that one column of text exists on a page.
- If email thread analysis will be performed on the case, the Page Layout setting must be Single Column. For existing cases with Auto Detect already selected, change the Page Layout setting to Single Column, re-run the OCR process, and then re-run the Near-Duplicate & Email Thread Analysis to accurately capture the case's email thread information.
- For the unsupported Xerox TextBridge engine, two special page layouts are available that can be used to OCR pages that are broken into even quadrants: "Quadrants, left to right" and "Quadrants, top to bottom." Both settings will OCR the page as if it were 4 separate pages condensed onto a single page. The left to right setting will OCR the 4 quadrants in the following order: upper left, lower left, upper right, lower right. The top to bottom setting will process in the following order: upper left, upper right, lower left, lower right.

#### Quality

Specifies the type of printing technology used to create the original documents and the print quality of the scanned pages.

- **Normal** Use this for pages printed with inkjet printers, laser printers, or offset lithography. This is the default.
- **Normal (Degraded)** The same as Normal, except that the print quality is known to contain some distortion or blemishes due to poorly printed originals, photocopying, heavy use, or aging.
- **Dot Matrix** Use this for pages printed using dot matrix printers, which include many early printer models as well as many types of printed receipts, such as from cash registers and ATM machines.
- **Dot Matrix (Degraded)** The same as Dot Matrix, except that except that the print quality is known to contain some distortion or blemishes due to poorly printed originals, photocopying, heavy use, or aging.

Note also the following when selecting a quality option:

- When a setting other than **Normal** is selected, OCR engine performance may be reduced.
- ABBYY FineReader engine supports a quality setting called Magnetic Ink Character Recognition (MICR). This is the technology used for the routing numbers on personal checks and for other documents designed to be machine readable.
- The Auto Detect setting with Xerox TextBridge OCR accommodates varying quality levels among originals.

### Language

The Language setting is used to specify the language dictionary the engine should use during the OCR process. If the correct language is not selected prior to the OCR process, the characters may not be recognized properly.

If ABBYY FineReader is the selected engine, English will automatically be used as a second language if a non-English language is selected. For example, if Greek is selected and both Greek and English exist in the source image, ABBYY FineReader differentiates the languages and performs recognition for both. However, if a document contains Greek, and English is selected as the language, Greek characters will not be interpreted or rendered correctly in the text. This only pertains to documents containing Unicode characters, such as Chinese, Japanese, Korean, Greek, or Russian. Languages that share many common characters in their alphabet, for example, English, Spanish, French, German, Dutch, and Portuguese will be interpreted correctly when existing in the same document if any of these languages are selected.

✓ The current ABBYY installer is available for download at <u>http://www.imagecap.com/installs/ABBYYEngine11.rev1.exe</u>.

Languages added to LAW will be available for selection from the Language list under the OCR settings dialogue. LAW will be able to recognize the OCR language during the OCR process and provide the ability to accurately search for the language characters in the OCR text.

For the unsupported Xerox TextBridge engine, the System Default setting uses whichever language is specified by Windows as the default.

### Output Format

This feature is used to select the output format produced by the selected OCR engine. The available output formats and licensing requirements are in the following table:

Output format	License required	
Smart Text Document	OCR (ExperVision OpenRTK)	
Standard Text Document	OCR (ExperVision OpenRTK) -OR- OCR (ABBYY FineReader)	
HTML	OCR (ExperVision OpenRTK)	

Output format	License required		
	-OR-		
	OCR (ABBYY FineReader)		
Word for Windows OCR (ExperVision OpenRTK)			
	-OR-		
	OCR (ABBYY FineReader)		
Word for Windows (2007)	OCR (ABBYY FineReader)		
WordPerfect	OCR (ExperVision OpenRTK)		
Adobe PDF (Normal)	dobe PDF (Normal) OCR (ExperVision OpenRTK) + OCR (ExperVision PDF add-on)		
-OR-			
	OCR (ABBYY FineReader		
Adobe PDF (w/	OCR (ExperVision OpenRTK) + OCR (ExperVision PDF add-on)		
Hidden Text)	-OR-		
	OCR (ABBYY FineReader)		
Adobe PDF/A (Normal)	OCR (ABBYY FineReader)		
Adobe PDF/A (w/ Hidden Text)	OCR (ABBYY FineReader)		

▲ If planning to export OCR results for searching functionality, using one of the text settings is recommended as most export formats do not support non-text OCR.

The Smart Text and Standard Text are essentially the same, both producing standard ANSI text output. See <u>Creating Searchable PDFs</u> for more information when using the Adobe output options to create searchable PDF files.

### Page Markers

This option allows LAW to "stamp" the resulting OCR with a Bates number or page value using information retrieved directly from the LAW database. This feature is useful for providing 100% accurate Bates values in the OCR text to aid searching in certain applications.

Page Markers can be customized via the law50.ini file located in the C:\Program Files (x86)\Law50 directory. By placing the PageStampText= section under the [OCR] key, the text stamped by the Page Marker feature can be customized. Currently supported fields are:

&[Page] - Current page
&[Pages] - Page count
&[Page ID] - Bates number
&[BegDoc#] - Beginning document number
<CR> - Carriage return (new line)

### **Example**

The following page marker: PageStampText=###&[Page]|||Page &[Page ID]^^^

Results in a stamp of: ###1|||Page ABC0001^^^

This value increments for each OCR page stamped.

### Auto-Rotate

This option specifies if the OCR engine should automatically rotate images for the OCR output. The three options are:

- Always ON
- Always OFF
- **Binary Images Only** Auto-rotates monochrome (black and white) images. This option can help to prevent color and grayscale images that have little or no text from being improperly rotated. This setting is available with the ExperVision engine.

### Overwrite existing files

Use this setting to prevent or allow the replacing of existing OCR text. This feature is useful if some documents already contain usable OCR text files and the only the files that do not contain an existing text file should be included for processing. If an existing text file is detected for the current document, the OCR engine will skip the document and move onto the next, thus saving processing time. It may also be necessary at times to replace all existing text files; checking this option will replace the OCR for each document.

### Retain page layout

This setting determines whether the layout of the page (columns, etc.) will be preserved in the OCR results (non-text output formats only).

### Create PDF thumbnails

The OCR engines automatically create thumbnails during the Searchable PDF creation process. Use this setting to set the "visible" property of the thumbnails when opening

the PDF file in Adobe Acrobat. If this setting is checked, the thumbnails will be viewable automatically in Adobe Acrobat; otherwise, the thumbnails will be hidden under the Pages tab in Adobe Acrobat.

#### Reset text index status

Clearing the Reset text index status check box will prevent LAW from re-flagging the document for indexing after the OCR process is performed. This means the OCR text for affected records will not be searchable in CloudNine<sup>TM</sup> LAW. See the Full Text Indexing topic for more information.

#### Auto deskew

Enable this option to force the OCR engine to deskew the image before OCRing the document. This can often lead to more accurate OCR (depending on the type of document). However, if the document contains graphics or angled vertical lines, the deskew feature may align to these graphics and cause unexpected results. Disabling this option will OCR the document with its current orientation. This feature is only available if the ExperVision OCR engine is selected.

#### Retain pictures

This setting determines whether pictures in the original will be preserved in the OCR results. This setting does not affect the results if the output format is set to text. Pictures are not retained in text files.

#### Create web optimized PDF

This setting only applies to the ExperVision OpenRTK OCR engine and the Adobe PDF (Normal) and Adobe PDF (w/ Hidden Text) output format options. When the Create web optimized PDF check box is selected, the output PDF files will have the Fast Web View setting enabled in the PDF files. The Fast Web View setting provides page-at-a-time downloading from web servers, instead of downloading the entire PDF from web servers.

### Performing OCR

The OCR process can be performed at the document level, page level, or by region.

Before performing OCR on any documents in CloudNine<sup>™</sup> LAW, verify that the <u>OCR Options</u> have been set to ensure the proper output format. For example, if planning to export documents into a retrieval application that uses OCR text for searching, select standard or smart text as the output format.

OCR should be performed after document boundaries are fixed. For any non-text format, LAW may not be able to merge or split the OCR files if document boundaries change after the OCR has been created. If the OCR files cannot be modified, the OCR process will need to be run again on the document(s) in the modified range.

### Single document OCR

### To OCR a single document or pages of a single document

- 1. Open the document to OCR.
- 2. Press CTRL+O.
- 3. If the **File Already Exists** dialog box opens, click **Yes** to rescan the file and overwrite previously extracted text, or press **No** to cancel the OCR operation.

### To OCR only certain pages of a document

- 1. Select the pages to OCR in the thumbnails display.
- 2. Select a page.
- 3. On the **Tools** menu, click **OCR**, and then click **Document**.
- 4. If pages of the document have already been flagged for OCR, select **Page** and then click **Show OCR Flags**.
- 5. The flagged pages are selected.

See <u>Flagging Documents/Pages for OCR</u> for more details.

6. On the **Tools** menu, click **OCR** and then click **Selected Pages**.

<u>Multiple document OCR</u>

To OCR multiple documents, run the OCR process from the <u>Batch Processing</u> utility. During batch processing, only documents and pages flagged for OCR will be included in the OCR results. For more information flagging documents for OCR, see <u>Flagging</u> <u>Documents/Pages for OCR</u>.

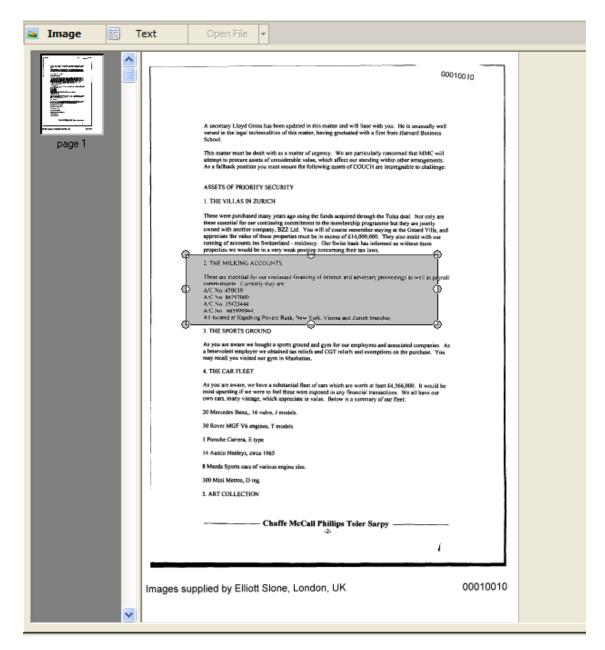
1. From the main window, on the **Tools** menu, click **Batch Processing**.

- 2. In the **Processes** area, select **OCR**.
- 3. On the **Options** menu, click **OCR Settings**.
- 4. Configure OCR options as needed. For more information on OCR settings see <u>OCR</u> <u>Options</u>.
- 5. Click **OK** and then click **Begin**.

### To OCR a page region

Another available option is to OCR a specified region of an image. This feature is useful for coding information directly from a document to a field without having to retype it.

- 1. With a page open in the **Image** tab, press and hold the CTRL key.
- 2. Drag the mouse over the image to create a resizable rectangle.
- 3. Release the mouse.
- 4. Resize and move the rectangle selection tool as needed. To remove the highlight, press ESC or open a different document.



5. Right click the rectangle selection and then click **OCR Region**.

	This matter must be dealt with as a matter of urgency. We are particularly concerned that MMC will attempt to procure satist of considerable value, which affect our standing within other arrangements. As a fallback position you must essure the following assets of COUCH are impregnable to challenge: ASSETS OF PRIORITY SECURITY 1. THE VILLAS IN ZURICH	OCR Results
6	These were purchased many years ago using the fands acquired through the Tuba deal. Not only are twee sessial for our contrasting committeent to the membership programme but they are jointly owned with onattier company. Begin 2012 U. You will decause researchest traving at the Caledra Villa, and appreciate the value of these properties must be in scores of 214,000,000. They also assist with our programme but the intervent in the intervent of the Society and the score programme but the score of 214,000,000. They also assist with our programme but the intervent in the society of the Society and the score of 214,000,000. They also assist with our programme but the score of 214,000,000. They also assist with our programme but the intervent in the score of 214,000,000. They also assist with our programme but the intervent in the score of 214,000,000. They also assist with our programme but the intervent in the score of 214,000,000. They also assist with our programme but the intervent in the score of 214,000,000. They also assist with our programme but the score of 214,000,000. They also assist with our programme but the intervent in the score of 214,000,000. They also assist with our programme but the score of 214,000,000. They also assist with our programme but the score of 214,000,000. They also assist with our programme but the score of 214,000,000. They also assist the score of	A/C N~ 450039 A/C N~ 86797000 A/C N~ 35423444 A/C N~ 465999944 All located = Hapsburg P~v=e Bank, New York, Vienna and Zurich b~nch~.
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- 6. In the **OCR Results** dialog box, select options for working with the text:
  - Copy results to the clipboard Copies the text to the system clipboard. Use this
    option if you want to paste the text into a different program.
  - Send results to an index field Copies the text to an index field of your choosing.
  - **Parse results into Name/Value pairs** Extracts name/value pairs from the selected area.
- 7. Click **OK**.

#### Where OCR files are stored

During the OCR process, LAW generates and saves an OCR and OCR TXT file for each document OCR is created for. The LAW version a case is created in determines where the OCR and OCR TXT files are stored for a case, including OCR text files that are imported into a case.

• For cases created in LAW 6.8.x or earlier, the files are stored in the case's document directory.

For example:

If a case has the following directory for an Inbox folder: C:\Cases\[case name] \[PST folder name]\[mailbox folder name]\Inbox, when you perform OCR on the files in the Inbox folder, the OCR files will be stored in the same Inbox folder directory for the case. • For cases created in LAW 6.9.x or later, the files are stored in the case's \$OCR directory.

For example:

### C:\Cases\[case name]\\$Text\\$OCR

✓ Cases created in LAW version 6.9.x and later support OCR files located in long folder paths (paths exceeding 256 characters).

Cases created in LAW version 6.8.x or earlier do not support OCR files located in long folder paths.

The naming convention used for the OCR files is the same naming convention used for native files without the "ntv" in the file names.

An example of a native file name is 00003335.ntv.pdf. An example of the files names for the OCR files generated for a document: 1132.ocr and 1132.txt. The OCR and OCR TXT files generated for a document have the same file name, but different file extensions.

# **Creating Searchable PDFs**

You can create searchable PDF files in the same process as performing OCR. This feature requires one of the following license configurations:

- OCR (ExperVision OpenRTK) + OCR ExperVision PDF add-on
- ABBYY FineReader license for CloudNine™ LAW
- ▲ Version 6.18+ allows color endorsements. Some lighter colored fonts will not appear in the searchable pdf (for example white, yellow, silver, aqua, and lime.

After the searchable PDF files are created, those records will have:

- An associated image file.
- A text file containing the OCR text of the document.
- An .OCR file that contains coordinates for on-image hit highlighting in Storm and IPRO.
- A PDF+ file. The PDF+ file is the searchable PDF.

To configure OCR for searchable PDF

Prior to creating the searchable PDF files, verify that the required settings are selected.

- 1. In the main window, on the **Tools** menu, click **Options** and then click the **OCR** tab.
- 2. In the OCR Engine list select either ExperVision OpenRTK or ABBYY FineReader.
- 3. Set the **Output Format to Adobe PDF (w/Hidden Text)** or **Adobe PDF/A (w/ Hidden Text)**. PDF/A is only available if the ABBYY FineReader engine is selected.
- 4. If necessary, select **Create PDF thumbnails**. Use this setting to set the visibility property of the thumbnails when opening the PDF file in Adobe Acrobat. If this setting is checked, the thumbnails will be viewable automatically in Adobe Acrobat; otherwise, the thumbnails will be hidden under the **Pages** tab in Adobe Acrobat.
- 5. Click **OK**.

### To export searchable PDF files

- 1. On the **Tools** menu, click **Export Utility** and then click the **Formats/Documents** tab.
- 2. In the Formats list, select PDF Conversion.
- 3. Select Multi-Page.

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Selected Types: All Records	O All Documents			
✓ Include Images	O Search Results			
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✓ Include Native Files	Total: 476 docs / 460 pages			
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Single-Page  Multi-Page	Single+age Multi+age			
Cancel	< Back Next > Finish			

- The single-page option creates single-page PDF files that are not searchable. The "Include Full Text" option does not need to be selected. Provided the previous instructions were followed and the Output Format on the Options tab of the Export Utility is set to "PDF" (and not "PDF (Image Only)"), LAW will export searchable PDF files.
- 4. Set the remaining export options according to the specifications for the project. See <u>Export Utility Overview</u> for additional information about the Export Utility.

For more information on PDF export options, see <u>PDF Conversion</u>.

# Managing Distributed Processes

The LAW Management Console (LMC) is the utility you use to manage processing jobs that are distributed among multiple computers. You can enable distributed processing for ED Loader sessions as well as other kinds of batch processing jobs.

# LMC Overview

The LAW Management Console (LMC) is a utility that you use to manage distributed processes for electronic discovery and for certain kinds of batch jobs. A distributed process pools the processing power of multiple computers to get large processing jobs done faster.

To start a distributed process you use <u>ED Loader</u> for distributed electronic discovery; you use the <u>Batch Processing</u> utility for batch processing. After starting a distributed process of either type, you use the LMC to manage participating computers and to monitor progress.

- ♀ When performing distributed processes, it is best practice to have all machines participating in the distributed processes running the same version of CloudNine™ LAW. Running distributed processes on machines with different versions of LAW may cause unexpected results.
- $\blacksquare$  In this section of help topics, the term *client* represents a workstation that is running LMC.

### LMC Capabilities

After a distributed process is started, you use the LMC to monitor and manage computers, processing jobs, and licenses. Specifically, you can use the LMC to perform the following tasks:

### Running and managing jobs

- Start or end distributed processes.
- Join computers to distributed processes.
- Force unresponsive computers to leave jobs.

### • Monitoring

- Monitor overall progress of a job.
- Detect whether a computer joined to a job is working normally or appears unresponsive.
- Monitor jobs in queue or currently running.
- View license keys in use by client computers involved in processing.

- If The LAW Management Console (LMC) does not show licenses are in use when OCR is being performed within CloudNine<sup>™</sup> Explore. Licenses in use may be viewed in the LAW Profile Manager as an alternative.
  - View connection state to SQL Server.

### • Logging

• Maintain logs for errors, messages, and debugging information.

### <u>Requirements</u>

When planning to use the LMC, consider the following requirements:

- Each client that will participate must be running LAW and the LMC. LAW versions 5.3.14 and above include the LMC.
- The LMC runs with cases based on versions of SQL Server.
- Each client that will participate in a batch process must be able to connect to the same SQL Server instance that was used to create the case.

# Starting the LMC

The steps required to start LAW Management Console (LMC) depend on whether LMC has been started before on a client, and if so, whether the LMC was configured to connect to a SQL Server instance. Independent of these factors, the steps to start the LMC also depend on whether LMC is currently running in the background and if you have already established a connection between LMC and SQL Server.

The LAW Management Console will use the SQL Server configured as the Management Database via the LAW Configuration Utility.

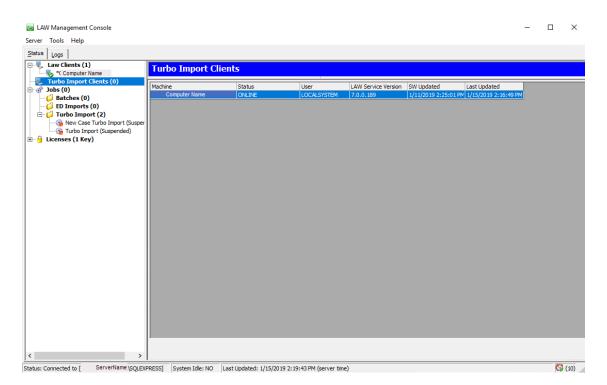
### Starting LMC for the First Time

1. Use Windows Explorer to browse to the path that contains the LMC executable file. By default, file path is:

# C:\Program Files (x86)\Law50\Console\

2. Double click **LAWConsole.exe**.

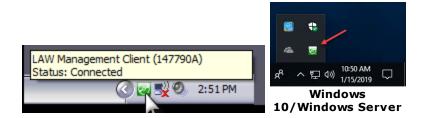
The LAW Management Console screen appears.



3. The LMC is configured through the LAW Configuration Utility. It will use the same SQL server that is configured as the Management Database.

### To Open LMC

1. Mouse over the LMC icon located in the Windows notification area.



2. Click the LMC icon or right click the icon and then click Restore.

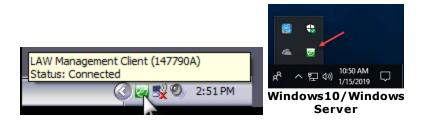
The LMC starts.

- If necessary, log on to an instance of SQL Server.
- If the LMC icon is not visible in the Windows notification area, see the previous section in this topic **To start the LMC for the first time**.

### LMC in the Notification Area

You can use the LMC icon in the Windows notification area to restore the LMC, stop the LMC, or perform a quick check of its connection status to SQL Server.

1. Mouse over the LMC icon located in the Windows notification area.



2. Perform the following tasks as needed:

Task	Steps
Restore the LMC.	• Click the LMC icon.
	Or
	• Right-click the LMC icon and then select <b>Restore</b> .
Stop the LMC.	• Right-click the LMC icon and then click <b>Quit</b> .
	Or
	• Press ALT+F4 while the LMC is in focus.
Check the connection status of the LMC to SQL Server.	<ul> <li>Mouse over the LMC icon to view the tool tip.</li> </ul>

### To configure LMC to start with Windows

- 1. Start CloudNine<sup>™</sup> LAW.
- 2. From the main window, on the **Tools** menu, click **Options**, and then click **Preferences**.
- 3. Select the Start the Management Console on Windows Startup check box.

Options					
Imaging	Indexing	Notifications	Numbering	OCR	Preferences
Ad	d all new lis	st field values to	list on update	2	
🗌 All	ow selectio	n of multiple lis	t items		
:	Separator c	haracter ;			
🗌 Au	to-advance	after updating	a document		
Ca	lculate tota	l pages in batch	/export dialog	Is	
🛃 En	able SQL Se	rver/SQL Expres	ss support		
🗌 Lin	ik to source	files in place w	hen importing	load files	
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Re	fresh duplic	ate status after:	deleting recor	ds	
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4. Click **OK**. Click **Yes** if you are prompted to start the LMC.

The LMC starts. Every time you restart Windows, the LMC will also start automatically but run minimized. You can then restore the LMC by selecting its icon in the Windows notification area.

# Using the LMC

You use the LMC to monitor client computers, jobs, and licenses in use. You can also use the LMC to help manage clients and jobs.

Client management tasks:

- Force computers to leave a batch process or distributed electronic discovery loading session.
- End a batch process or distributed electronic discovery loading session.

Jobs management tasks:

- Cancel a job for all clients.
- Change the type of invitation for a job to control which computers will participate in a job.
- Prioritize Turbo Import cases for importing and Turbo Imaging jobs.

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## Preparing to join computers to a distributed process

The LMC can join computers to a shared job. LAW will launch, open the SQL case, and begin processing the job without user interaction. Jobs will be joined in the order in which they were created, but are sorted visibly by name under the **Jobs** node.

The following conditions apply when joining a client computer to a shared job:

- LAW must not be running on the client.
- The LMC must be running on the client.
- The LMC must be connected to the same SQL Server as all other computers participating in the process.
- The LMC only runs when the client computer is left in an idle state.

The idle state is how long the system has processed no keyboard or mouse movement for a specified number of seconds. You can set the number of seconds value in the LMC on the **Tools** menu. Click **Options**, and then **General**. In the **System Idle Timeout** field change the value to a number greater than 0, which represents the number of seconds. When the workstation is idle in the LMC, the second panel in the status bar changes to **System Idle: YES**. The LMC will attempt to join a job provided all other criteria have been met.

- The client must not be in the **Excluded Clients** list for a job.
- The job status must be **Active**.

#### To view client, job, and license details

- 1. Start the LMC and if necessary, connect to a SQL Server instance. For more information, see <u>Starting the LMC</u>.
- 2. Expand a node under **Law Clients**, **Turbo Clients**, **Jobs**, or **Licenses** and then click an item.

The node expands and the right pane provides details for the client, job or license that you select.

## To work with clients

- 1. Start the LMC and if necessary connect to a SQL Server instance. For more information, see <u>Starting the LMC</u>.
- 2. By default the **Law Clients** node is selected with a table listing of clients populating the right panel.
  - Law Clients is followed by a number in parentheses. This number represents the total number of clients (workstations running the LMC) connected to the same SQL Server and visible to the current instance of the LMC.
  - The computer name preceded by an asterisk (\*) is the computer on which you are running this instance of the LMC.
  - You can identify a client as unresponsive if the client name appears in **bold red** text. If you hover over the client name you will see a tooltip "<Client Name> does not appear to be responding".
- 3. In the **Clients** table located in the right hand part of the window, each computer currently connected to the SQL Server is listed in a row. Fields in the list are:
  - **Computer**. The name of the computer.
  - **Running**. **True** if CloudNine<sup>™</sup> LAW is running or not, otherwise **False**.
  - User. The Windows user name currently logged into the computer.
  - LAW Version. The version of LAW running on the computer.
  - Case. The name of the case open. This field is blank if no case is open.

- **Status**. ONLINE if not running a job but available. WORKING if running a batch process. If a client status is listed as WORKING but the client is listed in the Clients list to the left in bold red font, this means the client has stopped responding and might need to be removed from the job and restarted. STARTING if starting a job. CANCELLING if leaving a job unfinished.
- **Job Name**. The name of the distributed batch process that the computer is running. This field is blank if the computer is not running a job.
- Last Updated (Server Time). The last time the client status was checked by LMC. By default each client status is updated every 10 seconds.
- 4. Select a client from the list and then, if necessary, click one of the following buttons:
  - **Screenshot** Creates and opens a picture of the current Desktop of the client. This tool is useful for monitoring the state of the workstations when processing jobs or preparing to process jobs.
  - Leave Job Removes the client from the job that it is currently working on. When a workstation is forced to leave a job in this manner, the client is added to the Excluded Clients list for the job it was working on.
  - End Process Stops the job that the client is currently working on.
- 5. Expand the **Clients** node and then click a client name.

The node expands and the right pane provides details about the selected client.

- **Status** Displays the status of the current workstation. Possible values are: ONLINE, STARTING, WORKING, or CANCELLING.
- **User** Displays the user currently logged in on the workstation.
- Workstation Displays the machine name of the selected workstation.
- **IP Address** Displays the IP address of the workstation.
- **Console Version** Displays the version of the LAW Management Console. Typically, this version should match the LAW version shown in the **Clients** section.

## **To work with Turbo Clients**

- 1. Start the LMC, connecting to a SQL Server instance that has been configured in the LAW Configuration Utility.
- 2. By default the **Clients** node is selected with a table listing of clients populating the right panel.
- 3. Select the **Turbo Clients** node on the left. (This is a list of computers in the environment that have been configured with a Local LAW Service. The Turbo Import clients are configured in the LAW Configuration Utility under the Configure Local Machine.)
  - **Turbo Clients** is followed by a number in parentheses. This number represents the total number of LAW Services (workstations configured for Turbo Import and

Turbo Imager processing as LAW Services) connected to the same SQL Server and visible to the current instance of the LMC.

- ▲ The LAW Service needs to be configured as a network Log On (User Account) to be used over the network. If the service is configured as a Local Service then it won't be able to access all sources needed for processing. To enable a workstation as a User Account, it would need to be configured in the LAW Configuration Utility under Local Machine. If you configured it previously as a Local Service and need to change it to a User Account then either launch the LAW Configuration Utility again or go to Services.msc to change the LAW Service. If you plan to create cases on a network share or import data from a network share, then you need to run the LAW Service using a network account that has read, write and modify access to those shares.
  - The computer name preceded by an asterisk (\*) is the computer on which you are running this instance of the LMC.
  - You can identify a client as unresponsive if the client name appears in **bold red** text. If you hover over the client name you will see a tooltip "<Client Name> does not appear to be responding".
- 4. In the **Turbo Clients** table located in the right hand part of the window, each computer currently connected to the SQL Server is listed in a row. Fields in the list are:
  - Machine. The name of the workstation running the LAW Service.
  - Status. The status of the LAW Service.
  - User. The Windows user name currently logged into the computer.
  - LAW Service Version. The version of LAW running on the computer.
  - **SW Updated.** The date and time the software was updated.
  - Last Updated. The last time the Turbo Import Client status was checked by the LAW Management Console. By default each client status is updated every 10 seconds.
- 5. Expand the **Turbo Clients** node and then click a Turbo Import client name.

The node expands and the right pane provides details about the selected client.

## Service Details:

- **Status** Displays the status of the selected Turbo Import LAW Service. Possible values are: ONLINE, STARTING, WORKING, or CANCELLING.
- **User** Displays the account currently logged in on the LAW Service.
- Last Active The date and time that the Turbo Import service last communicated with the SQL server.
- LAW Service Version Displays the version of the installation of LAW Service. Typically, this version should match the LAW version shown in the Clients section.
- SW Updates The date and time the software was last updated.

## Service Activity:

- Agent The name of the agent on the LAW Service running the process.
- **Case** The name of the case that the agent is processing.
- Activity The activity that the agent is currently processing.
- Start Time The time that the process started (displayed in local time).
- File Name The name of the file being processed (displayed during Analysis only).
- Size The size of the file being processed (displayed during Analysis only).
- Attempts The number of attempts for the current activity.

## To work with jobs

- 1. Start the LMC and if necessary connect to a SQL Server instance. For more information, see <u>Starting the LMC</u>.
- 2. Select Jobs.
  - The node expands and the jobs overview panel is visible to the right.
  - **Jobs** is followed by a number in parentheses. This is the total number of jobs on workstations running the LMC, connected to the same SQL Server, and visible to the current instance of the LMC.
- 3. The right pane updates to show a table of information for all known jobs. You can also Start or Cancel a Job.
  - Name The job name as entered in the Name field when creating the batch.
  - **Case** The name of the case currently open on the workstation.
  - Status Displays the status of the Job.
  - **# Clients** The number of clients working on the job.
  - % Comp. Displays the percentage completed thus far for this job.
  - Errors The number of errors that have occurred so far in this batch job.
  - Invite The invitation type for the job.
  - Processes The processes selected when the batch was created.
- 4. See additional details for a specific job by selecting it in the list in the left pane.

The Job Details section displays:

- Job Name
- Status
- Case Name
- **Created** Displays the date and time the batch was created and the user who created the batch.
- **Processes** The processes selected when the batch was created, such as TIFF, OCR, or Endorse.

- **Req. Lic.** Lists the license modules required in order to work on the batch.
- **Invitation** Displays the invitation type for the current job.

The Job Progress area displays:

- **Complete** Displays the total number of documents completed thus far in the batch.
- **Remaining** Displays the estimated amount of time remaining in the batch.
- **Total** Displays the total number of documents included in the batch.
- Expanded
- Errors Displays the number of errors that have occurred thus far in the batch.
- **View Errors** Opens the batch process log. It displays errors that occurred during a batch.
- Speed

The bottom of the job information pane shows three additional tabs:

- **Clients** Displays each client working on the job, the process currently taking place on the machine (i.e., OCR), and the document currently being processed.
- **Client Activity** Shows client activity specific to the selected job. Entries will appear when a client attempts to join a job, successfully joins a job, fails to join a job, is excluded from a job, etc.
- **Excluded Clients** Lists clients excluded from a job. The computer name and reason for the exclusion are listed.
- 5. Change the invitation type, cancel the job, or remove the job from the **Jobs** area as needed.
  - To change the invitation type, select the specific job in the list on the left, then click the ellipsis button to the right of the Invitation field. You can then configure the new invitation type.
  - To cancel the job, click **Cancel** Job. This action cancels the batch for all clients but does not delete the job from CloudNine<sup>™</sup> LAW.
  - To remove the job from the Jobs area of the LMC, right-click the job and then click **Remove Job**.

#### Turbo Job prioritization

You can use the LMC to prioritize the processing for Turbo Jobs (Turbo Import processing and Turbo Imaging jobs). If you have multiple Turbo Jobs that have been started, you can change the priority of those jobs by need. The job with the highest priority and will have the most agents for processing and start processing first.

- 1. Start the LMC, connecting to a SQL Server instance that has been configured in the LAW Configuration Utility.
- 2. By default the **Clients** node is selected with a table listing of clients populating the right panel.
- 3. Expand the Jobs section by selecting the plus symbol.
- 4. Select **Turbo Jobs**

LAW Management Console		-		×
Server Tools Help				
	Turbo Job(s) Turbo Jobs priority:			
	Save			
< >				
Status: Connected to [LAW76-SQL01] System	Idle: NO Last Updated: 6/4/2021 8:31:37 AM (server time)		6	(10)

- 5. The Turbo Jobs panel is visible to the right.
- 6. A list of Turbo Jobs in process are displayed under **Turbo Jobs Priority:**
- 7. The job that is at the top of the list is the first priority for processing.

## To Change a case's priority:

Select the case from the **Turbo Jobs Priority** list and one of the following:

- **Top** to move the selected job to the absolute top of the list.
- Move Up Move the selected job one level up in the list.
- Move Down Move the selected job one level down in the list.
- **Bottom** Move the selected job to the absolute bottom of the list.

**<u>Committing the job priority -</u>** Select one of two options for committing priority level changes.

- **SAVE** When user clicks Save the new priority level is committed. No job prioritization changes are made unless Save is selected to commit the new priority level.
- **CANCEL** When user clicks Cancel, the new priority level is NOT committed. All changes made to job priority revert to the original position in the list.

#### Turbo Job details

You can use the LMC to view details for Turbo Jobs - both Turbo Import and Turbo Imaging. From the **LAW Management Console**, expand **Turbo Jobs** in the left pane, then select the specific Turbo Job you want to see. The job name will be the name of the case that ran a Turbo Import or Turbo Imaging job. The right pane updates to show **Agent Activity** and **Turbo Imaging Job Details**.

😺 LAW Management Console				- 🗆 X
Server Tools Help				~
·				
Status Logs				
Turbo Job(s)				
🖃 🜷 Turbo Clients (5)				
LAW76-2016APP01 Case Details:	<i>c</i>			
LAW76-2019APP02	Status:	In Progress		
Agent Activity:				
Agent	Activity Start Time	File Name File S	Size Attempts	
Batches (1) svc://LAW76-2016APP01:2	Inventory 6/4/2021 3:46:23 PI		0	
Unassigned) svc://LAW76-2019APP01:2 <b>ED Imports (36)</b> svc://LAW76-2019APP02:2	Inventory 6/4/2021 3:46:22 PI Inventory 6/4/2021 3:46:24 PI		0	
E- J Turbo Jobs (1) svc://LAW76-W10APP01:2	Inventory 6/4/2021 3:46:23 PI		0	
TISixFour (In Progress) svc://LAW76-W10	Preparing Wc 6/4/2021 3:46:18 PI	0	0	
Elicenses (1 Key)				
Turbo Imaging Job Details:	Show: Cancelled Com	pleted Failed		
Job	Status Owner	Created Total Docs	Completed Pages Pg/Hr	Rem. Time Error Message
100	Juitus	created lotal bots	Completed Pages Pg/Th	Ren. Time Enormessage
				View Errors Cancel Job
Status: Connected to [LAW76-SQL01] System Idle: NO Last Updated: 6/4/20	21 3:46:21 PM (server time)			(10)

This shows an example of what is displayed for a Turbo Import job.

This shows an example of details for a Turbo Imaging job. Turbo Import jobs will not display a File Size.

LAW Management Console									-		×
Server Tools Help											
Status Logs											
Law Clients (1)     Law Clients (1)     Law 76-2016APP01     Law 76-2019APP01     Law 76-2019APP02	Case Details:       Case Name:       TISix Four		Status:	- In Progress							
LAW76-W10APP01	Agent Activity:										
□ - ( Jobs (37)	Agent	Activity	Start Time	File Name	File Size	Attempts					
🖻 📁 Batches (1)	svc://LAW76-2016APP01:2 svc://LAW76-2019APP02:2			////////////////////////////////////		0					
Unassigned) ⊡ [] ED Imports (36)	svc://LAW76-W10APP02:2			\\cev-fs02\law\LAW76\TISb		0					
TISixFour (In Progress)											
	Turbo Imaging Job Details:	Show: Ca									
	Job (Unassigned)	Status In Progress		Created Tota 6/4/2021 7:25:40 PM	I Docs Co 117	mpleted Pages 0 0	Pg/Hr 0	Rem. Time <na></na>	Error Message		
		innigita							View Errors	Cancel	Job
											(10)

## To work with licenses

- 1. Start the LMC and if necessary connect to a SQL Server instance. For more information, see <u>Starting the LMC</u>.
- 2. Select **Licenses** in the left panel. **Licenses** is followed by a number of keys in parentheses. This is the total number of license keys on workstations running the LMC, connected to the same SQL Server, and visible to the current instance of the LMC.
- 3. The **Licenses** overview panel opens on the right.

LAW Management Console							×
					-		^
Server Tools Help							
Status Log							
	Licenses [All]						
LAW 76-2016APP01	License	Total	In Use	Available	e Clients using 'Admin (Import/Export)'		_
	Admin (Import/Export)	10	1				
	CD Publishing w/Full Text	0	0	0			
	Edit/Review (QC)	10	1	9			
	Electronic Discovery: e-Print	10	1	9	9		
LAW76-2019APP01	Electronic Discovery: Loader	10	1	9			
	Electronic Discovery: TIFF/PDF	10	1	9	9		
Batches (1)	Endorse	10	1	9	9		
(Unassigned)	Full Text Indexing	10	1	9	9		
⊕ 📫 ED Imports (36)	Imaging Agent	100	0	100	۵		
E- Comports (30)	Import Agent	100	1	99	9 .		
CentrateEvportLogs (Suspended	OCR (ExperVision)	10	1	9	9		
Licenses (1 Key)	OCR (ExperVision PDF add-on)	10	1	9			
	OCR (ABBYY FineReader)	10	1	9 9 9 9	9		
	Print	10	1	9	9		
	Scan (Platinum)	10	1	9	9		
	Scan (Gold)	0	0	0			
	Enterprise License Agreement	0	0	0			
>							
atus: Connected to [LAW76-SQL01] System I	dle: NO Last Updated: 6/4/2021 8:	39:09 AM (ser	ver time)			0	(10

- License column Lists all license modules found on the keys listed below the Licenses node.
- **Total** column- The total of each license module found on the collection of keys listed below the Licenses node.
- **In Use** column- The total of license modules in use on workstations running the LMC and connected to the same SQL Server (for all keys listed below the License node).
- **Available** column The total of available licenses for each module for all keys listed below the Licenses node.
- **Clients using '<license module>'** Lists the clients that are using the module selected in the license module list. The machine names and user names are shown.
- If The LAW Management Console (LMC) does not show licenses are in use when OCR is being performed within CloudNine<sup>™</sup> Explore. Licenses in use may be viewed in the LAW Profile Manager as an alternative.
- 4. If you have multiple license keys, you can view information for that particular key by expanding the **Licenses** node on the left and selecting the specific license key underneath.
- 5. Selecting a license in the middle pane updates the right pane to show which client machine and user is currently using that license.

To cancel a distributed batch process

You can cancel a job for all clients.

- 1. In the LMC, expand the **Jobs** node and then select a job.
- 2. Click Cancel Job.

### To remove a client from a distributed batch process

You can remove a client from a distributed batch process.

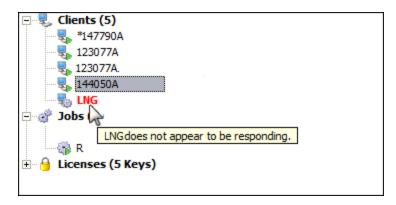
- 1. In the LMC, expand the **Clients** node and then select a client.
- 2. Click Leave Job.

#### **<u>To manage unresponsive clients</u>**

1. Within the LMC connected to SQL Server, identify a client as unresponsive if the client name appears in **bold red** text.

🐷 LAW Management Console										→ (	_ 🗆 🔀
Server Tools Help											
Status Logs											
Clients (5)			Clients								
123077A			Computer	Running	User	LAW Versior	Case	Status	Job Name	Last Upda	ted (Server
123077A			12307	True	BIRKES	5.7.05	TESTBOXC	ONLINE		9/10/2010	0 1:16:52 Pl
			12307		VA	5.7.05	NEW CASE				) 1:16:45 PI
□ ♂ Jobs (2)			144050		BIR	5.7.05	LAPTOPTE				0 1:16:50 PI
MYDBP (1) (This station has been exclude	ed from this job	\    <u>*</u>	147790		B	5.7.05	MYDBP02				0 1:16:53 PI
R		′ ⊫_	LNG	True	B	5.7.05	MYSQLCAS	WORKING	MYDBP	9/10/2010	0 1:16:46 PI
		<ul> <li></li></ul>	Screenshot	Leave Job		nd Process	1				>
Status: Connected to [123077A\SQLEXPRESS] S	System Idle: NO	Last Upd	ated: 9/10/2010 1	:16:53 PN	I (server	time)					🚱 (10) 🏿

 Hover your mouse over the client to see the following tool tip: <Client Name> does not appear to be responding. This condition can be caused by the client being either hung or by it simply having paused the job.



- 3. Select the unresponsive client. Details for the client are shown in the panel to the right.
- 4. Click **Screenshot**. An image viewer appears showing a screen capture of the client Desktop.
- 5. Take corrective action based on what you see in the screen shot:
  - If a viewer appears showing the client Desktop, look in the screen shot for the **Batch Process Status** dialog box. If this is visible, check the status in the title bar of the dialog box. If it is **(Paused)**, you can go to the client computer and then click **Resume**. The client will continue processing the batch and its status in the LMC will return to normal.
  - If the viewer does not appear, or opens showing only black: click **Leave Job** to remove the client from the job. This action adds the client to the **Excluded Clients** list for that job. Or click **End Process**, to stop the job entirely. Use the Batch Process utility to restart a stopped job. For more information, see <u>Batch</u> <u>Processing</u>.

#### To view LMC logs

The LMC provides a listing of errors, messages, and debug information pertaining to LMC operation. The LMC also provides direct access to batch process error log.

#### To view logs of LMC errors, messages, and debug information

- 1. Start the LMC. For more information, see <u>Starting the LMC</u>.
- Click the Log tab. The last 500 entries that were logged during the application session are visible. The log is composed of data from multiple application sessions and has a maximum size of 5MB. This log is written to: %APPDATA% \LAWConsole\LAWConsole.log.

LAW Management Console			-		×
Server Tools Help					
Status Log					
Show: Errors Messages	Debug	Save			
Timestamp		Message Application Initialized			
6/4/2021 3:23:38 PM 6/4/2021 3:23:36 PM	Message Message	Application intellized UPP listener initialized on port 8401			
6/4/2021 3:23:36 PM	Message	Initializing Application Session.			
0, 1,2021 0.20100 111	nessage	Amanung represent occasion			
<					>
Status: Connected to [LAW76-SQL0	)1] System Idle: N	IO Last Updated: 6/4/2021 3:56:00 PM (server time)		0	(10)

- 3. Select or unselect Errors, Messages, or Debug as necessary to filter the view.
- 4. To save a copy of the log, click **Save** and then choose a folder and a file name. The saved copy of the log will contain all errors, messages, and debug information regardless of the filter applied to the view.

## To view the batch process error log

- 1. Start the LMC. For more information, see Starting the LMC.
- 2. Expand the **Jobs** node.
- 3. Select a job.
- 4. Click **View Errors**. The batch processing error log opens.

## Managing LMC Operation

You can configure LMC settings that control system timeout, polling interval, whether unresponsive clients are restarted, the executable instance of CloudNine<sup>™</sup> LAW to use, and how remote refresh requests are handled.

To manage LMC operational settings

1. In the LMC, on the **Tools** menu click **Options**.

The **Application Options** dialog box appears.

Configure the LMC as needed using the settings provided in the **Options** dialog box.

Category	Option and De	escription	
General	Application Option	15	×
	Categories: General	General	
	LAW Network	System Idle Timeout: 30 seconds (0 disables idle-mode)	
		Polling Interval: 10 seconds (1-65)	
		Auto Restart Client: 3 minutes (0 disables auto-restart mode)	
	Reset	Accept Cancel	

## System Idle Timeout

Allows a client not in use for this number of seconds to join a shared batch.

The default value is **30** seconds.

A client is determined as in use if mouse or keyboard activity occurs during the timeout interval. For example, if this is set to **60**, the LMC cannot join the client until the client is idle for one minute.

- To prevent the client from ever automatically joining a shared batch set the value to **0**.
- If the system idle timeout value is reached, the LMC reads as **System Idle: YES**.
- If the value is never reached, the LMC reads as System Idle: NO.
- To determine whether the idle timer status, look at the second panel in the task bar.

## Polling Interval

Determines the frequency by which the LMC updates its status and retrieves data about clients.

The default value is **10** seconds. The maximum value is **65**.

# Category Option and Description

It is important to note that the LMC is a single threaded application and therefore user-interaction with the interface incurs a small delay while it is updating the interface. Under normal conditions this is extremely negligible and almost cannot be noticed. This delay can be mitigated somewhat by reducing the polling interval. The lower the value, the less latency experienced in the interface, but the trade-off is network and database traffic. The default value is 10 seconds.

## **Auto Restart Client**

The number of minutes to wait before restarting the client with a status of **Not Responding**.

The default value is **3** minutes.

- To prevent the client from restarting automatically set the value to 0.
- All unattended restart actions are executed by the local LMC instance relative to LAW instance that is not responding.
- Unattended restarts are logged into the applications main log and are visible in the log interface. An entry in the Job Log indicates whether an LMC instance executed an unattended restart of its Local LAW instance.
- Unattended restart activity is visible in the LMC Jobs panel in the client activity area.
- If the LAW client is restarted automatically then the following message is registered in the application log:

System[<LMC Local Computer Name>] is forcing automatic res

Application Optio	ns X
Categories: General	LAW
LAW Network	Law50.exe: C:\Program Files (x86)\LAW50\Law50.exe This setting controls which Law50.exe is launched when an automated job is started. If you typically map your law shortcuts to a shared executable, then it is advised that you set this value to match the same shared executable.
Reset	Accept Cancel
LAW50.exe	



Category	Option and Description					
	Determines which instance of LAW is started. Typically, if you run a shared Law50.exe from a network drive mapped to a server instance of LAW, then it is recommended that you use that mapped instance of Law50.exe for processing.					
Network	Application Options X					
	Categories:       General         LAW       Image: Enable Remote Refresh Requests         Network       Image: Enable Remote Refresh Requests         This option increases responsiveness for client to client actions such as screenshots. To function correctly, it requires UDP communication on the specified port.         UDP Port # 8401					
	Reset Accept Cancel					

## **Enable Remote Refresh Requests**

Enables client-to-client operations, such as screenshots and requests to leave jobs.

This setting defaults to **enabled**.

The LMC communicates actions between clients by using a central message store. When a client requests an action from another client, the message is placed into the store, and the recipient client gets the message the next time it refreshes.

Since clients refresh at an unsynchronized interval, there could be a delay in retrieving the message by the recipient client. This option sends a UDP packet to the recipient client requesting that it refresh immediately, thereby reducing the time it takes to retrieve and process the message.

## UDP Port #

Specifies the port for the current client to use as UDP listener.

The default value is **8401**.

This port enables the client to determine whether other clients are connected.

# Category Option and Description

It is not necessary that this value be the same for all clients. However, for ease of configuration using the default port for all clients is recommended.

When the LMC starts, or if changes are made to this setting, an entry is placed into the application log.

3. When finished configuring click **Accept**.

# Creating Batch Jobs from the LMC

Users can create distributive batch processes through the LAW Management Console without launching CloudNine<sup>M</sup> LAW.

Databases need to be created in SQL to create a batch processing job through the LAW Management Console. If running a batch process that requires flag reset prior to processing, then it is recommended to set up the distributed batch through the database where you can reset the flags prior to OCRing etc.

## When should I create a Distributed Batch process through the LMC vs through the Database?

Use the LMC - If you need to start a large process and are not a regular user of CloudNine<sup>TM</sup> LAW, then the LMC is quick and easy to get to a large number of documents for batch processing started. Creating jobs does not use any licenses - when the job starts, each client will pull required licenses to join the process.

Use Distributed Batch Processing through the database, if you need to query/filter for specific documents, or reset OCR flags first.

✓ The case list should be in SQL. If you have an Access case list then you will need to migrate it to a SQL case list first. See <u>migrating case list</u> for more information.

## Creating a Distributed Batch Process through the LMC

- 1. Close LAW on the workstation that you are using.
- 2. Launch the LAW Management Console
- 3. In the LAW Management Console, select **Tools** from the tool bar.
- 4. Select **Create batch job**. Create Batch opens in a new window.

Create Batch			
Create Batcl	h		
Select Case :	TISixFour		~
		Create Batch	Close

- 5. Select the database from the list of SQL Databases in the **Select Case** dropdown.
- 6. Click **Create Batch**. **Batch Processing** opens in a new window.

🚡 Batch Processing	:
Options	
Processes         Document Numbering         © Page       Document         Target <page id="">         Starting #      </page>	Selected Documents            • All Documents         • Current Record Set         • Selected Documents         • Select         Total: 140 docs          Sharing            ✓ Enable Distributed Batch Processing         Name: (Unassigned)         Type: CLOSED (No clients will join)             There are currently no shared batches running for you to join. You may "re-poll" the batch queue by pressing 'Refresh'             Refresh             Refresh

- In the Batch Processing dialog box select the documents to be processed on the right. You can select All Documents, Current Record Set (all documents), or click Select to choose specific folders.
- 8. Select the batch **Processes** that you wish to run.

- Distributed processing is available for those batch processes that do not require sequential execution. You can not run distributed batch processes on these kinds of jobs:
  - Document Numbering
  - E-Print
  - Print
- 9. Type a name for the batch over the default of **(Unassigned)**. The batch name is visible to other workstations when they are prompted to join a distributed job. The batch name is also visible in the LAW Management Console (LMC).
- 10.Under Enable Distributed Batch Processing select **Edit**. The **Create/Modify Job Invitation** dialog will open.
- 11.Select the **Invitation Type**. The invitation type determines how the job is handled by other stations when utilizing the LMC.
  - **Closed.** (Default) None of the LMC instances will be able to auto-join LAW to the shared batch. LAW workstations can still be joined to the job manually.
  - **Open**. All LMC instances automatically join LAW to the shared batch.
  - **Restricted.** Only selected LMC instances will automatically join the process. If you choose **Restricted**, select computers that can participate in the batch process from among available computers in the Clients area of the dialog box.
- 12. In the **Limit no. of stations for the job** field, enter the maximum number of work stations that can process data for the batch process job at any given time. The Limit no. of stations for the job field defaults to 0. When the Limit no. of stations for the job field is set to 0, all available work stations will process data for the job.
- 13. Configure **Scheduling** as needed. This option prevents the job from starting until after the date and time that you specify.
- 14. It is important to select the **Clients** that will be used for the distributed processes. If no clients are selected then you must manually join the batch process.
- 15.Once you are done updating the Job Invitation click **Accept**. The Create/Modify Job Invitation window will close leaving the Batch Processing window open with your settings.
- 16.Select **Begin**. The Batch Processing window closes and the job will be added to Batch Process Jobs list in the LMC and also under Jobs>Batches> (Job name) on the left side.

# Deduplication

Deduplication is the process of identifying duplicate information sources and then removing them from further analysis. LAW provides several tools to perform deduplication: ED Loader Deduplication, Turbo Import Deduplication, Deduplication Utility, and Inter-Case Deduplication.

# About Deduplication

In CloudNine<sup>™</sup> LAW deduplication can be accomplished at different stages of the discovery process using different tools. Deduplication requires an active connection to the case database. If the data connection is lost, deduplication can pause until the connection is restored.

## Deduplication stages

These stages and tools are described as follows:

1. When importing documents into a case you can deduplicate using ED Loader. For more information about deduplication during import with ED Loader, see <u>Deduplication</u>.

🔍 LAW Electronic Discover	y Loader	
File Edit View Tools		
LAW PreDiscovery	Case Name	⚠ Warning: some functionality may 🛑 be disabled, click here for details.
Sources Settings		
Categories Archives Compound Documents Deduplication	Deduplication	
E-Mail Exclusions File Types General Metadata NIST((NSRL) Filter Output Post Import Actions Text Extraction	Working digest: MD5 (128-bit output digest)  Test for duplicate against (Scope): Case Level (Globally)  If record is considered a duplicate then (Action): Include (Log record)  V	The 'Working digest' will be stored in the DedupKey field in LAW as well as its respectively named field.
	Include attachment hashes in e-mail metadata hash Note: If this setting is disabled, only attachment names	are used in e-mail hashes. rse of a case because it alters the e-mail hashing schema.
Lock Settings Apply Settings Set As Default		
Version: 6.9.96	< Back	k Next > Start Cancel

## Or

When importing documents into a case you can deduplicate using the filters tab in the Turbo Import settings. For more information about deduplication with Turbo Import, see <u>Turbo Import Deduplication</u>. (Introduced in LAW 7.0+)

Import Settings - 7.1 TI			×
Content Filters	Email Metadata	Output	
Deduplication Enable duplicate doc	ument detection		
Deduplication Mode	If a document is con	nsidered a duplicate, then:	
Md5 ~	Include	$\checkmark$	
NIST (NSRL) Enable NIST (NSRL) o	detection 🛕		
Hash Database:	If hashes match, ther	en:	
LAW_NIST	Include	$\checkmark$	
File Type  File Type  File type filter	ing	File Type Manager	
Treat file types not specifically included or excluded as: WARNING: File Type Manager changes are global and apply to all cases that use the same FTM database and enable file type filtering. FTM changes also apply to			
Include ~	,	previously imported documents whose type changed from exclude to include.	
Settings are locked once data which can be provided at any t		Cancol	

2. After importing documents into a case, you can use LAW Deduplication utility. This utility can help if you have already deduplicated a case, but later need to add more files and deduplicate them as well. For more information see <u>Deduplication Utility</u>.

Contraction Utility	$\overline{\mathbf{X}}$	
Info Tools Settings		
Processing Options Working digest: MD5 (128-bit output digest)	Test for <u>d</u> uplicate against (Scope): Case Level (Global)	
Processing Range Options         Only test untested records *Un-check this option to re-test all of the eligible records in your case.         Only test records with selected custodians         Select       1 selected		

- 3. Prior to importing an existing LAW case into the current case, you can use the Inter-Case Deduplication utility. For more information, see <u>Inter-Case Deduplication</u>.
  - ▲ Turbo Import cases are not designed for deduplication in the Inter-Case Deduplication utility. Electronic Discovery and Turbo Import cases use a different hashing algorithms and should not be deduped against each other.

🗊 Inter-Ca	se Deduplication	
File Case		
External Dec	duplication Database	
C:\Docume	nts and Settings\DuplicateLog.mdb	
Mode: Resume/Append Only documents added to member cases since the last session will be added and deduplicated. <u>Refresh</u>		
Options		
Digest:	MD5 (128-bit output digest)	
Scope:	Global	
	* Records with no custodian are evaluated globally	
-Member Cas	es (1)	
Name	Path Add	
MySqlCa	se \\147790A\Law50\Cases\MySqlCase Remove	
<		
• Options a	are locked and case mgmt. is limited when in Resume/Append mode.	
	Begin Exit	
Version: 5.6.2	1 ///	

4. LAW also provides a viewer as well as reporting options for you to quality assure and otherwise manage the deduplication process. For more information, see <u>Duplicate Viewer</u> and Deduplication Reports.

Duplicate Viewer	
Duplicates Near-Duplicates	
Docld: 00000222 [_Dupld: 214] Docld: 00000436 (G) Docld: 00007752 (G)	
Click here to retrieve the deduplication status of the case	
Note: Attachments are not listed in this view	

5. Once the files in a case have been imported and deduplicated, you can assign duplicate relationships to the original files associated with duplicate files using the Apply Duplicate Relationships command in CloudNine<sup>™</sup> LAW. For more information, see <u>Applying Duplicate Relationships</u>.

## Re-establishing the database connection

Deduplication processes require an active connection to the case database. During deduplication, if the connection is lost, LAW will attempt to re-establish the lost connection. You can allow the re-connection process to continue indefinitely until the connection is restored, or you can cancel the deduplication process altogether.

🖥 Database connection lost (retries = 24) 🔀		
Info Tools Settings		
Processing Options <u>W</u> orking digest: SHA-1 (160-bit output digest)	Test for <u>d</u> uplicate against (Scope): Case Level (Global)	
Processing Range Options Only test untested records *Un-check this Only test records with selected custodian Select N/A	s option to re-test all of the eligible records in your case.	

# **Deduplication Utility**

You use the Deduplication Utility to help identify and flag duplicate items after they have been imported into a case. Using it can help you to significantly reduce the time it takes to analyze and process documents.

This utility may be used if deduplication was not performed by ED Loader or Turbo Import during the import process, or if deduplication was not done by using the Inter-Case Deduplication utility. See the <u>Deduplication Information</u> topic for more information.

- ▲ Note the following important considerations before you deduplicate records:
  - If you use the internal Deduplication Utility after the case has been deduplicated against other cases using the Inter-Case Deduplication, a combination of internal and external duplicates could result. Combining internal and external duplicates can cause problems when purging, filtering, or reviewing duplicate records.
  - Proceeding with the internal deduplication after clicking the **Yes I understand and wish to continue** button will result in the external deduplication database being placed in Rebuild/Flush mode. At this point, the current case should be removed from the external database.
  - Before you run the internal deduplication, it is recommended that you reset deduplication flags. See **To reset deduplication log status** section below. Run this procedure to prevent the mixture of internal and external duplicates.
     For more information, see <u>Inter-Case Deduplication</u>.

#### **<u>To load records for deduplication</u>**

1. In the main window, on the **Tools** menu, click **Deduplication Utility**.

The **Info** tab of the **Deduplication Utility** dialog box opens.

🕙 Deduplicatio	on Utility 🛛 🔀
Info Tools	Settings
	Select load to retrieve deduplication statistics for your deduplication log and case
	Load
Reset	< Back Next > Start Cancel

- 2. If the case has not been already deduplicated using the Inter-Case Deduplication utility, then click the **Load** button.
- ▲ Before you run the Deduplication Utility a second time for a case, reset flags for logs and records. You can determine if the Deduplication Utility has already been run by viewing the Info tab. If the statistics on this tab are set to any other value than 0 then reset flags for logs and records before you run the Deduplication Utility.

Deduplication statistics for the LAW case are displayed, including the number of duplicates at the global- or custodian-level and the number of root duplicate records.

🗟 Deduplication Utility 🛛 🛛 🔀		
Info Tools Settings		1
Case		
Records in case	2,332	
Deduplicated documents in case	2,332	
Duplicate root/parent records in case	385	
Duplicates in case	449	
Deduplication Log Items in duplication log (All) Records in deduplication log (global level) Records in deduplication log (custodian level)	1,770 1,770 0	
Description [Records in case]       Refresh         Number of document records currently in the case		
	ext > Start	Cancel

- If deduplication has not yet been performed on the records, the values for each displayed item will be zero.
- If records had been deduplicated externally, two additional rows show the number of records deduplicated externally and the name and location of the external deduplication database.

## To reset deduplication status

- 1. In the main window, on the **Tools** menu, click **Deduplication Utility**.
- 2. Click the **Tools** tab.

Seduplication Utility		
Info Tools Settings		
Deduplication Status Reset           Run         This command will flush all items from the deduplication log and reset the deduplication related fields for all records in the case.		
Verify Deduplication Log           Run         This command will verify that all entries in the deduplication log exist in the case.		
Apply Duplicate Relationships           Run         This command will populate LAW fields with custodian and path information for each duplicate and original document in a case.		
Reset < Back Next > Start Cancel		

3. In the **Deduplication Status Reset** area, click **Run**.

The deduplication log and deduplication-related fields for all the case records are reset. The case returns to a state as if deduplication has never been performed.

## To verify deduplication log against case entries

- 1. In the main window, on the **Tools** menu, click **Deduplication Utility**.
- 2. Click the **Tools** tab.

C Deduplication Utility	×
Info Tools Settings	_
Deduplication Status Reset           Run         This command will flush all items from the deduplication log and reset the deduplication related fields for all records in the case.	
Verify Deduplication Log           Run         This command will verify that all entries in the deduplication log exist in the case.	
Apply Duplicate Relationships           Run         This command will populate LAW fields with custodian and path information for each duplicate and original document in a case.	
Reset < Back Next > Start Cancel	

3. In the Verify Duplication Log area, click Run.

The CloudNine<sup>™</sup> LAW deduplication fields that were updated as a result of intercase deduplication are reset.

See <u>Inter-Case Deduplication</u> for more information. However, iitems from external deduplication databases are not reset. As mentioned above, it is recommended to run this command on a case before running the deduplication process via the Deduplication Utility if a case has already been deduplicated using the Inter-Case Deduplication utility.

The Verify Deduplication Log tool will verify that all entries in the log exist in the LAW case. This tool is included for troubleshooting purposes and does not check external deduplication databases.

## **To apply duplicate relationships to original files**

The Apply Duplicate Relationships command populates the following fields for the original files that have duplicate files in a case:

- DupCustNames
- DupCustPaths
- DupParentName
- DupParentPath

The fields indicate the custodian name and location of the duplicate files and the parents of the duplicate files. For more information about these fields, see Field Descriptions.

- ✓ The Apply Duplicate Relationships command is also available on the Tools menu (Tools menu > Apply Duplicate Relationships) in CloudNine<sup>™</sup> LAW. For more information, see <u>Applying Duplicate Relationships</u>.
- 1. In the main window, on the **Tools** menu, click **Deduplication Utility**.
- 2. Click the **Tools** tab.

Note: The second
Info Tools Settings
Deduplication Status Reset           Run         This command will flush all items from the deduplication log and reset the deduplication related fields for all records in the case.
Verify Deduplication Log           Run         This command will verify that all entries in the deduplication log exist in the case.
Apply Duplicate Relationships           Run         This command will populate LAW fields with custodian and path information for each duplicate and original document in a case.
Reset < Back Next > Start Cancel

3. In the Apply Duplicate Relationships area, click Run.

Clicking **Run** starts the command. When the process is completed the **Duplicate Relationship Update Status** dialog box opens.

Duplicat	Duplicate Relationship Update Status		
<b>i</b>	Duplicate custodiar Families Updated: Total Updates: Elapsed Time:	n and path relationships were successfully updated. 297 834 00:00:02	

The **Duplicate Relationship Update Status** dialog box indicates whether duplicate custodian and path relationships were successfully updated, and indicates the total number of document families that were updated, the total number of files updated, and the amount of time it took for the process to complete.

4. Click OK to close the Duplicate Relationship Update Status dialog box.

## To configure settings

The **Settings** tab contains processing and processing range options.

C Deduplication Utility	X
Info Tools Settings	
Processing Options       Working digest:   Test for duplicate against (Scope):	
SHA-1 (160-bit output digest) Case Level (Global)	
Processing Range Options  Only test untested records *Un-check this option to re-test all of the eligible records in your case.  Only test records with selected custodians  Select N/A	
Reset < Back Next > Start Cancel	

• Working digest - This setting is used to select the hash key to be used for determining duplicates. The hash values are obtained through metadata fields (e-

mail) or by hashing the entire file (e-docs). CloudNine<sup>™</sup> LAW provides two hash keys to choose from: MD5 (128-bit output) and SHA-1 (160-bit output).

- **Test for duplicate against (Scope)** This setting pertains to the scope in which duplicates are tested. Deduplication can be performed at one of two levels: Case Level (globally deduplicates against all records in the database) or Custodian Level (deduplicates against records with the same custodian value).
- **Only test untested records** When enabled, this option will force LAW to only process records that have not been tested previously in the deduplication process. This feature may be useful when a case has been deduplicated previously and then new records are added (and deduplication was not enabled during the import). If the "Only test records with selected custodians" option is also enabled, only untested records with the specified custodian values will be tested.
- **Only test records with selected custodians** When enabled, this option allows the specification of one or more custodians and forces LAW to process only records with those custodians during deduplication.
  - Click the **Select** button to launch the **Custom Value Selection [Custodian]** dialog.
  - Check the boxes beside the custodians to include them in the deduplication process.
- The **Reset** button can be used to reset any options that were modified in the current session. Click Start to initialize the deduplication process.

## **Deduplication Information**

This topic explains the deduplication process implemented in CloudNine<sup>™</sup> LAW and the related Inter-Case Deduplication utility. Items discussed include:

- Key generation and how it relates to the deduplication of e-mail compared to electronic documents.
- A list of deduplication-related fields and possible values.
- Brief explanations of deduplication options and their resulting output.

## What is key generation?

Deduplication technologies do not directly compare file contents. Instead, the encryption signatures, also known as the hash values, of files are compared. If the hash values for two different items are identical, the content of the two files is assumed to also be identical. Key generation then, refers to the process of creating an encryption signature for a file so that files can be easily compared. File hashing and metadata hashing are the two primary methods used by the ED Loader and Turbo Import for generating keys.

Currently, the ED Loader and Turbo Import generate two output hashes in parallel: MD5 and SHA-1. In the ED Loader and Turbo Import options you can choose which of these is used in the deduplication process.

- **E-docs.** The key value is generated using the entire file as the input.
- **E-mail.** The key value is generated using an input value of certain metadata after processing of the metadata fields has been executed. The purpose of using the post-processed metadata is to match the metadata that is stored in CloudNine<sup>™</sup> LAW; therefore, if the key is regenerated in the future, the value would match the original. E-mail includes both e-mail messages contained in mail stores and loose e-mail messages. The term "loose e-mail" refers to a file that is identified as a mail item and successfully converted to a mail item by Outlook. These include .msg files, .eml files, and other RFC822-format e-mails.

For Microsoft Outlook PST files, e-mail also includes non-email items — calendar items, contacts, journal entries, notes, and tasks.

Electronic Discovery in LAW uses the fields shown in the following table to generate the hash values for e-mail, loose e-mail items, and Outlook PST non-email items in CloudNine<sup>™</sup> LAW:

E-mail fields used by deduplication keys in CloudNine™ LAW's Electronic Discovery Loader

Base EmailBCCBodyCCFromIntMsgID

Email\_Subject

То

Attach -- These are first-level attachments in the e-mail. The strings are delimited by semi-colons (;).

- OR -

AttachmentContentHash -- If **Include attachment hashes in e-mail metadata hash** is enabled in the **ED Loader or Turbo Import Deduplication** setting, the hashes of the attached files are included in the parent e-mail's metadata hash, as opposed to the above Attach field.

## Calendars

IsPrivate

IsAllDayEvent



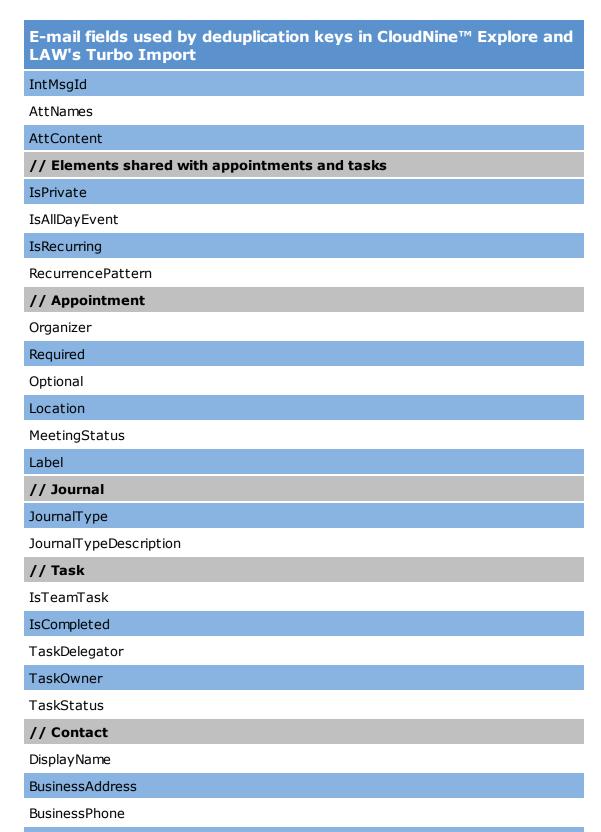
E-mail fields used by deduplication keys in CloudNine™ LAW's Electronic Discovery Loader
Notes
NotesBody
Tasks
IsPrivate
IsAllDayEvent
IsRecurring
RecurrencePattern
TeamTask
TaskCompleted
TaskDelegator
TaskOwner

TaskStatus

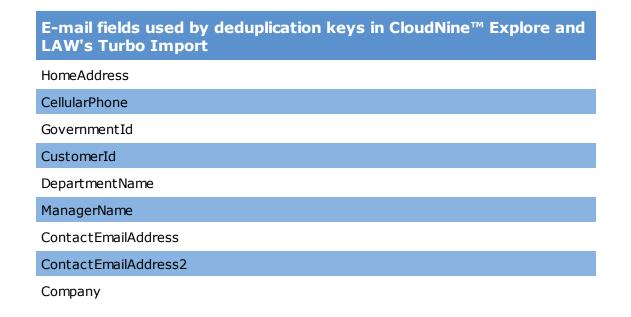
✓ Due to the different technologies used in CloudNine LAW's Electronic Discovery Loader verses CloudNine<sup>™</sup> Explore and LAW's Turbo Import, the hash values generated for files in ED Loader cases versus Explore and Turbo Import cases will not always match.

CloudNine<sup>™</sup> Explore uses the fields shown in the following table to generate the hash values for e-mail items in CloudNine<sup>™</sup> Explore:

E-mail fields used by deduplication keys in CloudNine™ Explore and LAW's Turbo Import
// Base Email
From
То
Subject
Body
CC
BCC



BusinessPhone2



### **<u>Fields</u>**

LAW stores information regarding deduplication test results and other deduplicationrelated data in the following nine fields:

- **DupStatus**: Indicates the duplicate state of the document. This is the primary field used for differentiating duplicate items from non-duplicate items. DupStatus is a single character field and will contain one of the following values:
  - **U** Indicates the record was not tested (not deduplicated).
  - ${\bf N}$  Indicates the record was tested and was not determined to be a duplicate at the selected scope (Global/Custodian-level).
  - G Indicates the record is a global-level duplicate.
  - C Indicates the record is a custodian-level duplicate.
  - **P** Indicates the "parent" duplicate. This value is set when a duplicate has been identified. The record that was assigned the "G" or "C" status will have the same \_DupID value as this parent record (see \_DupID field, explained below).
- **\_\_DupID**: This field is designed to provide a mechanism for grouping duplicate records with their "parent" duplicates. A document determined to be a duplicate in ED Loader enabled cases will contain the same LAW ID field value as any other records that were determined duplicates of that particular document. The parent duplicate will store its own ID in this field. Drag and drop this field into the grouping area in one of the grid displays to view the parent and "child" duplicates together.

A document determined to be a duplicate in a Turbo Import enabled case will contain the same LAW ID field value as any other records that were determined duplicates of that particular document. The parent duplicate will store its own ID in this field. Drag and drop this field into the grouping area in one of the grid displays to view the parent and "child" duplicates together.

Records deduplicated via inter-case deduplication are slightly different. Parents and their duplicate records will still have matching \_DupID field values; however, the value will not be pulled from the ID field in CloudNine<sup>™</sup> LAW. This value will instead come from an ID assigned to records in the external deduplication database. The ID for each parent and duplicate will be the ID of the parent, as assigned in the tblDupLog table's DupID field.

- **\_\_DupMethod**: Indicates which hash type was used in testing the duplicate state of the record. Possible values are:
  - 1 MD5 hash
  - 2 SHA-1 hash
  - 129 MD5 hash and record was included in an inter-case deduplication process
  - 130 SHA-1 hash and record was included in an inter-case deduplication process
- **DupCustNames**: Indicates the names of the custodians containing duplicate versions of the original record. Populated for parent/original records only (DupStatus=P) after running Tools > Apply Duplicate Relationships.
- **DupCustPaths**: Indicates the source path to each duplicate version of the original record. Populated for parent/original records only (DupStatus=P) after running Tools > Apply Duplicate Relationships.
- **DupParentName**: Indicates the custodian name of the original record. Populated for duplicate records only (DupStatus=G or C) after running Tools > Apply Duplicate Relationships.
- **DupParentPath**: Indicates the name of the custodian containing the original record. Populated for duplicate records only (DupStatus=G or C) after running Tools > Apply Duplicate Relationships.
- **MD5Hash**: Stores the MD5 hash value of the record. If a file is considered to be a duplicate, this value will be equal to the deduplication key.
- **Sha1Hash**: Stores the SHA-1 hash value of the record. If a file is considered to be a duplicate, this value will be equal to the dedup key.

### **Scope**

Scope refers to the range of deduplication keys that will be tested to determine the record's duplicate state. The scope may be specified by the user in the ED Loader or

Turbo Import Deduplication settings, the LAW Deduplication Utility, and Inter-Case Deduplication utility.

Two kinds of scope are available:

- **Global:** The Global scope will result in the deduplication keys of incoming records being tested against ALL other keys, regardless of how the scope of other records were logged.
- **Custodian:** The Custodian scope will result in the incoming records' deduplication keys being tested against all other keys that have the same CustodianID value.

### Actions

The Action options are used to limit or exclude the data stored for a record that is considered to be a duplicate. Options include:

- (Include) Log record: Duplicate records are added to the LAW case normally, including the native file, and all associated duplicate fields are set.
- (Partially Exclude) Log record but do not copy file: Duplicate records are added to the LAW case normally and all associated duplicate fields are set, but the native file is not copied to the case folder.
- (Exclude) Do not log record or copy file: Duplicate records are completely excluded from the case. The record is not added to LAW and the native file is not copied.

### Attachments

Deduplication is only performed at the parent level, so attachments will always inherit the DupStatus of their parent item. This includes all types of attachments, such as e-mail attachments, attachments to an archive file (i.e. zip), and loose e-mail message attachments.

### Filtering by file type

When the following action is selected, and **File Type Filtering** is enabled, duplicate checking is executed normally.

## (Partially Exclude) File Type Filter Action and Deduplicating

Records without native files can still be flagged as duplicate parents or children.

Deleting duplicate documents

After running the deduplication process, if you delete a the parent document of a duplicate or a duplicate document itself, you can have LAW automatically update the DupStatus field and other deduplication fields for the remaining case document(s) associated with the deleted duplicate document. The Refresh duplicate status after deleting records check box on the Preferences tab in the Options dialog box controls whether the DupStatus field is updated for documents when duplicate documents are deleted from CloudNine<sup>™</sup> LAW. By default, the check box is not selected. When the check box is selected, LAW automatically updates the DupStatus field and other fields when duplicate documents are deleted from the case.

The following fields are updated when the Refresh duplicate status after deleting records check box is selected and duplicate documents are deleted:

- \_DupID
- DupStatus

The Refresh duplicate status after deleting records check box is only available for SQL LAW cases. The check box is disabled for Access cases.

✓ The Refresh duplicate status after deleting records check box setting does not apply to any records that were deduplicated using the Inter-Case Deduplication utility.

For more information about deleting documents, see <u>Deleting Documents</u>, <u>Pages and</u> <u>Folders</u>.

Options
Imaging Indexing Notifications Numbering OCR Preferences
Add all new list field values to list on update Allow selection of multiple list items
Separator character ;
Auto-advance after updating a document
Calculate total pages in batch/export dialogs
Enable Advantage Database Server (ADS) support
Reable SQL Server/SQL Express support
Link to source files in place when importing load files
Prompt to continue scanning when feeder is empty
Refresh duplicate status after deleting records
Send query results to grid on main form by default
Start the Management Console on Windows startup
Path for global profiles, grid views, and filters:
C:\Program Files (x86)\Law50\Shared\ Browse
OK Cancel

# **Inter-Case Deduplication**

The Inter-Case Deduplication utility installs with CloudNine<sup>™</sup> LAW but is run externally from CloudNine<sup>™</sup> LAW. You use it to deduplicate cases against other cases. This type of deduplication is intended for cases that are already populated with documents imported via ED Loader or Turbo Import. If documents are added to the cases after the inter-case deduplication process, they can be deduplicated against the other records as well.

▲ Inter-Case Deduplication is not designed for a combination of Turbo Import cases and Electronic Discovery cases. Turbo Import cases are hashed differently than

Electronic Discovery. Turbo Import cases can be deduplicated against other Turbo Import cases. ED Loader cases can be deduplicated against other Ed Loader cases.

Note the following facts when considering using the Inter-Case Deduplication Utility:

• After a case is deduplicated using the Inter-Case Deduplication utility, the case should not be deduplicated using the internal Deduplication Utility, and incoming documents should not be deduplicated using ED loader.

Doing so can lead to issues with purging, reviewing, and filtering duplicate records caused by a mixture of internal and external duplicates existing in the case. See the <u>Deduplication</u> and/or <u>Deduplication Utility</u> topics for more information about these risks and associated warnings.

• In addition to creating a database for each case, LAW also creates a database external to the case database. The external deduplication database can be created as a Microsoft SQL Server or Access database (\*.MDB file).

The purpose of this database is to maintain deduplication information. When you use the Inter-Case Deduplication Utility, the database registers each case added. Cases are ready for inter-case deduplication after they have been populated with records via the ED Loader or Turbo Import. Records added to these cases during subsequent imports can also be deduplicated.

- It is best practice to use SQL Server databases for deduplication due to the 2 GB limitation of Access databases. When working with large cases, the 2 GB limit can quickly be reached and exceeded.
- Member cases are LAW cases that are added to the external deduplication database with the intention of deduplicating them against each other.
  - All member cases must be ED-enabled.
  - Both SQL and Access cases are supported.

### To start Inter-Case Deduplication utility

- 1. Click **Start**, point to **All Programs**, and then click **CloudNine™ LAW**.
- 2. Click **Inter-Case Deduplication Utility**. The Inter-Case Deduplication dialog box will appear.

Inter-Ca	se Deduplication Util	ty		—		×
File Case						
External De	duplication Database					
<no databa<="" th=""><th>ase Selected&gt;</th><th></th><th></th><th></th><th> N</th><th>lew</th></no>	ase Selected>				N	lew
Create a documen * NOTE: I	Mode: No Database Selected         Create a new database or open an existing one (above) and add LAW cases to the list below to deduplicate documents across the listed cases.         * NOTE: It is NOT recommended to include both Turbo Import and ED Loader cases in the same ICD database. Please create separate ICD databases for each case type.					
Options <u>D</u> igest:	Options Digest: MD5 (128-bit output digest)					
	Scope: Global * Records with no custodian are evaluated globally					
Member Cas	es (0)	Path			Ado	
					Clea	ive
Version: 7.4.5	2			Begin	Exit	

### To create the external deduplication database

When you are creating an external deduplication database, you can create the database as a Microsoft SQL Server (.icd file) or Access (.mdb) database.

It is best practice to use SQL Server databases for deduplication due to the 2 GB limitation of Access databases. When working with large cases, the 2 GB limit can quickly be reached and exceeded.

# To create an external SQL deduplication database (recommended):

1. On the **File** menu click **New**. The **Select Database Type** dialog box opens. By default, the **SQL Server** option is selected.

Select Database Type
Avaibble Database Types
Available Database Types
O SQL Server
○ Access Database (*.mdb)
· /
OK Cancel
OK Cancel

2. Make sure the **SQL Server** option is selected, and then click **OK**.

Clicking Accept opens the Server Connection Information dialog box.

🗟 Server Connection Information 🛛 🔀					
Configure SQL Server Connection					
<u>S</u> erver Name:	SQL Se	erver server name			
Use Windows Authentication					
<u>U</u> ser	Name:	law_user			
<u>P</u> as	sword:	*****			
Database: external database name					
		OK Cancel			

3. In the **Server Name** list, click or type the name of the server where SQL Server is installed.

By default, the **Use Windows Authentication** check box is selected, and the **User Name** and **Password** fields are disabled.

- If you do not want to use Windows authentication, clear the Use Windows Authentication check box, and in the User Name and Password fields, type the applicable SQL Server user name and password.
- 5. In the **Database** field, type the name of the new external deduplication database, and then click **OK**.

Clicking **OK** opens the **Save Deduplication Project Configuration** dialog box.

6. In the **Save Deduplication Project Configuration** dialog box, browse to a location accessible to all member cases.

The **File name** field defaults to the database name you entered in the **Database** field in the **Server Connection Information** dialog box. The **Save as type** field defaults to **Deduplication Projects (\*.icd)**.

7. Click Save.

Clicking **Save** closes the **Save Deduplication Project Configuration** dialog box, and in the **Inter-Case Deduplication Utility** dialog box, the path to the database is now displayed with **Mode** set to **New**. When the **Mode** is set to **New** all documents in the member cases are deduplicated against each other.

8. Set the deduplication options:

**Digest** - The digest refers to the type of hash that will be used to determine duplicates. The hash values are obtained through metadata fields (e-mail) or by hashing the entire file (e-docs) during the ED Loader or Turbo Import process. Two options are available:

- **MD5 (128-bit output digest)** This hash value is stored in the MD5Hash field in LAW for each document.
- **SHA-1 (160-bit output digest)** This hash value is stored in the Sha1Hash field in LAW for each document.

**Scope -** This option refers to the scope in which duplicates are tested. Two options are available:

- Global Records will be deduplicated against all records in all member cases.
- **Custodian Level** Records will only be deduplicated against others records with the same custodian assigned. Records with no custodian value set will be evaluated globally.
- Move to the Member Cases area to add LAW cases. These cases will be deduplicated against each other in the inter-case deduplication process. See the "Member Cases" section for details.

# To create an external Access deduplication database:

1. On the **File** menu click **New**. The **Select Database Type** dialog box opens. By default, the **SQL Server** option is selected.

Select	Database Type
⊂ Avai	ilable Database Types
0	SQL Server
•	Access Database (*.mdb)
	OK Cancel

2. In the **Select Database Type** dialog box, click the **Access Database (\*.mdb)** option, and then click **OK**.

Clicking **OK** opens the **Create Deduplication Database** dialog box.

 In the Create Deduplication Database dialog box, browse to a location accessible to all member cases.

The **File name** field defaults to **DuplicateLog**, and the **Save as type** field defaults to **Deduplication Database (\*.mdb)**.

- 4. If you want to change the database name, in the **File name** field, type the new name.
- 5. Click Save.

Clicking **Save** closes the **Create Deduplication Database** dialog box, and in the **Inter-Case Deduplication Utility** dialog box, the path to the database is now displayed with **Mode** set to **New**. When the **Mode** is set to **New** all documents in the member cases are deduplicated against each other.

6. Set the deduplication options:

**Digest -** The digest refers to the type of hash that will be used to determine duplicates. The hash values are obtained through metadata fields (e-mail) or by hashing the entire file (e-docs) during the ED Loader or Turbo Import process. Two options are available:

- MD5 (128-bit output digest) This hash value is stored in the MD5Hash field in LAW for each document.
- SHA-1 (160-bit output digest) This hash value is stored in the Sha1Hash field in LAW for each document.

**Scope -** This option refers to the scope in which duplicates are tested. Two options are available:

- Global Records will be deduplicated against all records in all member cases.
- **Custodian Level** Records will only be deduplicated against others records with the same custodian assigned. Records with no custodian value set will be evaluated globally.

 Move to the Member Cases area to add LAW cases. These cases will be deduplicated against each other in the inter-case deduplication process. See the "Member Cases" section for details.

# To open an existing database

You can open an existing database from a previous deduplication session.

1. Click the ellipsis button that is located to the left of the **New** button.

Or on the File menu click Open.

2. Browse to and select the external Access deduplication database (\*.mdb) or project configuration file for SQL (\*.icd), and then click **Open**.

If the database has already been used in the inter-case deduplication process, the Mode will change to **Resume/Append**.

### To add cases

1. Click the **Add** button.

Or on the **Case** menu click **Add**.

- 2. Browse to and select the project.ini file for the case, located in the root of the LAW case folder.
- 3. Click **Open**.

Cases can also be added to the list by dragging and dropping one or more root case folders (folder containing the project.ini) or the project.ini file itself into the Member Cases grid. Once added, the case names and paths will be listed in the grid and the number in parentheses beside Member Cases will increment by one for each added case. Since the cases are validated at the time they are added to the grid, an error will occur at this time if the case does not meet the requirements for inter-case deduplication, such as the case not being ED-enabled.

Once the member cases have been added, the Up and Dn keys (or Case > Move Up | Move Down) may be used to specify the order in which records are deduplicated. The first case shown in the grid will be processed first, the second case is next, and so on. These buttons can only be used in New or Rebuild/Flush mode.

The Remove button (or Case > Remove) can be used to remove the selected LAW case from the Member Cases grid. The Clear button (or Case > Clear) will remove all cases from the grid. These buttons can only be used in New or Rebuild/Flush mode.

### To determine deduplication status

Once the external database has been specified, the options have been set, and the member cases have been added, click **Begin** to start the inter-case deduplication process. Note the following facts about the Inter-Case Deduplication Progress screen:

- The **Progress** area provides both visual (progress bar) and textual indicators of how much work is remaining and what has been done thus far.
- The **Errors** value is a count of all errors that occurred during processing. The total error count will be displayed in a summary screen once processing has been completed.
- The **Summary** screen will appear once the deduplication process has been completed, canceled, or aborted due to some sort of error condition. For a successful process, the summary will show the Digest and Scope options that were selected and the total number of member cases included in the process. The summary will also list total counts for documents loaded, duplicate records, and errors at a case level. The "Documents Loaded In This Session" value is the total number documents, not including any attachment records, that were loaded in the current deduplication session. The "Duplicates" value will show the total number of duplicates in each listed case and also does not include any attachment records in the count.
- If errors occurred during processing, a **View Errors** button will be included at the bottom of the Summary screen. Click this button to view the error details. The log file that appears is stored in <drive>\Documents and Settings\<user>\Application Data\Law50\LawInterCaseDedup\LawInterCaseDedup.ErrorLog.txt. The Elapsed field displays the amount of time that has passed during the process.
- If an error occurs during processing that aborts the deduplication process completely, the **Summary** screen will appear with a message stating the process was aborted. Similar behavior will occur if the process is cancelled by the user. The Summary screen will appear with a message stating the process was cancelled.
- To save the contents of the summary to a text file:
  - 1. On the File menu, click Save As from the Summary screen.
  - 2. Browse to the desired location, type a file name, and then click **Save**.
- Errors that halt processing or cancelling the deduplication process will both result in the database entering Rebuild/Flush mode.

### Deduplication fields

LAW contains a number of system fields to store deduplication-related information about each document in a case. The Inter-Case Deduplication utility writes to two of those fields (\_DupID and \_DupMethod) differently than the ED Loader or Turbo Import deduplication and Deduplication Utility in CloudNine<sup>™</sup> LAW. Please see the <u>Deduplication</u> <u>Information</u> topic for a list of these fields, their descriptions, and possible values. Field information for all LAW fields can also be found in the Field Descriptions topic.

# Deduplication mode values

The Mode indicator shown below the External Deduplication Database path will display one of four possible mode values:

- **No Database Selected** This mode will be set when no external deduplication database is selected. See the "External Deduplication Database" section above for information on creating and opening existing databases.
- **New** This mode will be set when the selected external deduplication database has not yet been involved in the inter-case deduplication process. The New mode will occur when a new database is created or when an existing database is selected but has not yet been through the deduplication process.
- **Resume/Append** This mode will be set when the selected external deduplication database has already been through the deduplication process. When the external database is in this mode, only documents added to member cases since the database's previous deduplication session will be added and deduplicated against each other and the existing documents in the database. When the process is run again on this existing database, the Summary screen will show the total number of documents added in the session (documents loaded in member cases after previous deduplication session) and the total number of duplicates in the cases.
- **Rebuild/Flush** This mode indicates that the external database was previously in Resume/Append mode, but a change was made to one of the member cases that requires that the external database be rebuilt. Functionally, this mode is the same as the New mode, as the cases will need to be re-deduplicated once this mode has been assigned. A "Click here for 'Rebuild/Flush' details" link will become available beside the mode value. Clicking this link will launch a message box that lists the reasons why the deduplication database was placed in Rebuild/Flush mode. The following actions are possible reasons for this mode or occur:
  - Cancelling the inter-case deduplication process
  - Deleting a document from a member case
  - Renaming, removing, or adding a custodian in a member case when the Custodian Level scope was used
  - Deduplicating a member case using ED Loader or Turbo Import Deduplication or the internal Deduplication Utility

The **Refresh** button can be used to inspect member cases for changes that may the mode. If changes are detected, the mode will be updated to the correct state.

### To review duplicates

The Duplicate Viewer is a tool that can be used to review records in a case or multiple cases that have been flagged as duplicates by one of LAW's deduplication methods (<u>ED</u> <u>Loader Deduplication</u>, <u>Turbo Import Deduplication</u>, <u>Deduplication Utility</u>, or Inter-Case Deduplication).

Please see the <u>Duplicate Viewer</u> topic for details.

## □ <u>To apply duplicate relationships to original files (Version 6.17+)</u>

Once the files in a case have been imported and deduplicated, you can apply duplicate relationships to the original files associated with duplicate files using the Apply Duplicate Relationships command in CloudNine<sup>™</sup> LAW.

The Apply Duplicate Relationships command populates the following fields for the original files that have duplicate files in a case:

- DupCustNames
- DupCustPaths
- DupParentName
- DupParentPath

The fields indicate the custodian name and location of the duplicate files and the parents of the duplicate files. For more information about these fields, see Field Descriptions.

For more information, see <u>Applying Duplicate Relationships</u>.

# **Duplicate Viewer**

The Duplicate Viewer is a tool that can be used when reviewing records in an ED-enabled or Turbo Import enabled case that were flagged as duplicates or near duplicates. Records are flagged as duplicates by one of the deduplication methods: <u>ED Loader Deduplication</u>, <u>Turbo Import Deduplication</u>, <u>Deduplication Utility</u>, or <u>Inter-Case Deduplication</u>. And records are flagged as near duplicates by the <u>Near-Duplicate Analysis</u>. This viewer contains two tabs: Duplicates and Near-Duplicates, and presents a tree view of documents identified as duplicates or near duplicates. On the Duplicates tab, you can select documents to see whether or not the record is a duplicate, and then navigate to any duplicates to see whether or not the record is a near duplicates tab you can select documents to see whether or not the record is a near duplicate, and then navigate to any duplicates to any near duplicates that exist in the current case.

The Duplicate Viewer displays on top of the main LAW form. When you navigate documents in the main document list or in one of the grid displays the viewer updates, ensuring the duplicate or near-duplicate information matches the current record.

For more information about using the Duplicate Viewer for near duplicates, see <u>Viewing</u> <u>Near Duplicates</u>.

☑ Attachment records are not listed in the Duplicate Viewer.

# **<u>To start the Duplicate Viewer</u>**

1. In the main window, in the folder tree, select a file.

# 2. On the **Tools** menu, click **Duplicate Viewer**.

Clicking Duplicate Viewer opens the Duplicates tab in the Duplicate Viewer dialog box. The file that you selected is listed either as a duplicate or not. The following graphic shows a file determined not to be a duplicate:

🖹 Duplicat	te Viewer			
Duplicates	Near-Duplicates			
Docid: 0	0000061 is not a duplicate			
Chalabarra				
Click here to retrieve the deduplication status of the case				
Note: Attac	nments are not listed in this view			

The next graphic shows three files determined to be duplicates.

Duplicate Viewer
Duplicates Near-Duplicates
Docld: 00000222 [_Dupld: 214] Docld: 00000436 (G) Docld: 00007752 (G)
Click here to retrieve the deduplication status of the case
Note: Attachments are not listed in this view

- If the file is determined to be a duplicate, it appears in the context of a tree control connected to its duplicates.
- The top-level duplicate file is assigned a duplicate ID, which is visible after the record ID,
- 3. Navigate to any file in the tree control by clicking on it.

# **<u>To interpret duplicate status of a file</u>**

The possible statuses the Duplicate Viewer provides are described in the following table:

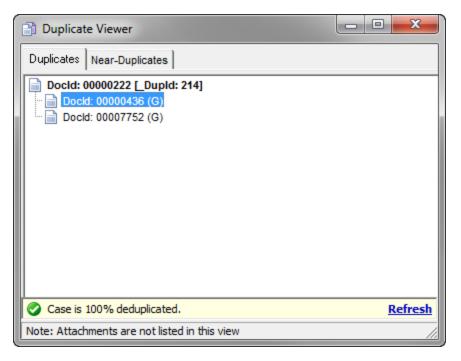
Status	Description
There is currently no document selected.	When Duplicate Viewer was started, no document was selected.
	Close the viewer, select a file from the folder tree, and then restart the viewer.
Document does not appear to be ED (native) document.	The document selected is a TIFF or other non- native file type.
	Close the viewer, select a different file, and then restart the viewer.

# To retrieve the duplicate status of a case

1. In the main window, on the **Tools** menu, click **Duplicate Viewer**.

Duplicat	e Viewer		
Duplicates	Near-Duplicates		
Docid: 0	0000061 is not a duplicate		
Click here	to retrieve the deduplication status of the c	ase	
	ments are not listed in this view		

- 2. On the **Duplicates** tab, select the **Click here to retrieve the deduplication status of the case** link.
- 3. The deduplication status for the case appears in the lower-left area of the window.



The possible statuses the Duplicate Viewer provides are described in the following table:

Status	Description
Case is 100% deduplicated.	The number of deduplicated records in the case matches the number of records in the case.
<error> Could not determine the case level deduplication status.</error>	The number of deduplicated records in the case is less than the number of documents in the case. This result could be caused, for example, if new files were added to a case after the case was deduplicated.

# **Applying Duplicate Relationships**

Once the files in a case have been imported and deduplicated using ED Loader, Turbo Import, or the Duplication Utility in CloudNine<sup>™</sup> LAW, you can apply duplicate relationships to the original files associated with duplicate files using the Apply Duplicate Relationships command in CloudNine<sup>™</sup> LAW. The Apply Duplicate Relationship command is available on the Tools menu (Tools menu > Apply Duplicate Relationships) and on the Tools tab in the Deduplication Utility.

☑ The Apply Duplicate Relationship command cannot be used on files deduplicated using the Inter-Case Deduplication Utility.

The Apply Duplicate Relationships command populates the following fields for the original files that have duplicate files in a case:

- DupCustNames
- DupCustPaths
- DupParentName
- DupParentPath

The fields indicate the custodian name and location of the duplicate files and the parents of the duplicate files. For more information about these fields, see Field Descriptions.

For more information about running the Apply Duplicate Relationships command from the Deduplication Utility, see <u>Deduplication Utility</u>.

# To apply duplicate relationships from the Tools menu

1. In the main LAW window, on the **Tools** menu, click **Apply Duplicate Relationships**.

Clicking **Apply Duplicate Relationships** starts the command. When the process is completed the **Duplicate Relationship Update Status** dialog box opens.

Duplicate Relationship Update Status					
<b>i</b>	Families Updated: Total Updates:	n and path relationships were successfully updated. 297 834 00:00:02 OK			

The **Duplicate Relationship Update Status** dialog box indicates whether duplicate custodian and path relationships were successfully updated, and indicates the total number of document families that were updated, the total number of files updated, and the amount of time it took for the process to complete.

2. Click OK to close the Duplicate Relationship Update Status dialog box.

# Near-Duplicate & Email Thread Analysis

# About Near-Duplicate & Email Thread Analysis

Near duplicates are documents that have duplicate content, but are not necessarily exact duplicates of each other. Email threads are email messages belonging to the same email conversation thread. An email thread includes the original email message, all of the subsequent replies pertaining to the original email, and any attachments to the email messages. In CloudNine™ LAW, you can run the Near-Duplicate & Email Thread Analysis utility to identify the near-duplicate documents and email threads within a case. The Near-Duplicate & Email Thread Analysis utility uses the CloudNine Near Dupe and CloudNine Email Thread engines.

- ✓ The Near-Duplicate & Email Thread Analysis utility can only run on SQL LAW cases that have been enabled for electronic discovery. The utility is not supported for Access cases.
- The Near-Duplicate & Email Thread Analysis utility can only run on one machine at a time.

In order to use the Near-Duplicate & Email Thread Analysis utility, you will need the Near-Duplicate/Email Thread license. You will also need the license to see the near-duplicate results, status, and compare near-duplicate documents from the Duplicate Viewer. The Near-Duplicate & Email Thread license is only used by LAW on an as-needed basis, so the license is only displayed in the in the LAW Profile Manager (Administration Mode). The license is not displayed in the license list in the LAW Management Console (LMC) or License Information dialog box (Help > About LAW > Licenses).

### Near-Duplicate Analysis

After running the near-duplicate analysis, you can view the near-duplicate results and compare near-duplicate documents from the Near-Duplicates tab in the Duplicate Viewer dialog box.

The Duplicate Viewer indicates the case's near duplication status, the number of nearduplicate documents associated with the selected document, and the percentage of similarity between the near-duplicate documents and the original "master" document. Near-Duplicate & Email Thread Analysis identifies documents with redundant text to help ensure you are only processing documents essential to the case. The Near-Duplicate & Email Thread Analysis results include near-duplicate documents without text. For email messages, the Near-Duplicate & Email Thread Analysis only compares the email message body content between email messages. It does not compare email headers or quoted prior messages.

In near duplication, a family is a collection of one or more near-duplicate documents. The near-duplication process assigns a master document to each family. The master document is the document most representative of the document family. Within a family, the master document is the one with the greatest overall similarity to all the other documents in the family. It has to be a near-duplicate of every other document in the family. The Family Threshold setting in the Near-Duplicate & Email Thread Analysis utility determines the percentage of similarity between the master document and the documents within its document family.

A document cluster contains documents more loosely related to each other than a document family. The documents in a cluster contain similar content. How similarly the documents are related is determined by the Cluster Threshold setting. Documents assigned to a document cluster will have a percentage of similarity at or above the current Cluster Threshold setting in the Near-Duplicate & Email Thread Analysis utility. Documents which have no direct relationship to each other might still belong to the same cluster, as long as there is some chain of relationships at or above the Cluster Threshold setting that connects them. There is no limit on how long this chain can be, so two documents in the same cluster may be very distant cousins with no apparent similarity.

You can also view near-duplicate information for the case by reviewing the data in the near-duplicate fields created and populated by the utility. You can review the near-duplicate fields for individual case documents on the Index tab in the main LAW window or review near-duplicate fields for multiple documents in the grid view.

For more information, see <u>Viewing Near Duplicates</u>.

### Near-Duplicate Fields

After running the near-duplicate analysis, 7 near-duplicate fields are automatically added to the case's field list and populated with the applicable near-duplicate data for the case's documents.

# **Near-Duplicate Fields:**

- ND\_ClusterID
- ND\_ContentHash
- ND\_FamilyID
- ND\_IsMaster
- ND\_ResultSet
- ND\_Similarity
- ND\_Sort

For more information about these and other LAW fields, see Field Descriptions.

# Email Thread Analysis

After running the email thread analysis, you can view email thread information for the case by reviewing the data in the email thread fields created and populated by the utility. You can review the email thread fields for individuals case documents on the Index tab in the main LAW window or review email thread fields for multiple documents in the grid view.

For more information, see <u>Viewing Email Threads</u>.

# Email Thread Fields

After running the email thread analysis, 13 email thread fields are automatically added to the case's field list and populated with the applicable email thread data for the case's documents.

# **Email Thread Fields:**

- ET\_Conversants
- ET\_Inclusive
- ET\_InclusiveReason
- ET\_Indent

- ET\_IsMessage
- ET\_MessageId
- ET\_MetaUpdate
- ET\_ParentId
- ET\_ThreadId
- ET\_ThreadIndex
- ET\_ThreadModified
- ET\_ThreadSize
- ET\_ThreadSort

For more information about these and other LAW fields, see Field Descriptions.

# Running Near-Duplicate & Email Thread Analysis

Before you can view near duplicates and email threads in a case, you will need to run the near-duplicate analysis and email thread analysis using the Near-Duplicate & Email Thread Analysis utility. Once you run the near-duplicate analysis and email thread analysis, you can view near-duplication information and view and compare duplicates for the case, and view the email threads in the case. In the Near-Duplicate analysis or email thread Analysis utility, you can choose whether to run just the near-duplicate analysis or email thread analysis, or run both analyses for a case.

### To run the Near-Duplicate & Email Thread Analysis

The Near-Duplicate/Email Thread license is required to run the Near-Duplicate & Email Thread Analysis utility.

### 1. On the Tools menu, click Near-Duplicate & Email Thread Analysis.

Clicking Near-Duplicate & Email Thread Analysis opens the Near-Duplicate & Email Thread Analysis dialog box, and the Near-Duplicate & Email Thread Analysis utility automatically runs, examining the case and displaying the case's current near-duplication and email thread status. The **Refreshing** status is displayed while the utility examines the case. After the utility finishes examining the case, the **Up** to date or Out of date status is displayed for Near Duplicate and Email Threading.

If you import a LAW case using the File menu > Import menu > Law Case feature,

and the case's documents have already been analyzed by the Near Duplicate & Email Thread Analysis utility, the status will be displayed as Out of Date until you re-run the utility against the imported case.

🥪 Near-Duplicate & Email Thread Analysis	<b>X</b>
This utility will automatically examine the current LAW PreDiscovery® generate a near-duplicate index and email threads of its contents.	case and
☑ Near-Duplicate <u>(Settings)</u>	Out of date
Pending Work:	8,330
Email Threading (Settings)	Out of date
Pending Work:	8,330
Documents with Tag	0
Scope analysis to specified tag:	
Produce	T
Preserve existing near-duplicate families and master documents	
	Start

The following near-duplicate information is displayed for the current case:

- Near-Duplicate. The near-duplicate analysis status for the current case.
- **Pending Work.** Total number of documents to be analyzed for near-duplicates in the current case.
- Email Threading. The email thread analysis status for the current case.
- **Pending Work.** Total number of documents to be analyzed for email threads in the current case.
- **Documents with Tag.** Total number of documents in the current case assigned the tag currently selected in the Scope analysis to specified tag list. If the **Scope analysis to specified tag** check box is not selected, the **Documents with Tag** field is set to **0**.
- 2. To run the near-duplicate analysis, select the **Near-Duplicate** check box.

To disable the near-duplicate analysis, clear the **Near-Duplicate** check box.

If the near-duplicate analysis status is **Out of date**, the **Near-Duplicate** check box will automatically be selected. If the near-duplicate analysis status is **Up to date**, the **Near-Duplicate** check box is not selected.

3. To run the email thread analysis, select the **Email Threading** check box.

To disable the email thread analysis, clear the **Email Threading** check box.

If the email thread analysis status is **Out of date**, the **Email Threading** check box will automatically be selected. If the email thread analysis status is **Up to date**, the **Email Threading** check box is not selected.

Each time the **Near-Duplicate & Email Thread Analysis** dialog box is opened, it will retain the last settings for the **Near-Duplicate** and **Email Threading** check boxes.

4. If you want to modify the near-duplicate analysis settings, click the **Settings** link next to **Near Duplicate**.

Clicking the <b>Settings</b> link opens the <b>Near-Duplicate Settings</b> dialog l
---

plicate (Settings) Near-Duplicate Settings					
Cluster Threshold:	- 70				
Family Threshold:	- 85				
Ignore email headers and conversation history	,				
Note: The data may need to be reprocessed after changing settings. This operation cannot be undone.					
OK Cancel					

If you modify any of the settings in the Near-Duplicate Settings or Email Threading Settings dialog box, you may need to rerun the Near-Duplicate & Email Thread Analysis utility to apply the new near duplicate and email threading settings to the case.

If you need to rerun the utility to reanalyze the case documents after changing the settings, the **Near-Duplicate** and/or **Email Threading** status change from **Up to date** to **Out of date**.

5. The Cluster Threshold setting determines the minimum similarity to be considered when assigning clusters of related documents. The Family Threshold setting determines the minimum similarity to be considered when assigning documents to near-duplicate families. By default, the Cluster Threshold is set to 70 and the Family Threshold is set to 85. Once you run the Near-Duplicate & Email Thread Analysis utility, the utility retains the last cluster and family threshold settings. If you want to change the cluster Threshold and/or Family Threshold settings.

To adjust the **Cluster Threshold** and **Family Threshold** settings, click and move the slider to the left or right to change the threshold. Moving the slider to the right increases the threshold, and moving the slider to the left decreases the threshold.

The **Ignore email headers and conversation history** check box determines whether the Near-Duplicate & Email Thread Analysis utility performs the nearduplicate analysis on all text within an email message or only the top-level message body of an email message. By default, the check box is not selected. When the check box is not selected, the near-duplicate analysis is performed on all text within an email message.

- 6. To limit the near-duplicate analysis to only the top-level message body for email messages, select the Ignore email headers and conversation history check box. To have the near-duplicate analysis review all text within an email message, make sure the Ignore email headers and conversation history check box is not selected.
- 7. Click **OK**.

Clicking **OK** saves the near-duplicate settings and closes the **Near Duplicate Settings** dialog box.

8. If you want to modify the email threading analysis settings, click the **Settings** link next to **Email Threading**.

Clicking the Settings	link opens the	<b>Email Threading Settings</b>	dialog box.

Email Threading Settings
Populate email metadata from analyzed text Note: This setting will populate the EMail_Subject, DateSent, TimeSent, From, To, BCC, CC and Attach fields if no values are set in any of these fields. OK Cancel

If you modify any of the settings in the Near-Duplicate Settings or Email Threading Settings dialog box, you may need to rerun the Near-Duplicate & Email Thread Analysis utility to apply the new near duplicate and email threading settings to the case.

If you need to rerun the utility to reanalyze the case documents after changing the settings, the **Near-Duplicate** and/or **Email Threading** statuses change from **Up to date** to **Out of date**.

The **Populate email metadata from analyzed text** check box determines whether the Near-Duplicate & Email Thread Analysis utility will populate the following fields from the text analyzed in the email messages:

▲ Please note that if there are values in the following fields from extracted metadata and **Populate email metadata from analyzed text** is enabled, then the values will be overwritten with the information from the text. In some cases the values may be overwritten with blank values, if LAW had extracted the metadata during import for the field and there is not a value showing in the text.

This feature is best utilized when performed on emails that were previously converted to PDF format and do not have any metadata for the following fields.

EMail\_Subject DateSent TimeSent From To BCC CC Attach

The Near-Duplicate & Email Thread Analysis utility also populates the ET\_MetaUpdate field. If the check box is selected, then ET\_MetaUpdate field is populated with a Y for yes. If the check box is not selected, the ET\_MetaUpdate field is populated with an N for no.

For more information about these fields see, Field Descriptions.

By default, the **Populate email metadata from analyzed text** check box is not selected. Once you run the Near-Duplicate & Email Thread Analysis utility, the utility retains the last **Populate email metadata from analyzed text** check box setting.

9. If you want the utility to populate the fields if they do not contain any values, select the **Populate email metadata from analyzed text** check box.

Clear the check box if you do not want the utility to populate the fields.

10. Click **OK**.

Clicking **OK** saves the email threading settings and closes the **Email Threading Settings** dialog box.

By default, the **Scope analysis to specified tag** check box is not selected and the **Preserve existing near-duplicate families and master documents** check box is selected. Once you run the utility the check boxes retain the last settings for the check boxes. So if a check box was selected, the next time you open the Near-Duplicate & Email Thread Analysis utility, the check box will be selected.

11. If you want the Near-Duplicate & Email Thread Analysis utility to only analyze documents containing a specific tag, select the **Scope analysis to specified tag** check box and in the tag list, click the applicable tag.

When the **Scope analysis to specified tag** check box is selected, the **Document with Tag** field displays the number of documents in the case the selected tag is currently applied to.

When the **Preserve existing near-duplicate families and master documents** check box is selected, the Near-Duplicate & Email Thread Analysis utility will retain the existing near-duplicate family and master document IDs already assigned to the documents in the ND\_IsMaster and ND\_FamilyhID fields when the utility previously ran. Any new documents identified in an existing near-duplicate family will be added into the existing near-duplicate family.

When the **Preserve existing near-duplicate families and master documents** check box is not selected any existing near-duplicate family and master document data, such as IDs, is deleted and new near-duplicate data is assigned to all master documents and documents within a near-duplicate family.

12. If you want to retain existing near-duplicate family and master document data, select the **Preserve existing near-duplicate families and master documents** check box.

Clear the check box if you want to delete existing near-duplicate family and master document data and have the utility reassign new near-duplicate data.

13. Click the **Start** button.

Clicking the **Start** button saves all the near-duplicate and email threading settings and starts the Near-Duplicate & Email Thread Analysis utility. The **Near Duplicate & Email Thread Analysis** status dialog box is displayed while the utility runs.

Sear-Duplicate & Email Thread Analysis	×
Step 3 of 9: Near-Duplicate: Grouping	95 %
Elapsed time: 00:01:00	Cancel

If the Near-Duplicate & Email Thread Analysis utility encounters any errors during the process, an error log is generated and saved as a .log file in the LAW case directory. By default, the near-duplicate and email thread analysis error logs are stored in the **...Program Files (x86)\Law50\Cases\[case name folder] \\$Logs\NearDup** directory.

During the near-duplicate and email thread analysis process, the utility generates a near-duplicate and email threading index of every case file, unless the **Scope analysis to specified tag** check box is selected. In that scenario, the utility generates a near-duplicate and email threading index of the case files tagged with the selected tag. Once the Near-Duplicate & Email Thread Analysis utility

successfully finishes running, the *Analytics Processing Complete* message is displayed.

Rear-Duplicate & Email Thread Analysis	<b>x</b>
Analytics Processing Complete	
Total Documents in Case:	24,828
Near-Duplicate Results Generated:	24,828
Email Threading Results Generated:	24,828
Processing Time:	0:06:28
	Close

# 14. Click **Close**.

If you ran the near-duplicate analysis, you can now view and compare the case's near-duplicate documents in the **Duplicate Viewer** dialog box. If you ran the email thread analysis, you can now view the email threading information for the case's documents in the grid view.

For more information, see <u>Viewing Near Duplicates</u> and <u>Viewing Email Threads</u>.

# **Viewing Near Duplicates**

Before you can view near duplicates in a case, you will need to run the near-duplicate analysis in the Near-Duplicate & Email Thread Analysis utility. Once you run the analysis, you can view a case's near-duplication status in the Near-Duplicate & Email Thread Analysis dialog box and view and compare near duplicates from the Near-Duplicates tab in the Duplicate Viewer dialog box. Document clusters are not displayed in the Duplicate Viewer dialog box.

You can also view a case's near-duplicate information in the near-duplicate fields generated by the Near-Duplicate & Email Thread Analysis utility. You can view nearduplicate information for individual documents on the Index tab in the main LAW window, or view near-duplicate information for multiple documents at one time using the grid view. The same can be done for the email thread fields created and populated by the Near-Duplicate & Email Thread Analysis utility.

### To view a document's near duplicates

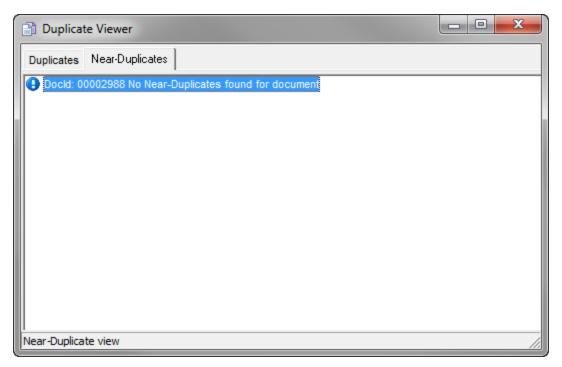
1. In the main window, in the folder tree, select a file.

2. On the **Tools** menu, click **Duplicate Viewer**.

Clicking **Duplicate Viewer**, opens the **Duplicates** tab in the **Duplicate Viewer** dialog box.

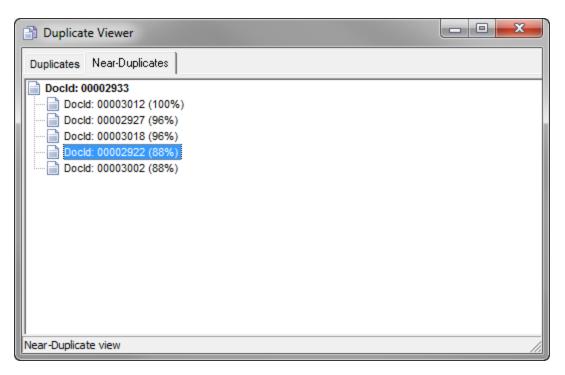
3. Click the **Near-Duplicates** tab.

If there are no near duplicates associated with the selected file, *No Near-Duplicates found for document* is displayed next to the file's DocId.



If there are near duplicates associated with the selected file, the near duplicates, their DocID, and the percentage of similarity between the near-duplicate documents and the master document are listed below the master document's DocId.

In the following example, there are five near duplicates associated with the selected file.



The Duplicate Viewer and and the main window in LAW are synchronized, so you can navigate to any file listed on the Near-Duplicates tab by clicking the file in the tree view. The selected file is automatically selected and displayed on the main window in CloudNine<sup>TM</sup> LAW.

### To compare a document to its master document

The near duplication process assigns a master document to each document family. The master document is the document most representative of the document family. A master document is usually the original document in an e-mail thread, or the document in a document family or document cluster with the earliest date.

In LAW you can compare a document with its master document or compare two related near-duplicate documents. Next to each document listed on the Near-Duplicates tab in the Duplicate Viewer dialog box is a percentage. The percentage indicates the similarity between the near-duplicate documents and the original "master" document.

- 1. In the main window, in the folder tree, select the file you want to compare with its master document.
- 2. On the **Tools** menu, click **Duplicate Viewer**.

Clicking **Duplicate Viewer**, opens the **Duplicates** tab in the **Duplicate Viewer** dialog box.

3. Click the Near-Duplicates tab.

4. Right-click on the DocID for the document, and then click **Compare to Master**.

Duplicate Viewer	
Duplicates Near-Duplicates	
Docld: 00010691 Docld: 00003300 (100%) Docld: 00010680 (91%) Docld: 00003289 (91%) Compare to Master Compare Documents	
l Near-Duplicate view	

You can also right-click on any near-duplicate document associated with the selected document, and click **Compare to Master** to compare the near-duplicate document to the master document.

Clicking **Compare to Master** opens the **Near-Duplicate Viewer** dialog box for the selected document and the master document.

🚱 Near-Duplicate Viewer	x
<< First < Prev 3 of 9 Next > Last >>	
From: <del>Unspecified Sender</del> Theresa Zucha Sent: Set Th ur s day, <del>November 30</del> April 19 , 200 <del>2 12</del> 1 5 :00 AM To: Subject: Luncheon: Houston Club/9th floor/Grill Room-Nancy Furney speaker	*
Ten things every corporate counsel should know about employee benefits	
******** EDRM Enron Email Data Set has been produced in EML, PST and NSF format by ZL Technologies, Inc. This Data Set is licensed under a Creative Commons Attribution 3.0 United States License <http: 3.0="" by="" creativecommons.org="" licenses="" us=""></http:> . To provide attribution, please cite to "ZL Technologies, Inc. (http://www.zlti.com)." *****	
	Ŧ
Comparing: '59.txt' (00010680) to '70.txt' (00010691)	

The differences between the selected document and the master are displayed in red text, with the original value struck out and the new value is displayed in bold next to the original value.

At the top of the **Near-Duplicate Viewer** dialog box are navigation buttons. Between the **First** and **Prev** buttons and the **Next** and **Last** navigation buttons, the number of the current difference out of the total number of differences between the selected document and its master are displayed. The difference currently selected is highlighted in blue. You can also navigate to the previous difference using the left arrow keyboard button, and navigate to the next difference using the right arrow keyboard button.

If the documents match 100%, the navigation buttons are disabled and **0 of 0** is displayed, and the document content is not marked up in the **Near-Duplicate Viewer** dialog box.

The name of the files being compared is displayed in the lower-left corner of the dialog box. You can have more than one **Near-Duplicate Viewer** dialog boxes open at one time.

🔯 LAW PreDiscovery® - 👔 Duplicate V	liewer		1				
<u>File Scan Edit</u> Fol Duplicates Ne	ear-Duplicates						
	10691 0003300 (100%) 0010680 (91%)		ex 🧿	Grid View			
	0003289 (91%)		lian	0000	3289		
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			-		Text Markup Language		
	<del>ed Sender</del> Theresa Zucha : day, <del>November 30</del> June 21 , 200 <del>2-12</del> 1 5 :00 AM			3			
				N			
To:		Noar Duplicato Via	wor	_			
To: Subject: Ethical	Considerations Facing In-Houst Counsel: How to	🛐 Near-Duplicate Vie	wer				
To: Subject: Ethical	Considerations Facing In-Houst Counsel: How to	🛃 Near-Duplicate Vie		<< First	< Prev 0 of 9 Next		
To: Subject: Ethical	Considerations Facing In-Houst Counsel: How to		[				
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### ☐ <u>To compare two near-duplicate documents</u>

Besides comparing a document with its master document, you can also compare two near-duplicate documents that belong to the same near-duplicate family or cluster.

- 1. In the main window, in the folder tree, select the file you want to compare with another document.
- 2. On the **Tools** menu, click **Duplicate Viewer**.

Clicking **Duplicate Viewer**, opens the **Duplicates** tab in the **Duplicate Viewer** dialog box.

- 3. Click the Near-Duplicates tab.
- 4. Select the two documents you want to compare.

To select two documents, click the DocId for the first document, then press and hold down the **Ctrl** key, and then click the DocId for the second document.

5. Right-click on the selected documents, and then click **Compare Documents**.

Duplicate Viewer	
Duplicates Near-Duplicates	
Docld: 00010688 Docld: 00010697 (90% Docld: 00003306 (90% Compare to Master Compare Documents	
Near duplicate view	11.

Clicking **Compare Documents** opens the **Near-Duplicate Viewer** dialog box for the selected documents.

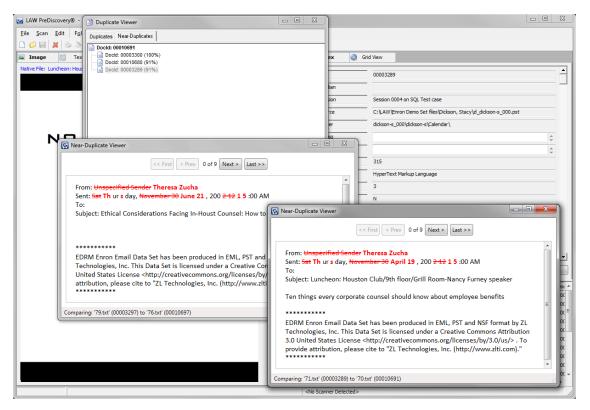
Image: Control of the series of the serie	Near-Duplicate Viewer	
Sent: Set Th ur s day, November 30 June 21 , 200 2-12 1 5 :00 AM To: Subject: Ethical Considerations Facing In-Houst Counsel: How to Vaoid the Pitfalls ********* EDRM Enron Email Data Set has been produced in EML, PST and NSF format by ZL Technologies, Inc. This Data Set is licensed under a Creative Commons Attribution 3.0 United States License <http: 3.0="" by="" creativecommons.org="" licenses="" us=""></http:> . To provide attribution, please cite to "ZL Technologies,	<< First < Prev 6 of 9 Next > Last >>	
EDRM Enron Email Data Set has been produced in EML, PST and NSF format by ZL Technologies, Inc. This Data Set is licensed under a Creative Commons Attribution 3.0 United States License <http: 3.0="" by="" creativecommons.org="" licenses="" us=""></http:> . To provide attribution, please cite to "ZL Technologies,	Sent: <del>Sat</del> Th ur s day, <del>November 30</del> June 21 , 200 <del>2 12</del> 1 5 :00 AM To:	
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Comparing: '79.txt' (00003297) to '76.txt' (00010697)		

The differences between the selected documents are displayed in red text, with the original value struck out and the new value is displayed in bold next to the original value.

At the top of the **Near-Duplicate Viewer** dialog box are navigation buttons. Between the **First** and **Prev** buttons and the **Next** and **Last** navigation buttons, the number of the current difference out of the total number of differences between the selected document and its master are displayed. The difference currently selected is highlighted in blue. You can also navigate to the previous difference using the left arrow keyboard button, and navigate to the next difference using the right arrow keyboard button.

If the documents match 100%, the navigation buttons are disabled and **0 of 0** is displayed, and the document content is not marked up in the **Near-Duplicate Viewer dialog** box.

The name of the files being compared is displayed in the lower-left corner of the dialog box. You can have more than one **Near-Duplicate Viewer** dialog boxes open at one time.



### To view near-duplicate information for individual documents

1.	On the Index tab, click the ellipsis button,		, next to	the	Profile li	ist.
----	--	--	-----------	-----	------------	------

 $\square$ 

DocID	00001931
Custodian	
EDSession	Session 0001 on Near Duplicate & Email Thread
EDSource	C:\LAW\Enron Demo Set files\Bailey, Susan\zl_bailey-s_000.p
EDFolder	bailey-s_000\bailey-s\All documents\
ErrorMsg	÷
PrevErrMsg	
FileType	315
FileDescription	HyperText Markup Language
FileAccuracy	3
SuspectExt	Ν
DocExt	htm
OrigExt	
SourceApp	Internet Explorer 👻
Filename	SWAP Group - Sr. Specialist selection, EB38c2.htm

Clicking the ellipsis button opens the **Modify Fields** dialog box.

2. Select the **Visible** check box next to each near-duplicate field you want to be displayed.

Add Field 🔥 🕻	elete Field	save changes	Apply Template 🔛 Save Template 🛛 📝 Edit List						Field Profiles +			
Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	<b></b>	Field Order:			
Language	Document	Text	1		$\checkmark$				DocID			
LastAuthor	Document	Text	1		<b>V</b>				Custodian			
MD5Hash	Document	Text	1		$\checkmark$				EDSession EDSource			
MsgClass	Document	Text	1		<b>V</b>				EDFolder			
NativeFile	Document	Memo	1		$\checkmark$				ErrorMsg			
ND_ClusterID	Document	Text	1		$\checkmark$				PrevErrMsg			
ND_ContentHash	Document	Text	1		$\checkmark$				FileType			
ND_FamilyID	Document	Text	1	2	$\checkmark$				FileDescription			
ND_IsMaster	Document	Text	1		4				FileAccuracy SuspectExt			
ND_ResultSet	Document	Text	1		4				DocExt			
ND_Similarity	Document	Numeric	1		1		✓	Ξ	OrigExt			
ND_Sort	Document	Numeric	1		$\checkmark$		R		SourceApp			
OcrAccuracy	Document	Numeric	1		1				Filename			
OcrFlag	Page	Text	1		<b>V</b>				Filesize EDPages			
OcrStatus	Document	Text	1		1				Title			
Organization	Document	Memo	1		<b>V</b>		•		Subject			
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- 3. Click **Save** to save the changes to the current profile or click **Save As** to create a new grid profile.
- 4. Click the **Close** button.

Clicking the **Close** button closes the **Modify Fields** dialog box, and the near-duplicate fields you selected the **Visible** check box for are now displayed on the **Index** tab.

For more information about showing and hiding fields, see <u>Customizing the Grid View</u>.

5. In the document list, click the document for which you want to view near-duplicate information.

Index ᠔	Grid View										
Inco.											
всс							÷				
Attach							*				
DateSent	05/09/2000										
TimeSent	02:00:00										
Produce	<no></no>						•				
Privileged	<no></no>						•				
ProduceND	<no></no>						•				
FileAccuracy	3										
ND_ClusterID	00004641	00004641									
ND_ContentHash	2DE45B7A8EA	2DE45B7A8EAB92C5E1B43DDD22A3A887ECE6333F									
ND_FamilyID	00003054										
ND_IsMaster	Ν										
ND_ResultSet	2										
ND_Similarity	85										
ND_Sort	25984							-			
> Profile: <a>Profile</a>	t>	▼		(	Update	e	Clea	r			
📔 Bailey, Susan		*		ItemNo	ImgExt	Pages	Page	Ra			
🔰 bailey-s_000				0001	-	0	-	_			
bailey-s_000			-	0002		0					
4 🍌 bailey-s	uments	=		0003		0					
Calend				0004		0					
	Contacts					0					
	ed Items		:	0005 0006		0					
🚺 Drafts	1			0007		0					
📗 Inbox				0008		0					
Notes	inbox			0008		0					
Sent I				0009							
	iems		1 1 1 1	1111111		0					

The near-duplicate information for the selected document is displayed in the near-duplicate fields.

#### □ <u>To view near-duplicate information for multiple documents</u>

 $1. \hspace{0.1in} \text{Search for the documents for which you want to view near-duplicate information.}$ 

For more information about searching, see <u>Creating Queries</u> and <u>Full Text Searching</u>.

- 2. Open the search results in the embedded or standalone grid view.
- 3. Right-click any column header.

Right-clicking a column header opens the **Field List** dialog box.

		w <u>Q</u> uery	-							
	à 🖗 🍫	D 🛍 📮		ğ 🥸 💣	S 🖗 🖗 🏅	🗿 🧐 😨	🐻 😭 Grid V	/ie <u>w</u> s ▼		
) n	ag a column he	ader here to gr	oup by that colum	n.						
Ι	DocID	Custodian	EDSession	EDSource	EDFolder	FrorMso	PrevErrMsg	FileType	FileDescription	FileAccuracy
Í	00002065	]	Session 000	C:\LAW\E	III Field List			315	HyperText M	3
Ι	00002066		Session 000	C:\LAW\E				315	HyperText M	3
	00002067		Session 000	C:\LAW\E	🗌 NativeFile			315	HyperText M	3
	00002068		Session 000	C:\LAW\E	ND_ClusterID			315	HyperText M	3
	00002069		Session 000	C:\LAW\E	□ ND_ContentH □ ND FamilvID	ash		315	HyperText M	3
	00002073		Session 000	C:\LAW\E	□ ND_IsMaster			315	HyperText M	3
	00002078		Session 000	C:\LAW\E	ND_ResultSet	t   [		315	HyperText M	3
	00002079		Session 000	C:\LAW\E	□ ND_Similarity □ ND_Sort			315	HyperText M	3
	00000350		Session 000	C:\LAW\E				315	HyperText M	3
	00000351		Session 000	C:\LAW\E	OcrStatus			315	HyperText M	3
	00000352		Session 000	C:\LAW\E	<ul> <li>Organization</li> </ul>	=		315	HyperText M	3
	00000353		Session 000	C:\LAW\E	✓ OrigExt □ Path			315	HyperText M	3
	00000354		Session 000	C:\LAW\E	PaCount			315	HyperText M	3
	00000356		Session 000	C:\LAW\E	✓ PrevErrMsg			315	HyperText M	3
	00000367		Session 000	C:\LAW\E	PrintJobName	_ [[		315	HyperText M	3
	00000371		Session 000	C:\LAW\E	ReadReceipt			315	HyperText M	3
I	00000372		Session 000	C:\LAW\Er	nr bailey-s_000			315	HyperText M	3
	00000373		Session 000	C:\LAW\Er	nr bailey-s_000			315	HyperText M	3
	00000374		Session 000	C:\LAW\Er	nr bailey-s_000			315	HyperText M	3
	cord: 🚺 📢	1 of 61	7 🕨 🖬 🖛							

- 4. Select the check box next to each near-duplicate field you want to be displayed in the grid view.
- 5. Close the Field List dialog box.

The near-duplicate fields are now displayed in the grid view.

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ND_ClusterID	ND_Content	ND_FamilyID	ND_IsMaster	ND_ResultSet	ND_Similarity	ND_Sort
00001413	374389ADE	00002058	Y	1	100	11529
00000219	6F28039F51	00002059	Y	1	100	5185
00000197	B22314495B	00002060	Y	1	100	5115
00002008	7D7526658A	00002061	Y	1	100	12455
00000450	D3C49CDD8	00002062	Y	1	100	5706
00000451	FF33AA3FE	00002066	Y	1	100	5710
00000270	6C11B3BDC	00002071	Y	1	100	5375
00002142	7F057025F9	00002072	Y	1	100	12708
00001385	30CE10217	00000343	Y	1	100	11465
00000003	2C2367B079	00000344	Y	1	100	1065
00002068	05E4D98617	00000345	Y	1	100	12565
00000659	95CAF84096	00000346	Y	1	100	6032
00000790	BD6338AF6	00001000	N	1	100	7669
00001033	25936C3D4	00000349	Y	1	100	10913
00002136	E425562E3C	00000360	Y	1	100	12699
00000638	12AFB8439E	00000364	Y	1	100	6006
00001651	1C13BA9C5	00000365	Y	1	100	11964
00000000		00000366	Y	1	100	13441
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Record: 🚺 🔳	1 of 617	► H <				•

For more information about showing and hiding fields and sorting records in the grid view, see <u>Customizing the Grid View</u>.

# **Promoting Tags to Near Duplicates**

When applying a tag to documents in a search result set, some near-duplicate documents may not match the search criteria and be excluded from the result set. The Promote Tag to Near-Duplicate feature allows you to tag near-duplicate documents, ensuring the same tag is applied to all applicable near-duplicate documents associated with the tagged search result set. You have the option of applying the tag to only the near-duplicate documents in the case identified by the Near-Duplicate & Email Thread Analysis utility, or to tag the entire document family associated with each near-duplicate document.

Before tags can be promoted to near-duplicate documents, the near-duplicate analysis in the Near-Duplicate & Email Thread Analysis utility must be run on the case, and the tag you want to apply to near-duplicate documents must be applied to the applicable search query.

#### To promote an existing tag to near duplicates

1. On the **Tools** menu, click **Promote Tag to Near-Duplicates**. The **Promote Tag to Near-Duplicates** dialog box opens.

Promote Tag to Near-D	uplicates
Source Tag:	Produce
Destination Tag:	ProduceND -
	o parent/attachment families grid when operation is complete
	OK Cancel

- 2. In the **Source Tag** field, click the tag applied to the documents in the search query that you want to apply to the near-duplicate documents identified by the Near-Duplicate & Email Thread Analysis utility.
- 3. In the **Destination Tag** list, click the tag you want to apply to the near-duplicate documents.

By default the **Promote tag to parent/attachment families** and **View results in grid when operation is complete** check boxes are selected.

When the **Promote tag to parent/attachment families** check box is selected, the tag selected in the **Destination Tag** list is applied to all near-duplicate documents identified by the Near-Duplicate & Email Thread Analysis utility, and all documents in the document families associated with each near-duplicate document.

When the **Promote tag to parent/attachment families** check box is not selected, the tag selected in the **Destination Tag** list is only applied to all near-duplicate documents identified by the Near-Duplicate & Email Thread Analysis utility. It is not applied to the document families associated with the near-duplicate documents.

When the **View results in grid when operation is complete** check box is selected, after the Promote Tag to Near-Duplicates process is completed, all of the documents the tag has been applied to are displayed in the **Search Results** grid view dialog box. When the check box is not selected, the **Search Results** grid view dialog box is not displayed after the process is completed.

 If you want to apply the tag to the near-duplicate documents and document families, make sure the **Promote tag to parent/attachment families** check box is selected.

If you only want to apply the tag to the near-duplicate documents, clear the **Promote** tag to parent/attachment families check box.

5. If you want to see the tagging results in the **Search Results** dialog box after the process is completed, makes sure the **View results in grid when operation is complete** check box is selected.

If you do not want to view the **Search Results** dialog box after the process is completed, clear the **View results in grid when operation is complete** check box.

6. Click **OK**.

After the process is completed, the following message is displayed:



7. Click **OK** to close the message.

If the **Promote tag to parent/attachment families** check box was selected, the **Search Results** dialog box opens.

•	Search Resu	ults										x
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Dr	ag a column	header here	to group by that	column.								
	Produce	ProduceND	DocID	Custodian	EDSession	EDSource	EDFolder	ErrorMsg	PrevErrMsg	FileType	FileDescription	Π
•			00000396		Session 000	C:\LAW\Enr	bailey-s_000			315	HyperText M	П
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#### **To promote a new tag to near duplicates**

1. On the Tools menu, click Promote Tag to Near-Duplicates. The Promote Tag to Near-Duplicates dialog box opens.

Promote Tag to Near-D	Duplicates
Source Tag:	Produce 👻
Destination Tag:	<create new="" tag=""></create>
	o parent/attachment families grid when operation is complete
	OK Cancel

- 2. In the **Source Tag** field, click the tag applied to the documents in the search query that you want to apply to the near-duplicate documents identified by the Near-Duplicate & Email Thread Analysis utility.
- 3. In the **Destination Tag** list, make sure **<Create New Tag...>** is selected.

By default the **Promote tag to parent/attachment families** and **View results in grid when operation is complete** check boxes are selected.

When the **Promote tag to parent/attachment families** check box is selected, the tag created from the **Destination Tag** list is applied to all near-duplicate documents identified by the Near-Duplicate & Email Thread Analysis utility, and all documents in the document families associated with each near-duplicate document.

When the **Promote tag to parent/attachment families** check box is not selected, the tag created from the **Destination Tag** list is only applied to all near-duplicate documents identified by the Near-Duplicate & Email Thread Analysis utility. It is not applied to the document families associated with the near-duplicate documents.

When the **View results in grid when operation is complete** check box is selected, after the Promote Tag to Near-Duplicates process is completed, all of the documents the tag has been applied to are displayed in the **Search Results** grid view dialog box. When the check box is not selected, the **Search Results** grid view dialog box is not displayed after the process is completed.

4. If you want to apply the new tag to the near-duplicate documents and document families, make sure the **Promote tag to parent/attachment families** check box is selected.

If you only want to apply the new tag to the near-duplicate documents, clear the **Promote tag to parent/attachment families** check box.

5. If you want to see the tagging results in the **Search Results** dialog box after the process is completed, makes sure the **View results in grid when operation is complete** check box is selected.

If you do not want to view the **Search Results** dialog box after the process is completed, clear the **View results in grid when operation is complete** check box.

6. Click OK. The Add Field dialog box opens.

Promote Tag to	Near-Dunlic	ates	
	Add Field	×	
Source Tag:	Name:	ProduceND	-
Destination	Table:	Document-Level 💌	•
	Type:	Tag (Boolean) 👻	
V Promo		Indexed Unique	
View r		Insert at top of list	
		OK Cancel	Cancel

7. Create the tag you want to apply to the near-duplicate documents, and then click **OK**.

After the process is completed, the following message is displayed:

Promote Tag Status	×
The specified tag was successfully promoted (Records affected	I = 134).
	ок

8. Click **OK** to close the message.

If the **Promote tag to parent/attachment families** check box was selected, the **Search Results** dialog box opens.

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## Viewing Email Threads

Before you can view email thread information for documents in a case, you will need to run the email thread analysis in the Near-Duplicate & Email Thread Analysis utility. Once you run the analysis, you can view a case's email thread information in the email thread fields generated by the Near-Duplicate & Email Thread Analysis utility. You can view email thread information for individual documents on the Index tab in the main LAW window, or view email thread information for multiple documents at one time using the grid view. The same can be done for the near-duplicate fields created and populated by the Near-Duplicate & Email Thread Analysis utility.

To view email thread information for individual documents

1. On the **Index** tab, click the ellipsis button, ..., next to the **Profile** list.

DocID	00001931
Custodian	
EDSession	Session 0001 on Near Duplicate & Email Thread
EDSource	C:\LAW\Enron Demo Set files\Bailey, Susan\zl_bailey-s_000.p
EDFolder	bailey-s_000\bailey-s\All documents\
ErrorMsg	\$
PrevErrMsg	\$
FileType	315
FileDescription	HyperText Markup Language
FileAccuracy	3
SuspectExt	N
DocExt	htm
OrigExt	
SourceApp	Internet Explorer 👻
Filename	SWAP Group - Sr. Specialist selection, EB38c2.htm

Clicking the ellipsis button opens the  ${\bf Modify\ Fields}$  dialog box.

2. Select the **Visible** check box next to each email thread field you want to be displayed.

骨 Add Field 💥 Delete Field 🔚 Save Changes			🔂 Apply Template 🛐 Save Template 🛛 🕅 Edit List					Field Profiles 🝷		
Name 🛆	Table	Туре	Row Span	Indexed	Locked	Unique	Visible	-	Field Order:	
ErrorMsg	Document	Memo	1				✓		LastAuthor	
ET_Conversants	Document	Memo	1		4		✓		Keywords	
ET_Indusive	Document	Text	1		<b>V</b>		✓		Comments Categories	
ET_IndusiveReason	Document	Text	1		1		✓		Organization	
ET_IsMessage	Document	Text	1		4		✓		ApplicationName	
ET_MessageId	Document	Text	1		1		✓		Template	
ET_MetaUpdate	Document	Text	1		1		✓	Ξ	Revision	
ET_ParentId	Document	Text	1		1		✓		DateLastMod	
ET_ThreadId	Document	Text	1		1		✓		TimeLastMod EMailClient	
ET_ThreadIndex	Document	Text	1		<b>V</b>		✓		EMail Subject	
ET_ThreadModified	Document	Date	1		<b>V</b>		✓		From	
ET_ThreadSize	Document	Numeric	1		<b>V</b>		✓		То	
ET_ThreadSort	Document	Numeric	1		<b>V</b>		R	1	CC	
FileAccuracy	Document	TinyInt	1		<b>V</b>		25	_	BCC Attach	
FileDescription	Document	Text	1		2		✓		DateSent	
Filename	Document	Memo	1		<b>V</b>		•		TimeSent	
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- 3. Click **Save** to save the changes to the current profile or click **Save As** to create a new grid profile.
- 4. Click the **Close** button.

Clicking the **Close** button closes the **Modify Fields** dialog box, and the email thread fields you selected the **Visible** check box for are now displayed on the **Index** tab.

For more information about showing and hiding fields, see <u>Customizing the Grid View</u>.

5. In the document list, click the document for which you want to view email thread information.

122	Index 🔯 Grid	View								
Γ	Privileged	<no></no>							•	
	ProduceND	<no></no>							•	
	FileAccuracy	3								
	ET_Conversants	Taffy Millig	jan						<u>*</u>	
	ET_Inclusive	Y								
	ET_InclusiveReason	Message								
	ET_IsMessage	Y								
	ET_MessageId	00001799								
	ET_MetaUpdate	Ν								
	ET_ParentId									
	ET_ThreadId	00007319								
	ET_ThreadIndex	7319								
	ET_ThreadModified	10/2/2013 10:33:21 AM								
	ET_ThreadSize	1								
	ET_ThreadSort	1081								
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	> Profile: <default></default>		<b>•</b>			l	Update		Clear	
⊳				*		ItemNo	ImgExt	Pages	Page F	Ra 🔺
4	bailey-s_000				3	0001		0		
	▲ ↓ bailey-s_000				3	0002		0		
	4 🍌 bailey-s			Ξ	8	0003		0		
	All documents Calendar					0004		0		
	Contacts					0005		0		
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	🚺 Inbox					0007		0		
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	📗 Sent Item	s				0010		n		+
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The email thread information for the selected document is displayed in the email thread fields.

### □ To view email thread information for multiple documents

- Search for the documents for which you want to view email thread information.
   For more information about searching, see <u>Creating Queries</u> and <u>Full Text Searching</u>.
- 2. Open the search results in the embedded or standalone grid view.
- 3. Right-click any column header.

Right-clicking a column header opens the **Field List** dialog box.

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Irag a column h	eader here to gr	oup by that colum	n.							
DocID	Custodian	EDSession	EDSource	EDEolder	ErrorMs	_	PrevErrMsg	FileType	FileDescription	FileAccuracy
00002065		Session 000	C:\LAW\E	III Field List	23			315	HyperText M	3
00002066		Session 000	C:\LAW\E	EndDoc#				315	HyperText M	3
00002067		Session 000	C:\LAW\E	EntryID				315	HyperText M	3
00002068		Session 000	C:\LAW\E	✓ ErrorMsg	_			315	HyperText M	3
00002069		Session 000	C:\LAW\E	ET_Conversa				315	HyperText M	3
00002073		Session 000	C:\LAW\E	ET_Inclusive				315	HyperText M	3
00002078		Session 000	C:\LAW\E	ET_IsMessag		10		315	HyperText M	3
00002079		Session 000	C:\LAW\E	ET_Message	Id [			315	HyperText M	3
00000350		Session 000	C:\LAW\E	ET_MetaUpd	late			315	HyperText M	3
00000351		Session 000	C:\LAW\E	ET_ThreadId				315	HyperText M	3
00000352		Session 000	C:\LAW\E			10		315	HyperText M	3
00000353		Session 000	C:\LAW\E	ET_ThreadM				315	HyperText M	3
00000354		Session 000	C:\LAW\E	ET_ThreadSi				315	HyperText M	3
00000356		Session 000	C:\LAW\E	✓ FileAccuracy				315	HyperText M	3
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00000373		Session 000	C:\LAW\E	nr bailey-s_000.				315	HyperText M	3
00000374		Session 000	C:\LAW\E	nr bailey-s_000.				315	HyperText M	3

- 4. Select the check box next to each email thread field you want to be displayed in the grid view.
- 5. Close the **Field List** dialog box.

The email thread fields are now displayed in the grid view.

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	00000047	00000100	4	2	•	N		100	10/13/2013	Alan	N
-	00000049	00001393	4	1		N		1393	10/13/2013	Angela, Davis;	
-	00000053	00002266	4	1		N		2266	10/13/2013	Alan	N
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Y	00000054	00001363	8	1		N		1363	10/13/2013	E 10	N
Y	00000121	00001727	3	2	00000817	Y	Message	1727.1	10/13/2013	Bailey Susan	N
Y	00000118	00002258	1	1		Y	Message	2258	10/13/2013	Bailey Susan	N
Y	00000131	00003838	3	5	00000806	N		3838.1	10/13/2013	Bailey Susan	N
Y	00000133	00003838	9	5	00000809	Y	Message	3838.1.3.4	10/13/2013	Bailey Susan	N
Y	00000137	00001046	1	1		Y	Message, Att	1046	10/13/2013	Adams	N
Y	00000138	00000152	1	1		Y	Message, Att	152	10/13/2013	Adams	N
Y	00000139	00002385	1	3		Y	Attachment	2385	10/13/2013	Bailey Susan	N
Y	00000140	00002385	9	3	00000360	N		2385.1	10/13/2013	Bailey Susan	N
Y	00000142	00002200	10	3	00000471	Y	Message	2200.1.2	10/13/2013	Bailey Susan	N
Y	00000147	00000108	3		00000759	N	-	108.1	10/13/2013	JDV; Judy	N
-	00000145	00003789	1	1		Y	Message, Att	3789	10/13/2013	David McLeroy	N
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For more information about showing and hiding fields and sorting records in the grid view, see <u>Customizing the Grid View</u>.

# Exporting

The Export Utility allows you to export data for use by CloudNine Concordance and other litigation support applications.

# **Export Utility Overview**

The first step in using the Export Utility is to start it. Next comes deciding upon the data type or format you need to export. You can export to multiple formats in a single export session. To this end, LAW allows you to export critical data used by litigation support applications and provides a wide ranging list of possible export formats. Some of the export formats allow for advanced configuration, which are covered in the Format-Specific Settings section.

Considerations when planning an export session include: deciding how to handle native applications, selecting image file formats, and configuring formats and fields for load files.

For a complete list of export formats, including details regarding file extensions assigned to exported items and many other details, see the quick reference in this topic.

#### To start the Export Utility

• From the main form or a standalone grid, on the **Tools** menu click **Export Utility**.

Or

Click the Export Utility button (<sup>13</sup>) located both on the main form, and in the toolbars of standalone and embedded grids.

#### Export data types and formats

The following kinds of data may be exported:

- Scanned data
- Electronic discovery
- Image files
- Full text
- Native files
- Field data, for example, DocID and file metadata
- Extended property metadata for certain types of files, including PDF, Office documents, and EXIF (TIFF and JPEG) files. Extended properties can be recognized by their "EP" prefix, for example, "EPTypist."

The following kinds of items can be exported:

- Native files
- Load files formatted for compatibility with litigation support programs
- Image files of various formats
- XML

The types of load files that are supported are listed as follows. Links in the following list provide additional information and additional configuration options where available:

- <u>BlueTrace</u>
- <u>CaseLogistix</u>
- <u>CaseMap</u>
- <u>Concordance</u>
- <u>Concordance Desktop</u>
- <u>Concordance Direct (DCB)</u>
- Delimited Text
- Doculex Viewer 4.x
- Doculex Viewer 5/6

- DocuMatrix 1.5
- EDRM XML 1.0
- EDRM XML 2.0
- <u>iCONECT</u>
- inData's TrialDirector
- Inmagic's DB/TextWorks
- Introspect eCM
- IPRO IntelliVIEW
- JFS Litigator's Notebook
- LaserFiche
- OmniDox (Custom)
- PDF Conversion
- <u>Ringtail CaseBook</u>
- <u>Sanction</u>
- <u>Storm Viewer</u>
- Summation Blaze
- TotalVzn

### Selecting external applications

Note the following considerations about external applications when using the Export Utility:

- Because the requirements for working with each export format are unique, LAW provides application-specific settings to better handle each format.
- Many of the applications for working with supported formats are only viewers and do not support index or OCR information. Consult the documentation for the intended target applications before doing any coding or OCR to avoid wasting time performing unnecessary steps in CloudNine<sup>™</sup> LAW. LAW supports many litigation support packages.

### Image format considerations

The image format required is a result of the target application and its image viewer.

Some applications use one multi-page image file to represent a multi-page document. Other applications use a series of single-page image files (logically grouped) to represent a multi-page document.

If images created via TIFF Conversion in LAW were stored in multi-page format and a single-page export format was chosen, the images would need to be split upon exporting, which can significantly slow the process. Therefore, converting to single-page TIFF files is recommended whenever possible.

#### Load file extensions

Note the following facts about load file extensions:

- The load file extensions indicate the extensions of the load files that are created for each of the supported formats.
- With the exception of Doculex (which uses a FoxPro database) and the Concordance DCB export, all of the load files created are text files that conform to the specifications defined by the target application.
- In the case of Concordance and JFS, the export produces two export files, one with index data and one with image information.
- The load files can be found in the export path after the export is complete.
- The load files are named (with the appropriate extensions) according to the last folder in the export path (e.g., "Vol001.dat", "Vol001.dii", etc., for an export path of "D:\Exports\Case1\Vol001"), because LAW assumes this is the volume label for the export.

#### Supported Formats Quick Reference

The following table lists supported export formats, image file formats (single or multipage images), load file extensions, formats that support importing of index information, native file support, and support for (single- or multi-page) OCR.

Format	Output Files	Single / Multi Page	Meta Data Support	16-Bit Naming Required (8.3 chars)	Full Text Support	Single Pg Text Support	Native File Suppo rt
BlueTrace	[VolName ].dat [VolName ].opt ImportTe xt.cpt	Single / Multi Page	Predefin ed	No	Yes	No	Yes
CaseLogistix	[VolName ].xml	Single / Multi Page	Yes	No	Yes	No	Yes
CaseMap	[VolName ].csv	Single / Multi Page	Yes	Yes	Yes	Yes	No
Concordance	[VolName ].dat [VolName ].opt	Single / Multi Page	Yes	No unless using Opticon versions	Yes	No	Yes

Format	Output Files	Single / Multi Page	Meta Data Support	16-Bit Naming Required (8.3 chars)	Full Text Support	Single Pg Text Support	Native File Suppo rt
	ImportTe xt.cpt			earlier than 2.0			
Concordance Desktop	[VolName ].CIB	Single / Multi Page	Yes	No	Yes	No	Yes
	[VolName ].CNSDB	-					
	[VolName ].DCB						
	[VolName ].Editlayo ut						
	[VolName ].Ini						
	[VolName ].Key						
	[VolName ].Layout						
	[VolName ].Ndx						
	[VolName ].Sec						
	[VolName ].SortLay out						
	[VolName ].Tex						
	[VolName ].TRK						
	[VolName ].txt						
	[VolName ] _Persiste nt.txt						
	[VolName ]-						

Format	Output Files	Single / Multi Page	Meta Data Support	16-Bit Naming Required (8.3 chars)	Full Text Support	Single Pg Text Support	Native File Suppo rt
	Notes.Dc b [VolName ]- NOTES.IN I [VolName ]- Notes.Ke y [VolName ]- Notes.Nd x [VolName ]- Notes.Te x [VolName ]- NOTES.T RK [VolName ]- NOTES.T RK						
Concordance Direct (DCB)	[VolName ].dcb [VolName ].ini [VolName ].key [VolName ].ndx [VolName ].opt [VolName ].tex	Single / Multi Page	Yes	No	Yes	No	Yes

Format	Output Files	Single / Multi Page	Meta Data Support	16-Bit Naming Required (8.3 chars)	Full Text Support	Single Pg Text Support	Native File Suppo rt
	ImportTe xt.cpt						
Delimited Text	[VolName ].csv	Single / Multi Page	Yes	No	Yes	No	Yes
Doculex Viewer 4.x	Doculex3. dbf	Single	No	Yes	No	No	No
Doculex Viewer 5/6	Doculex5. dbf	Single	No	No	No	No	No
DocuMatrix 1.5	[VolName ].xml	Single / Multi Page	Yes	No	Yes	No	No
dtSearch	N/A	Multi	Yes	No	Yes	No	No
EDRM XML 1.0	[VolName ]_v1.xml	Single / Multi Page	Yes	No	Yes	No	Yes
EDRM XML 2.0	[VolName ]_v2.xml	Single / Multi Page	Yes	No	Yes	No	Yes
ICONECT	[VolName ].xml	Single / Multi Page	Yes	No	Yes	No	Yes
inData's TrialDirector	[VolName ].oll	Single / Multi Page	Yes	No	No	No	No
Inmagic's DB/TextWorks	[VolName ].add	Single / Multi Page	Yes	No	Yes (embedd ed)	No	No
Introspect eCM	[VolName ].idx	Multi	Yes	No	Yes	No	No
IPRO IntelliVIEW	[VolName ].lfp	Single / Multi Page	Yes	No	Yes (embedd ed)	No	No
JFS Litigator's Notebook	[VolName ].jfs [VolName ].log	Single	Yes	Yes	No	No	No

Format	Output Files	Single / Multi Page	Meta Data Support	16-Bit Naming Required (8.3 chars)	Full Text Support	Single Pg Text Support	Native File Suppo rt
	jfs.col						
LaserFiche	[VolName ].lst	Single	Yes	No	No	No	No
OmniDox (Custom)	[VolName ].ID	Single	Yes	No	Yes	No	No
PDF Conversion	Straight PDFs	Single / Multi Page	No	No	No	No	
PDF Hidden Text	Searchabl e PDFs	Multi	Yes (embed ded)	No	Yes (embedd ed)	No	No
Ringtail CaseBook	Ringtail.m db (Access DB)	Single / Multi Page	Yes	No	Yes (embedd ed)	No	Yes
Sanction	[VolName ].oll	Single	Yes	No	Yes \ No (external )	Yes	No
Storm Viewer	ImageBas e.add + Supporter Tables	Single / Multi Page	Yes	No	Yes (external ) + Indexing	No	No
Summation Blaze	[VolName ].dii [VolName ].txt (Metadat a if exported field count is 6 or more)	Single / Multi Page	Yes	No	Yes (external )	Yes	Yes
TotalVzn	[VolName ].opt	Single / Multi Page	No	No	No	No	No

# Formats/Documents Tab

You use the Formats/Documents tab to specify the following:

- Export type
- Files to be included for exporting
- Type of files (e.g., native files)
- Target application name
- Target application configuration settings
- Image format

#### To start the Export Utility

- 1. From the main window, on the **Tools** menu click **Export Utility**.
  - Or click the 🖻 button from the main or from the embedded grid toolbar.

The **Export Utility** dialog appears.

Export Utility		×
<u>F</u> ile <u>H</u> elp		
Formats / Documents   Fields   Options   Advanced		
File Types	Documents	51
Selected Types: All Records	All Documents	
✓ Include Images	O Search Results	
✓ Indude Full Text Options	O Select Documents	
Include Native Files	O Regenerate Load File(s) Select	
Include records without files	Total: 19,753 docs	
Formats		51
Available Formats	Selected Formats	
Concordance Desktop Concordance Direct (DCB) Delimited Text Doculex Viewer 4.x Doculex Viewer 5/6 Doculvativa 1.5 EDRM XML 1.0 EDRM XML 2.0	elect > Remove Remove All	
Single-Page OMulti-Page	O Single-Page O Multi-Page	
Cancel	< <u>B</u> ack <u>Next &gt;</u> Einish	

### To configure file and text export options

Because LAW is both a scanning and an electronic discovery application, the Export Utility allows users to choose which type of data should be included in the export.

The options available in the File Types area of the Export Utility are described in the following table:

Option	Description
Selected Types	<ul> <li>The Selected Types drop-down contains three options:</li> <li>All Records — This option may be used when a LAW case contains both scanned (or imported) images and native files, and the user wishes to include both types in the export. This option may also be used if the case is all e-discovery or all scanned data.</li> <li>Scanned Data — Use this option when exporting only scanned images or images imported using a feature other than the ED Loader (such as Import Raw Images).</li> <li>Electronic Discovery — This option will be used to export files that were imported as e-discovery only. This may include native files and/or the TIFF images or PDF files for each ED record (if files were converted to TIFF or PDF).</li> <li>Note: Keep in mind, not all target applications support native file</li> </ul>
	review. Currently, native file exports apply only to Blue Trace, CaseLogistix, Concordance, Concordance Desktop, Concordance Direct (DCB), Delimited Text, EDRM XML 1.0, EDRM XML 2.0, iCONECT, Introspect eCM, Ringtail, and Summation.
Include Images	Includes scanned images, images imported via Import Raw Images or Import Load File, and images created during the TIFF Conversion batch process or single document tiffing.
Include Full Text	Includes text files for any documents that contain text. This text may have been extracted during the pre-save or created during the OCR process. The type of text included in the export will depend on the option selected in the Text Options dialog (see below).
Include Native Files	Includes the native files imported during the e-discovery import process. Again, not all export formats support native file review. If Include Native is the only option selected, only Blue Trace, CaseLogistix, iCONECT, Concordance, Concordance Desktop, Concordance Direct (DCB), Ringtail, and Summation will be displayed in the Formats section.
	This option is disabled if the Scanned Data export type is selected.
Include records without files	When enabled, includes a record in the export load file or database for all LAW records that do not have a native file associated with them.

Option	Description
	For example, if a duplicate file was detected during an inport from ED Loader or Turbo Import, and the action was set to log a record but exclude the native file, then the record in LAW would not have a native file. If this export setting is disabled, this record would not be included in the export output and a warning would be logged.
Options button	
Opens the <b>Text</b> <b>Options</b> dialog box.	Set four conditions to determine precedence of text types for export: • Option 1: Extracted Text, Linked Text, OCR Text (default), or
Test District           Optim 1           Optim 2           Optim 2           Executed fast           Optim 3           Instant fast	<ul> <li>Option 1: Extracted Text, Enked Text, Ock Text (default), of Printed Text</li> <li>Option 2: <none>, Extracted Text (default), Linked Text, OCR Text, or Printed Text</none></li> </ul>
Option 4 Teleform Control Section Control Annual A	<ul> <li>Option 3: <none>, Extracted Text, Linked Text, OCR Text, or Printed Text (default)</none></li> </ul>
Classific Structures Teams (Classification Construction Construction Construction Construction Construction Construction Construction)     Classification Construction Construction     Construction     Construction     Construction     Construction	<ul> <li>Option 4: <none>, Extracted Text, Linked Text (default), OCR Text, or Printed Text</none></li> </ul>
	Text priority example configuration:
	If the following text priorities are selected:
	Option 1: OCR Text
	Option 2: Extracted Text
	Option 3: Printed Text
	Option 4: Linked Text
	<ul> <li>When the export runs, LAW will export the OCR text for any documents that have associated OCR.</li> </ul>
	• If no OCR text is found, LAW will export the extracted text for any documents that have extracted text.
	• If no extracted text is found, LAW will export printed text if it has been created from the native documents during the TIFF conversion process.
	• If no printed text is found, LAW will export the text from linked text files for any documents that are linked to a text file.
	Documents are linked to a text file if the "Link to source files in place when importing load files" check box was selected on the Preferences tab in the Options dialog box (Tools menu >

Option	Description
	Options), and the document was imported into LAW using a load file.
	• <b>Text Encoding</b> — Determines what type of text encoding is used for extracted text files during the export.
	<ul> <li>Use existing encoding — LAW exports the extracted text files in their current format without modifying their text encoding during the export.</li> </ul>
	• Add BOM to Unicode only — LAW includes any Unicode <sup>®</sup> characters in the exported text if present. If a text file contains Unicode characters, the file is encoded as UTF-8 and a byte order mark (BOM) is added at the beginning of the text file. If the text file already contains a BOM and Unicode, both are retained. If the file does not contain Unicode, it is exported without a BOM. This feature should be used with caution as many export formats do not support Unicode characters.
	• <b>ANSI</b> — LAW converts the default UTF-8 extracted text files to ANSI during the export. Any Unicode content is lost.
	<ul> <li>UTF-8 with BOM — LAW converts all files to UTF-8 encoding and adds a UTF-8 byte order mark (BOM) at the beginning of all files.</li> </ul>
	The Allow Unicode data in Concordance load file setting does not have any impact on exported text files. Note that this setting only affects the *.dat load file.
	• Export as single page text — Single-page text files for each document will be exported if this option is enabled. Only two formats, Summation and Sanction, support single-page text.
	• Include placeholder file when text is missing — Export includes the placeholder text .txt file for documents without text content during the export. If the Include Full Text check box is selected on the Formats/Documents tab in the Export Utility dialog box, when the text files are being copied during the export, the placeholder .txt file will be copied for each document without text content.
	When this option is selected, click Browse to add the placeholder .txt file you want to use. The placeholder .txt file can be any .txt file containing the text you want to include in the placeholder file.

Option	Description
	• <b>Insert page markers in text (OCR / Printed text only)</b> — Exports specified field replacements and stamps the page markers on the exported text. By default this option is disabled, which means no page markers would be added to the exported text. When enabled, you can type your own page marker or use the following default page marker:
	<<< &[PageID] / &[Pages] >>>
	• Omit text for tagged documents — Removes OCR, printed, or extracted text from the export for certain records. Use this option to help avoid creating overly large text files. A tag field must be created and records tagged prior to launching the Export Utility. The tag field will appear in the drop-down list below this option.
	To help filter large text files from export, you can use the <b>Capture Text File Sizes</b> run command along with the <b>Omit text for tagged documents</b> option. The command stores the file size of the extracted text associated with a document in an index field. The option prevents text of tagged files from being exported. Note that the <b>Capture Text File Sizes</b> command has not been fully tested and cannot be supported in the event of a problem.

### To configure document export options

Use the **Documents** section to specify the documents to include in the export.

Documents			
All Documents			
🔘 Search Results			
Select Documents	Select		
Regenerate Load File(s)	Select		
Total: 11,226 docs			

• All Documents — Includes all documents in the case, depending on the selected Export Type. For example, if this option is selected, and Electronic Discovery is chosen in the File Types section, LAW will only export records imported as e-discovery. Non-electronic discovery data will not be included in the export.

- Search Results Includes all records currently displayed in the grid. This option will only be enabled if the Export Utility is launched while a grid display is active or if it is launched directly from a grid.
- Select Documents Use this option to specify the folders and/or ranges of documents within folders to include in the export.
  - □ To specify folders and/or document ranges in folders
    - 1. Click the **Select** button next to the **Select Documents** option.

Clicking the Select button opens the Select Folders dialog box.

Select Folders	
SQL Exp 2012         Bailey, Susan         Dickson, Stacy         Dickson, Stacy         dickson-s_000         Hendrickson, Scott         Hendrickson, Scott         Hendrickson, Scott         King, Jeff         King-j_000         Hendrickson, Scott         Hendrickson-s_000         Hendrickson-s_000         Hendrickson-s_000         Hendrickson         Hendrickson-s_000         Hendrickson         Hendrickson         Hendrickson-s_000         Hendrickson         Hendrickson         Hendrickson         Hendrickson-s_000         Hendrickson         Hendrickson         Hendrickson-s_000         Hendrickson         Hendrickson         Hendrickson-s_000         Hendrickson         Hendrickson <t< th=""><th>Clear All Select All Set Range</th></t<>	Clear All Select All Set Range
Calculate total documents (required to preview total pages)	OK Cancel

- 2. Select the check box next to the folders you want to to export.
- To select a range of documents, click the check box for folder containing the desired records, then click Set Range.

Clicking the **Set Range** button opens the **Select Document Range** dialog box.

Sele	Select Document Range								
Se	Select the desired starting and ending documents.								
Co	onte	nts of 'ba	iley-s_00	00\bailey	/-s_000\bailey	-s\All docum	ients'		
		ltemNo	ImgExt	Pages	Page Range	DocID	DocExt		-
	7	0356		0		00002064	нтм		
	3	0357		0		00002065	нтм		
	3	0358		0		00002066	нтм		
	7	0359		0		00002067	нтм		
	7	0360		0		00002068	нтм		
	-	0361		0		00002069	нтм		
	7	0362		0		00002070	нтм		
	-	0363		0		00002071	нтм		
	7	0364		0		00002072	нтм		
		0365		0		00002073	нтм		
	5	0366		0		00002074	нтм		
	7	0367		0		00002075	нтм		
	5	0368		0		00002076	нтм		
	1	0369		0		00002077	нтм		
	-	0370		0		00002078			
☑	3	0371		0		00002079	НТМ		
	•	0372		0		00002080	нтм		Ŧ
	(	Clear	Se	elect All			ОК	Cancel	

4. Select the check box next to the starting and ending documents, and then click **OK**.

Clicking **OK** saves the document ranges and closes the **Select Folders** dialog box.

By default, the **Calculate total documents** check box is selected. When the check box is selected, the export includes document counts in addition to the total number of folders selected. For large cases, selecting the **Calculate total documents** check box can cause a delay when returning to the **Formats / Documents** tab.

In cases with a large number of documents and/or pages, a delay may be experienced when launching the Batch Process or Export Utility dialog boxes while LAW calculates the total number of pages to display.

### To avoid the potential delay, disable page counting.

1. On the **Tools** menu, click **Options**, and then click the **Preferences** tab.

2. Clear the **Calculate total pages in batch/export dialogs** setting before you launching the Export Utility.

The number of pages will no longer appear beside the number of documents.

5. Click **OK**.

Clicking **OK** saves your folder and document selections and closes the **Select Folders** dialog box. The **Select Documents** option on the **Formats / Documents** tab is now selected.

Regenerate Load File(s) — Use this option to regenerate a load file for one of the case's existing exports. The Regenerate Load File(s) option is only available for SQL cases.

#### To select an existing export

1. Click the **Select** button next to the **Regenerate Load File(s)** option.

Clicking the **Select** button opens the **Select Existing Export** dialog box.

Name	Status	Count	Created
Export_20140313_151626	Complete	326	3/13/2014 3:16:27 PM
Export_20140313_151509	Complete	10	3/13/2014 3:15:09 PM
Export_20140313_151103	Complete	39	3/13/2014 3:11:04 PM
Export_20140311_153442	Complete	375	3/11/2014 3:34:42 PM

LAW generates an export session for each SQL case export. The **Select Existing Export** dialog box contains the list of exports already run for the case. For each export, the export session name, export status, total number of documents exported, and the export creation date and time are displayed.

- 2. Select the row for the export for which you want to regenerate the load file.
- 3. Click **OK**.

Clicking **OK** closes the **Select Existing Export** dialog box and populates the **Export Utility** tabs with the export settings from the export you selected. Also, the **Regenerate Load File(s)** option on the **Formats / Documents** tab is now selected. Some of the export settings for the selected export cannot be edited.

#### To select export formats

Use the **Formats** section to specify the target application(s) as well as the load file/image format. Although you may select multiple applications, not all export formats support the same options. Also, certain applications will have special configuration settings available in the Export Utility.

#### To select a format

- 1. Select an application title from the **Available Formats** list.
- 2. Select either Single-Page or Multi-Page.

Note: The image format must be selected before moving the application format to the **Selected Formats** list.

- 3. Click Select.
- 4. To determine if a format has additional configuration options, select the application title in the **Selected Formats** list. If the **Configure** button becomes enabled, this indicates additional settings exist and can be viewed by clicking **Configure**.
- ☑ Note the following when configuring output formats:
  - When exporting PDFs to any single-page format other than PDF Conversion, if <Default> is selected as the output format, the PDFs will be converted to image-only. If PDF is the output format, the PDFs will be searchable.
  - If exporting multi-page color or grayscale TIFF images to a single page format with the Output Format set to Default, LAW will automatically export these files as JPEG images. This is done for better compatibility with older image viewers that may not support TIFF w/JPEG compression and to minimize the file sizes of the color images. B&W TIFF images will not be affected by this process.

# **Format-Specific Settings**

For some of the supported export formats, LAW provides advanced configuration options.

#### BlueTrace

BlueTrace uses GMT time and has the following predefined fields:

- ControlNumberBegin
- ControlNumberEnd
- Custodian
- RecordType
- FileType
- Filename
- NativeFilePath
- AttachmentRangeBegin
- AttachmentRangeEnd
- AttachmentCount
- InternetMessageID
- InReplyToID
- ConversationTopic
- ConversationIndex
- EMailClient
- EMailFolder
- EMailSubject
- EMailFromAddress
- EMailFromName
- EMailTo
- EMailCc
- EMailBcc
- EMailDate
- EMailTime
- EMailHeader
- EMailMessageSize
- EFileFolder
- EFileLastModDate
- EFileLastModTime

- EFileSubject
- EFileAuthor
- EFileHashValue
- EMailEntryID
- ExtractedTextFile

#### CaseLogistix

#### To configure export to CaseLogistix

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- In the Available Formats list, click CaseLogistix and then click the Select > button.
- 4. In the **Selected Formats** list, click **CaseLogistix** and then click **Configure**.

The	CaseLogistix	Settings	dialog	box appears.
-----	--------------	----------	--------	--------------

CaseLogistix Settings	
Path Notation O Hard Path O Relative Path O UNC Path	
Include document/OCR text	as a field in load file
Field name: Text	
	OK Cancel

5. Specify the options that control how image paths are written to the load files during the export process:

Use this option	When you want to
Hard Path	Display in the load file a full path to each output file. For example, C:\Exports\TestCase\Vol001\image.tif.

Use this option	When you want to
Relative Path	Use a relative path to the images from the export path instead of the entire path (minus the drive letter).
UNC Path	Indicate that export path is a mapped network drive; the image paths are written using an UNC notation, for example, \\MyServerName\MyFolder\.
Include document/OCR text as a field in load file	Include the text for each document (if available) as a field in the CaseLogistix XML file.
Field Name	Specify the name of the field to which the text will be exported.

In CloudNine<sup>™</sup> LAW 5.2 and higher, any Unicode data included in exported fields is automatically included in CaseLogistix load files.

#### CaseMap

#### To configure export to CaseMap

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **CaseMap** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **CaseMap** and then click **Configure**.

The **CaseMap Settings** dialog box appears.

🖬 CaseMap Settings 🛛 🛛 🔀
Data Delimiters
Field , 💌 Other
Text " 💌
Path Notation
<ul> <li>Hard Path</li> </ul>
O Relative Path
O UNC Path
✓ Include field names as first record OK Cancel

- 5. Select options according to the following guidelines:
  - Choose the desired delimiters to surround each field and/or field value in the load file.
  - To specify a delimiter not in the **Field** drop-down list, choose **<other>** and type the delimiter into the **Other** text box.
  - To specify how image paths are written to the load files during the export process, edit the path notation.
    - With **Hard Path** selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif.
    - The **Relative Path** setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter).
    - If the **UNC Path** option is selected, and the export path is a mapped network drive, the image paths are written using an UNC notation for example, \\my-server-name\my-folder-name.
  - To force CloudNine<sup>™</sup> LAW to place the names of any included index fields in the first row of the load file, enable **Include field names as first record** setting.

### Concordance

#### To configure export to Concordance

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- In the Available Formats list, click Concordance and then click the Select > button.

4. In the **Selected Formats** list, click **Concordance** and then click **Configure**.

The **Concordance Settings** dialog box appears.

Concorda	nce Settings		$\times$
- Data Delimit Comma Quote Newline Restor	ters ¶ (020) ▼ þ (254) ▼ © (174) ▼ re Defaults	Path Notation O Hard Path O Relative Path O UNC Path	
<ul> <li>Allow Unicode data in load file</li> <li>Create Opticon load file only</li> <li>Enable support for Concordance Native Viewer</li> <li>Include field names as first record</li> <li>Include document/OCR text as a field in load file Field name: OCR_Text</li> <li>Link to images and native files in their current location</li> </ul>			
		<u>O</u> K <u>C</u> an	cel

5. Configure options according to the information in the following table:

Option	Description
Data Delimiters	These options allow users to specify which data delimiters to use in the Concordance .dat file. The data delimiters used when exporting will also need to be used when importing the .dat file into Concordance. The default values Concordance uses by default can be applied by clicking the Restore Defaults button.
Path Notation	The path notation allows users to specify how image paths are written to the load files during the export process. With Hard Path selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif. The Relative Path setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter). If the UNC Path option is selected and the export path is a mapped network drive, the image paths are written using an UNC notation (\\computername\sharename\).
Allow Unicode data (UCS-2	Allows Unicode field data to be included in the load file if any exists in the records selected for export. Prior to exporting, please ensure the

Option	Description
format)	version of Concordance being used will support the Unicode data.
Create Opticon load file only	With this option selected, LAW will only create an Opticon load file (.OPT) and not the .DAT file.
Enable support for Concordance	When enabled, configures the load file created during export to be opened with Concordance Native Viewer 1.0.
Native Viewer	Sets the default priority to export: image files, if they exist; and then native files. This priority is only needed if exporting a combination of image files and native files. This setting is enabled by default.
	<ul> <li>If both native and image files exist for a record the image file should take precedence in the Opticon file.</li> </ul>
	<ul> <li>If both native and image files exist for a record and if include tagged documents is also selected then the native file takes precedence in the Opticon file.</li> </ul>
Include field names as first record	Inserts the field names for each field as the first record in the .dat file. This is useful when viewing the data manually or importing into other applications.
Include document/OCR text as a field in	The text for the selected documents will be included in the .dat file if this option is enabled. This setting also overwrites the Include Full Text setting on the Formats/Documents tab of the Export Utility.
load file	The Field Name is the name of the field in the .dat file which will contain the text. If the selected field contains more than ~8MB of text, LAW will automatically create sequential fields to adhere to Concordance's field size limitations.
	Do not use special characters in the Field Name box. Special characters are not compatible with the Concordance field naming conventions.
Link to images and native files in their current location	Leaves any images and native files included in the export in their location (LAW case directory). This feature greatly improves the speed of the export because no files are being copied and LAW must only generate the load files. Paths in the load file will reflect the current location of the files.

The "Allow Unicode data" setting only applies to Concordance database versions 10 and above.

## Concordance Desktop

# Important notes on exporting to Concordance Desktop

- ▲ Concordance Desktop can not append text at a later time, so Text will need to be enabled during the export if desired.
- ▲ If you are exporting the database to a different computer/server than where LAW is located then the Concordance services need to be enabled as a network account instead of a local account.
- Exporting from LAW to Concordance Desktop version 1.07 or earlier will not function properly if you are running on Windows Server 2019.
- If both images and native files are selected for export, images have priority over native files in the Concordance Desktop native viewer.
- Fields exported from LAW are created in Concordance Desktop if they do not already exist. Unicode field values are accepted, but field names with special characters are not permitted.
- When the exported text exceeds the Concordance Desktop allowable limit of 12 MB for a field, the excess text will be entered into the next incremental field up to a maximum of six fields. For example, if the first text field is LAW\_OCR\_01, the first 12 MB of text goes into that field. The next 12 MB of text goes into LAW\_OCR\_02 and so forth until LAW\_OCR\_06. If there is still text to be stored, an error message is logged indicating that the text size exceeded maximum space available and data was truncated.
- ✓ If LAW 7.2+ and Concordance Desktop 1.7+ are installed in the processing environment then configuring the <u>export to Concordance Desktop with a remote</u> <u>server</u> provides more flexibility and options. This option allows for various LAW processing stations to directly export to Concordance Desktop instead of only using the Concordance Desktop database server as the only workstation to directly export to Concordance Desktop.

If the processing environment is using legacy versions of either LAW or Concordance Desktop then the only options are to make a <u>Concordance</u> export and manually build your database into Concordance Desktop or <u>to configure export to</u> <u>Concordance Desktop</u>.

## To Configure export to Concordance Desktop with a remote server

This feature enables exports from a LAW workstation to build a Concordance Desktop database by entering the Concordance Desktop server's connection information. It does not require LAW to be installed or run the export from the Concordance Desktop Server. This export should only be started from a LAW machine that has LAW version 7.2+ and Concordance Desktop 1.07+ installed. If you are exporting the database to a different computer/server than where LAW is located then the Concordance services on the Concordance Desktop server need to be enabled as a network account instead of a local account.

Checklist for remote server export		
LAW Workstation	Concordance Desktop Server	
Installation	Installation	
Concordance Desktop 1.07+	Concordance Desktop 1.07+	
LAW 7.2+		
Concordance Desktop is closed when exporting from LAW.	Concordance Desktop is closed when exporting from LAW. *This is not required if multiple Administrator licenses are available; however the same user name can't be logged into both the workstation and the server.	
Read write & modify access to shared folder of Concordance Desktop export	Read write & modify access to shared folder of Concordance Desktop export	
	In Services for the Concordance Desktop database server, both <b>Concordance Admin Server</b> and <b>Concordance Server</b> need to configured with a Network Login.	
Test connection in Concordance Desktop from LAW workstation to Admin Server		
The Export Path in LAW's Export Utility must be a UNC path.		

How to Configure LAW exports for remote server exports to Concordance Desktop version 7.2+.

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **Concordance Desktop**, and then click **Select >**.
- 4. In the **Selected Formats** list, click **Concordance Desktop**, and then click **Configure**.
- 5. The **Concordance Desktop Settings** dialog box appears.

Concordance Des	ktop Settings			×
Use specific data	abase <mark>(*.dcb)</mark> over	ride p	bath	
Database path				_
				Browse
Security	Field Settings			
Path Notation		If	Record Match is F	ound:
O Hard Path		0	Skip Record	
Relative Path		0	Update Existing	
O UNC Path		0	) Append All Reco	ords
Automatically lo	ad Opticon/Native	base	files	
Concatenate D	CB's across separa	te pa	rtitions	
Create Concord	lance 10.0 databas	se (su	ipports Unicode)	
Enable support	for Concordance N	lative	Viewer	
Include docume	nt/OCR text as a f	field ir	n database file	
Field name:	Text			
Link to images a	and native files in t	heir a	urrent location	
Truncate text v	alues that exceed	their	field size	
			OK	Created
			OK	Cancel

- 6. Click the **Security** button.
- 7. A new window opens for the Concordance Desktop Login.

Concordance Desktop Login		
User:	Administrator Login	
Password:	*******	
Server:	Concordance Desktop Server	
Admin port:	10001	
Server port:	443	
	OK Cancel	

8. Enter the Concordance Desktop database server's login information based on the following:

LAW's Concordance Desktop Login fields	Concordan ce Desktop fields	Value Description	Value Example
User	Logon	Administrative user name	Administrator Login
Password	Password	Password used for the Logon used	*****
Server	Host Name	Computer name of the Concordance Desktop database server	Concordance Desktop Server
Admin port	Port	Port listed when connecting to the Admin Console in Concordance Desktop	10001
Server port	Port	Port listed in Concordance Desktop when going to File>Connect	443

Option	Description
Use specific database	Allows users to append to the desired database.

Option	Description
(*.dcb) override path	
Database path	This option is used in conjunction with the "Use specific database (*.dcb) override path" option. Click Browse to locate a Concordance Desktop database. Exported records will be appended to the selected *.dcb file. If you are exporting the database to a different computer/server than where LAW is located then the Concordance services (Concordance Admin Server and Concordance Server services in services.msc) need to be enabled as a network account instead of local account.
Path Notation	The path notation is used to specify how image paths are written to the Opticon load file during the export process.
	With Hard Path selected, the load file will display a full path to each output file, such as C: \Exports\TestCase\Vol001\image.tif.
	The Relative Path setting uses a relative path to the images from the export path, instead of the entire path (minus the drive letter).
	If the UNC Path option is selected, and the export path is a mapped network drive, the image paths are written using an UNC notation, for example:
	\\comput er name\ shar ename\
If Record Match is Found	The selected option will determine the action LAW will take if a matching record is found in the Concordance database when utilizing the append feature. The three options are:
• Skip Record	Record will be omitted if it already exists.
• Update Existing Record	Any new information will be applied to the existing record, if one is located.
<ul> <li>Append All Records</li> </ul>	All records will be appended to existing database.
Field Settings	Click this button to open the <b>Concordance Field Settings</b> dialog box, which lists the fields in the current LAW case. The fields can be selected as "Keyed" or "Indexed" fields before exporting the database to Concordance. When the Concordance database is opened, the selected key and indexed fields are listed in File > Modify.

Option	Description
Concordance Field Setting:           NST: The field induced body inservice the Concordance Field Setting inservice induced body ind	Note: These field settings only apply to Concordance 8 databases (or higher). To modify fields for earlier database versions, edit the <b>E-Discovery.dcb</b> database template located in the Template folder in the LAW installation directory.
Security	Click <u>Security</u> to configure settings for the Concordance Desktop database server.
Concatenate DCB's across separate partitions	Select this option to concatenate the databases into one database and then export it into partitions. For example, a partition size of 650 MB creates partitions of the concatenated database that can be copied to CDs. All of the database partitions are treated as one database. The partition size is set in the Options tab of the Export Utility.
Include document/OCR	When enabled, this feature includes exported text to a field in the database.
text as a field in database file	Type the field name in the text box provided.
	Note: When the exported text exceeds the Concordance Desktop allowable limit of 12 MB for a field, the excess text will be entered into the next incremental field up to a maximum of six fields. For example, if the first text field is LAW_OCR_01, the first 12 MB of text goes into that field. The next 12 MB of text goes into LAW_OCR_02 and so forth until LAW_OCR_06. If there is still text to be stored, an error message is logged indicating that the text size exceeded maximum space available and data was truncated.
Link to images and native files in their current location	Leaves any images and/or native files included in the export in their current location (LAW case directory). This feature greatly improves the speed of the export because no files are being copied and LAW must only generate the load files. Paths in the load file will reflect the current location of the files.
Truncate text values that exceed their field size	If this setting is enabled, records with text values that exceed their field size in the target DCB will still be added to the database. The offending text values will be truncated and a warning will be logged. When disabled, these records will not be added to the DCB and errors will be logged. The warning and error messages will include the field name, field size, and the offending data size.

## To configure export to Concordance Desktop

- ▲ This export should only be started from a LAW machine that is also the Concordance Desktop License server or has a Mobile license of Concordance Desktop installed. If this Concordance Desktop installation has reviewer licenses only, it is recommended to do a standard Concordance export. See <u>Configure</u> <u>Security</u> for exceptions to this in version 7.2+.
- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the Available Formats list, click Concordance Desktop, and then click Select >.
- 4. In the **Selected Formats** list, click **Concordance Desktop**, and then click **Configure**.

The **Concordance Desktop Settings** dialog box appears.

Concordance Desktop Settings		X
Use specific database (*.dcb) ove Database path Field Settings	erride path	e
Path Notation	If Record Match is Found:	
Hard Path	Skip Record	
<ul> <li>Relative Path</li> <li>UNC Path</li> </ul>	Opdate Existing Record	
O UNC Path	Append All Records	
Automatically load Opticon/Nativ		
Concatenate DCB's across separ		
Enable support for Concordance		
Include document/OCR text as a		
	the in a second base from	
Link to images and native files in		
Truncate text values that excee	d their field size	
	OK Cance	

Concordance Desktop Settings	×
Use specific database (*.dcb) over Database path	ride path Browse
Security Field Settings	
Path Notation O Hard Path Relative Path O UNC Path	If Record Match is Found: Skip Record Update Existing Record Append All Records
Automatically load Opticon/Native	base files
Concatenate DCB's across separat	te partitions
Create Concordance 10.0 databas	e (supports Unicode)
Enable support for Concordance N	ative Viewer
✓ Include document/OCR text as a final sector of the s	ield in database file
Field name: Text	
Link to images and native files in th	neir current location
Truncate text values that exceed	their field size
	OK Cancel

Option	Description
Use specific database (*.dcb) override path	Allows users to append to the desired database.
Database path	This option is used in conjunction with the "Use specific database (*.dcb) override path" option. Click Browse to locate a Concordance Desktop database. Exported records will be appended to the selected *.dcb file. If you are exporting the database to a different computer/server than where LAW is located then the Concordance services (Concordance Admin Server and Concordance Server services in services.msc) need to be enabled as a network account instead of local account.

Option	Description
Path Notation	The path notation is used to specify how image paths are written to the Opticon load file during the export process.
	With Hard Path selected, the load file will display a full path to each output file, such as C: \Exports\TestCase\Vol001\image.tif.
	The Relative Path setting uses a relative path to the images from the export path, instead of the entire path (minus the drive letter).
	If the UNC Path option is selected, and the export path is a mapped network drive, the image paths are written using an UNC notation, for example:
	\\computername\sharename\
If Record Match is Found	The selected option will determine the action LAW will take if a matching record is found in the Concordance database when utilizing the append feature. The three options are:
<ul> <li>Skip Record</li> </ul>	Record will be omitted if it already exists.
<ul> <li>Update Existing Record</li> </ul>	Any new information will be applied to the existing record, if one is located.
<ul> <li>Append All Records</li> </ul>	All records will be appended to existing database.
Field Settings         Concordance Field Settings         Note: Fine field settings only rapply to Concordance BIOE apport. Medity these fields for Concordance BIOE apports by editing the E-Discovery Acted database template Found under the E-Discovery Acted database template found in the E-Discov	Click this button to open the <b>Concordance Field Settings</b> dialog box, which lists the fields in the current LAW case. The fields can be selected as "Keyed" or "Indexed" fields before exporting the database to Concordance. When the Concordance database is opened, the selected key and indexed fields are listed in File > Modify. Note: These field settings only apply to Concordance 8 databases (or higher). To modify fields for earlier database versions, edit the <b>E-Discovery.dcb</b> database template located in the Template folder in the LAW installation
<u>QK</u> ancel	directory.
<b>Security</b> (Only available in version 7.2+)	Click <u>Security</u> to configure Concordance Desktop database server settings for remote servers.
Concatenate DCB's across separate partitions	Select this option to concatenate the databases into one database and then export it into partitions. For example, a partition size of 650 MB creates partitions of the concatenated database that can be copied to CDs. All of the database partitions are treated as one database. The partition size is set in the Options tab of the Export Utility.

Option	Description	
Include document/OCR text	When enabled, this feature includes exported text to a field in the database.	
as a field in database file	Type the field name in the text box provided.	
	Note: When the exported text exceeds the Concordance Desktop allowable limit of 12 MB for a field, the excess text will be entered into the next incremental field up to a maximum of six fields. For example, if the first text field is LAW_OCR_01, the first 12 MB of text goes into that field. The next 12 MB of text goes into LAW_OCR_02 and so forth until LAW_OCR_06. If there is still text to be stored, an error message is logged indicating that the text size exceeded maximum space available and data was truncated.	
Link to images and native files in their current location		
<b>Truncate text values</b> <b>that exceed their</b> <b>field size</b> If this setting is enabled, records with text values exceed their field size in the target DCB will still be to the database. The offending text values will be truncated and a warning will be logged. When disal these records will not be added to the DCB and err be logged. The warning and error messages will inc field name, field size, and the offending data size.		

## Concordance Direct (DCB)

## To configure export to Concordance Direct (DCB)

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **Concordance Direct (DCB)** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **Concordance Direct (DCB)** and then click **Configure**.

The **Concordance Direct Settings** dialog box appears.

Concordance Direct Setting	s ×
Use specific database (*.dcb) or	verride path
Database path	
	<u>B</u> rowse
Security <u>F</u> ield Settings	
	vailable with Concordance 8.0 or higher)
Path Notation	If Record Match is Found:
O Hard Path	O Skip Record
Relative Path	Update Existing Record
O UNC Path	Append All Records
Automatically load Opticon/N	lative hase files
Concatenate DCB's across sep	· · · ·
Create Concordance 10.0 data	
Enable support for Concordan	ce Native Viewer
Include document/OCR text a	s a field in database file
Field name: Text	
Link to images and native files	in their current location
Truncate text values that exceed	d their field size
	<u>O</u> K <u>Cancel</u>

Option	Description
Use specific database (*.dcb) override path	Allows users to append to the desired database.
Security	The Security feature applies login information when appending to existing Concordance DCB databases. Click the button to enter a user name and password for the database. The Security button is disabled in versions of Concordance that do not support this feature,
Database path	This option is used in conjunction with the "Use specific database (*.dcb) override path" option. Click Browse to locate a Concordance database; exported records will be appended to the selected *.dcb file.

Option	Description
Path Notation	The path notation is used to specify how image paths are written to the Opticon load file during the export process. With Hard Path selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif. The Relative Path setting uses a relative path to the images from the export path, instead of the entire path (minus the drive letter). If the UNC Path option is selected, and the export path is a mapped network drive, the image paths are written using an UNC notation, for example: \\ comput er name\ shar ename\ Note: Hard paths will always be used if the option <b>Automatically</b> <b>load Opticon imagebase files</b> is enabled.
If Record Match is Found	The selected option will determine the action LAW will take if a matching record is found in the Concordance database when utilizing the append feature. The three options are:
Skip Record	Record will be omitted if it already exists.
Update Existing Record	Any new information will be applied to the existing record, if one is located.
Append All Records	All records will be appended to existing database.
<section-header></section-header>	Click this button to open the <b>Concordance Field Settings</b> dialog box, listing the fields in the current LAW case. The fields can be selected as "Key" or "Indexed" fields before exporting the database to Concordance. When the Concordance database is opened, the selected key and indexed fields are listed in File > Modify. Note: These field settings only apply to Concordance 8 databases (or higher). To modify fields for earlier database versions, edit the <b>E-Discovery.dcb</b> database template located in the Template folder in the LAW installation directory.
Concatenate DCB's across separate partitions	Select this option to concatenate the databases into one database and then export it into partitions. For example, a partition size of 650 MB creates partitions of the concatenated database that can be copied to CDs. All of the database partitions are treated as one database. The partition size is set in the Options tab of the Export Utility.
Automatically load Opticon imagebase files	When enabled, LAW will automatically load any exported images into Opticon, eliminating the need for the user to do so once the Concordance database is created.
Enable support for Concordance Native Viewer	When enabled, configures the load file created during export to be opened with Concordance Native Viewer 1.0. This setting is selected by default.

Option	Description	
	<ul> <li>If both native and image files exist for a record the image file should take precedence in the Opticon file.</li> </ul>	
	<ul> <li>If both native and image files exist for a record and if include tagged documents is also selected then the native file takes precedence in the Opticon file.</li> </ul>	
Include document/OCR text as a field in database file	When enabled, this feature includes exported text to a field in the database. Type the field name in the text box provided.	
Link to images and native files in their current location	Leaves any images and/or native files included in the export in their current location (LAW case directory). This feature greatly improves the speed of the export because no files are being copied and LAW must only generate the load files. Paths in the load file will reflect the current location of the files.	
Truncate text values that exceed their field size	If this setting is enabled, records with text values that exceed their field size in the target DCB will still be added to the database. The offending text values will be truncated and a warning will be logged. When disabled, these records will not be added to the DCB and errors will be logged. The warning and error messages will include the field name, field size, and the offending data size.	

## **Delimited Text**

## To configure export to delimited text

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **Delimited Text** and then click the **Select** > button.
- 4. In the Selected Formats list, click Delimited Text and then click Configure.

The **Delimited Text Settings** dialog box appears.

👅 Delimite	ed Text Settings 🛛 🛛 🔀
Data Delim	iters
Field	, (044) 🗸 🗸
Text	"(034) 💌
⊂Path Nota	tion
OHard	l Path
💿 Rela	tive Path
	Path
(Note:	nicode data (UCS-2 format) Excel will not parse a Unicode file correctly by unless a tab [009] is used for the field delimiter)
	OK Cancel

Option	Description
Data Delimiters	Choose the desired delimiters to surround each field and/or field value in the delimited text file. The Delimited Text export generates a *.csv file named for the last folder in the export path (i.e., Vol001.csv).
Path Notation	The path notation allows users to specify how image paths are written to the load files during the export process. With Hard Path selected, the load file will display a full path to each output file, such as C: \Exports\TestCase\Vol001\image.tif. The Relative Path setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter). If the UNC Path option is selected and the export path is a mapped network drive, the image paths are written using an UNC notation ( \\computername\sharename\).

Allow Unicode Select this option to view any Unicode data existing in the selected data (UCS-2 export fields in the delimited text (CSV) file created during export. format)

- ✓ The Allow Unicode data setting only applies to Concordance database versions 10 and above.
- Excel will not parse a Unicode file correctly by default unless a tab [009] is used for the field delimiter.

## DocuMatrix 1.5

## To configure export to DocuMatrix 1.5

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- In the Available Formats list, click <u>DocuMatrix 1.5</u> and then click the Select > button.
- 4. In the **Selected Formats** list, click **DocuMatrix 1.5** and then click **Configure**.

The **DocuMatrix Settings** dialog box appears.

@ DocuMatrix Settings
Case Name
Database Name
✓ Include attachments by parent
✓ Include page offset data with OCR
Create XML for fixing existing documents
Renumber documents sequentially
Starting #
OK Cancel

Option	Description	
Case Name and Database Name	These are both optional settings and are not required to create the export from CloudNine™ LAW. These values may be entered if requested.	
Include attachments by parent	Forces CloudNine $\ensuremath{^{\text{\tiny M}}}$ LAW to include attachments with any selected parent.	
Include page offset data with OCR	This setting uses the OCR information created from the ExperVision or ABBYY OCR engine to create information in the load file for producing hit highlighting in DocuMatrix. Without this setting enabled, OCR text will be included in the load file, but the location of each word will not be included. ("Include Full Text" must also be checked on the Formats/Documents tab of the Export Utility.)	

Option	Description	
Create XML for fixing existing documents	Use this setting to create an XML file specifically used for updating existing records in an existing DocuMatrix case.	

**Renumber documents** When enabled, LAW will renumber the documents in the .xml load file, starting with the specified value in the Starting # field.

DocuMatrix requires attachment (child) documents to have a parent in the load file. If an attachment is included to be exported but the parent is not (using the manual document range selection), this may cause problems when loading the file into DocuMatrix.

## EDRM XML 1.0

## To configure export to EDRM XML 1.0

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the **Export Utility**, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **EDRM XML 1.0** and then click the **Select** > button.
- 4. In the **Selected Formats** list, click **EDRM XML 1.0** and then click **Configure**.

The **EDRM 1.0 Settings** dialog box appears.

EDRM 1.0 Settings	
Batch Name	
Path Notation	
O Hard Path	
<ul> <li>Relative Path</li> </ul>	
O UNC Path	
Include document/OCR text	as content in load file
*Note: Use of this setting data contains any Unico	g is not recommended if your de due to incompatibilities racters and the XML format.
Link to images and native file	s in their current location
(	OK Cancel

Option	Description
Batch Name	Associates a specific name with the exported set of files and metadata. The value entered in the text box will be stored in the XML load file in the Batch Name tag.
Path Notation	Specifies how image paths are written to the load files during the export process. With Hard Path selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif. The Relative Path setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter). If the UNC Path option is selected and the export path is a mapped network drive, the image paths are written using a UNC notation ( \ \computername\sharename\). When enabled, the Include document/OCR text as content in load file setting includes the text for each document (if available) within the EDRM XML file. Specifically, the text will appear between the starting and ending InlineContent tags.
Include documen t/OCR text as content in load file	Adds extracted full text of document and any OCR text to the load file.

Option	Description
Link to images and native files in their current location	Creates links in the load file to the current location of image files and all other types of files.

EDRM XML 2.0

## To configure export to EDRM XML 2.0

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the **Export Utility**, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **EDRM XML 2.0** and then click the **Select** > button.
- 4. In the **Selected Formats** list, click **EDRM XML 2.0** and then click **Configure**.

The EDRM 2.0 Settings dialog box appears.

EDRM 2.0 Settings		
Path Notation		
O Hard Path		
<ul> <li>Relative Path</li> </ul>		
O UNC Path		
Include document/OCR text as content in load file *Note: Use of this setting is not recommended if your data contains any Unicode due to incompatibilities with many Unicode characters and the XML format.		
Link to images and native file	s in their current location	
(	OK Cancel	

Option	Description
Path Notation	Specifies how image paths are written to the load files during the export process. With Hard Path selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif. The Relative Path setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter). If the UNC Path option is selected and the export path is a mapped network drive, the image paths are written using a UNC notation ( \ \computername\sharename\).
	When enabled, the Include document/OCR text as content in load file setting includes the text for each document (if available) within the EDRM XML file. Specifically, the text will appear between the starting and ending InlineContent tags.
Include documen t/OCR text as content in load file	Adds extracted full text of document and any OCR text to the load file.
Link to images and native files in their current location	Creates links in the load file to the current location of image files and all other types of files.

✓ If you are planning to export to EDRM 2.0 and then re-import the XML back into a new LAW case, be sure to include the <FolderPath> field in the load file. The <FolderPath> field is required in order to recreate the folder structure in LAW upon import.

## *iCONECT*

## To configure export to iCONECT Settings

1. In the main window, on the Tools menu, click Export Utility.

- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **iCONECT** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **iCONECT** and then click **Configure**.

The **iCONECT Settings** dialog box appears.

🙆 iCONECT Setti	ings	X
Path Notation —		
O Hard Path		
Relative Pa	ath	
O UNC Path		
Date Format:	MM/DD/YYYY	
Include docume	ent/OCR text as a field in load file	
Field name:	Text	
	OK Cancel	

Option	Description
Path Notation	The path notation allows users to specify how image paths are written to the load files during the export process.
	<ul> <li>With Hard Path selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif.</li> </ul>
	• The <b>Relative Path</b> setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter).
	• If the <b>UNC Path</b> option is selected and the export path is a mapped network drive, the image paths are written using a UNC notation (\\computername\sharename\).
Date Format	Choose the date format for any exported date fields. Choose the desired format from the drop-down list.
Include document/OCR text as a field in load file	Includes the text for each document (if available) as a field in the CaseLogistix XML file.
	The <b>Field Name</b> text box is used to specify the name of the field to which the text will be exported.

#### Inmagic Export Settings

#### To configure export to Inmagic DB/TextWorks Settings

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **Inmagic DB/TextWorks** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **Inmagic DB/TextWorks** and then click **Configure**.

The Inmagic DB/TextWorks Settings dialog box appears.

🔁 Inmagic Settings 💦 🔀
Path Notation
O Hard Path
<ul> <li>Relative Path</li> </ul>
O UNC Path
OK Cancel

- 5. Configure **Path Notation** options as needed:
- With **Hard Path** selected, the load file will display a full path to each output file, such as C:\Exports\TestCase\Vol001\image.tif.
- The **Relative Path** setting uses a relative path to the images from the export path instead of the entire path (minus the drive letter).
- If the **UNC Path** option is selected and the export path is a mapped network drive, the image paths are written using a UNC notation (\\computername\sharename\ ...).

#### Introspect eCM

#### To configure export to Introspect eCM

1. In the main window, on the **Tools** menu, click **Export Utility**.

- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **Introspect eCM** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **Introspect eCM** and then click **Configure**.

The Introspect Settings dialog box appears.

Z Introspect Settings
General
Batch Name
(Empty strings will be given a default name)
Index ID 0 Folder ID 0
Include all Bates numbers
Link to images and files in current location
Use IDX version 5 format
Field IDs
Priority
O Low     ✓ Index flag     ✓ Render flag
O High ✓ Hold flag
OK Cancel

Option	Description	
General	Enter values for:	
	<b>Batch Name.</b> If left blank, the volume name of the exported load file will be used by default.	
	Index ID. Appears as repeating value in the load file.	
	Folder ID. Appears as repeating value in the load file.	
	Each of these three values is usually provided if this format has been requested.	
Include all Bates numbers	Creates a text file called " <image/> _uid.txt" for each multi-page document and contains a list of PageIDs contained in the multi-page document.	

	Description			
Link to images and files in current location	When enabled, the export process will generate the load file(s) and link them to the images and/or native files in their current location; the files are not copied.			
	Note: When using t in the CloudNine™ L of the images. Also, image path of the c used (required by Ir name as configured file will be created i image directory of t	AW case in orde the IDX load file ase so relative p ntrospect) and n in the Introspec n the export pat	er for Introspect e will always be baths to the doc amed according it settings. A sh	to view all pages written to the cuments can be to the batch hortcut to the load
Use IDX Version 5 format	Forces LAW to conf Introspect 5.	igure the load fil	e to match the	specifications for
<field ids=""></field>	Click this button to	display the field	configuration d	ialog shown below:
	Name / @Accessed @ApptEnd	Field ID 10129 10133	Multi-Entry Del.	^
	@ApptStart	10132		
	@ApptStart @Created	10132 10127		
	@Created @LastMod	10127 10128		
	@Created @LastMod @LastPrint	10127 10128 10134		
	@Created @LastMod @LastPrint @Received	10127 10128 10134 10131		
	@Created @LastMod @LastPrint @Received @Sent	10127 10128 10134 10131 10130		
	@Created @LastMod @LastPrint @Received @Sent _DocCat	10127 10128 10134 10131 10130 10094		
	@Created @LastMod @LastPrint @Received @Sent _DocCat _DupID	10127 10128 10134 10131 10130 10094 10095		
	@Created @LastMod @LastPrint @Received @Sent _DocCat _DupID _DupMethod	10127 10128 10134 10131 10130 10094 10095 10097		
	@Created @LastMod @LastPrint @Received @Sent _DocCat _DupID	10127 10128 10134 10131 10130 10094 10095		
	<pre>@Created @LastMod @LastPrint @Received @Sent _DocCat _DupID _DupMethod _FTIndex</pre>	10127 10128 10134 10131 10130 10094 10095 10097 10022		
	<ul> <li>@Created</li> <li>@LastMod</li> <li>@LastPrint</li> <li>@Received</li> <li>@Sent</li> <li>_DocCat</li> <li>_DupID</li> <li>_DupMethod</li> <li>_FTIndex</li> <li>_GUID</li> </ul>	10127 10128 10134 10131 10130 10094 10095 10097 10022 10120		
	<ul> <li>@Created</li> <li>@LastMod</li> <li>@LastPrint</li> <li>@Received</li> <li>@Sent</li> <li>_DocCat</li> <li>_DupID</li> <li>_DupMethod</li> <li>_FTIndex</li> <li>_GUID</li> <li>_PS_ARCX</li> </ul>	10127 10128 10134 10131 10130 10094 10095 10097 10022 10120 10099		
	<ul> <li>@Created</li> <li>@LastMod</li> <li>@LastPrint</li> <li>@Received</li> <li>@Sent</li> <li>_DocCat</li> <li>_DupID</li> <li>_DupMethod</li> <li>_FTIndex</li> <li>_GUID</li> <li>_PS_ARCX</li> <li>_PS_ATTX</li> </ul>	10127 10128 10134 10131 10130 10094 10095 10097 10022 10120 10099 10101	KCance	
Introspect Field Information dialog box	<ul> <li>@Created</li> <li>@LastMod</li> <li>@LastPrint</li> <li>@Received</li> <li>@Sent</li> <li>_DocCat</li> <li>_DupID</li> <li>_DupMethod</li> <li>_FTIndex</li> <li>_GUID</li> <li>_PS_ARCX</li> <li>_PS_ATTX</li> </ul>	10127 10128 10134 10131 10130 10094 10095 10097 10022 10120 10102 10101 10102 0099 10101 10102 0099 10101 10102	alues for any of	the fields.

IPRO IntelliVIEW

## To configure export to IPRO IntelliVIEW

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **IPRO IntelliVIEW** and then click the **Select** > button.
- 4. In the **Selected Formats** list, click **IPRO IntelliVIEW** and then click **Configure**.

The **IPRO Settings** dialog box appears.

تأ: IPRO Settings ×
Include index fields in load file Edit
Include OCR word information
Write to separate LFP file
🗌 Number pages (w/IPRO annotations)  📃
(Tahoma, 12 pt)
Alignment: Right 👻
Vertical Position (0-100%): 97
✓ Use new folder flags ( DocBreak = F )
Use volume path notation
<u>O</u> K <u>C</u> ancel

Option	Description
Include index	Specifies fields to include in the LPF file.
fields in load file	Click the Edit button to display the IPRO Field Information dialog.

Option	Description
	ه: IPRO Field Information       ×         Select all fields to be included in the IPRO export file (*.lfp). The field type
	determines how the field should be included, as an IS or an IO entry, IS entries being reserved for pre-defined tags that exist in the IPRO project. NOTE: Information (IO) fields are limited to 10 per load file and must be mapped to a field number (1-10).
	Available Fields Field Information
	Name Index Type  Field Name: @Accessed
	@Accessed 0 INFO     Field Type:
	@ApptEnd 0 INFO     @ApptStart 0 INFO     Tag/Issue (IS)
	@Created 0 INFO     Information (IO)
	Representation
	□ @LastPrint 0 INFO
	@Received 0 INFO
	O INFO     DocCat     O INFO     Tag Fields: 0
	DocCat 0 INFO Info Fields: 0
	DupMethod 0 INFO
	0 field(s) selected <u>OK</u> <u>Cancel</u>
	<ul> <li>You can select of up to 10 Information (IO) fields and as many Tag/Issue (IS) fields as you need.</li> <li>When specifying the IO tags, an index value (1-10) must be assigned to the selected field and will match the corresponding field in IPRO.</li> <li>No two selected IO fields may have the same index value. Selection of index fields in this window is independent of the fields</li> </ul>
	selected under the <b>Fields</b> tab in the Export Utility. After the desired selections have been made, click <b>OK</b> to save the changes and return to the <b>IPRO Settings</b> dialog.
Include OCR Word Informatior	OCR produced using the ExperVision or ABBYY OCR engine may be included in the IPRO load file using the full text (FT) tag, which allows full text searching in IPRO.
	• To separate the OCR text from the image information, select <b>Write</b> to separate LFP file. This option will generate two IPRO files displayed as [Volume].lfp and [Volume](ocr).lfp.
Number pages (w/IPRO	This feature allows CloudNine™ LAW to create special tags in the exported LFP file that apply the current PageID of the document as

Option	Description
annotations)	an "IPRO Annotation." This allows IPRO users to view/hide the PageID annotation just as if the annotation were created in IPRO itself.
	Alignment determines the horizontal location of the annotation:
	• Left
	Centered
	• Right
	<b>Vertical Position</b> places the annotation relative to the height of the document. Select 0% to create an annotation at the top of the page. Select 100% to create the annotation at the bottom of the page.
	This annotation is applied directly on top of the existing image; therefore, it could potentially cover existing image data. The IPRO annotation does not modify the image itself.
Use new folder flags (DocBreak = F)	Use this setting to include an (F) flag in the IPRO .lfp file as the document break at the beginning of each new folder. The default value for this feature uses the document (D) flag.
Use volume path notation	Select this option to use a volume path notation. Otherwise, a full path (with drive letter) will be used and no volume will be specified.

## JFS Litigator's Notebook

Use the JFS Settings dialog box to map LAW fields to default JFS fields.

## To configure export to Litigator's Notebook Settings

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **JFS Litigator's Notebook** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **JFS Litigator's Notebook** and then click **Configure**.

The JFS Litigator's Notebook Settings dialog box appears.

JFS Litigator's Notebook Settings	_ 🗆 🖂
Available Fields DocCat DupID DupMethod FTIndex PS_ARCX PS_ATTX	JFS Fields Attachment ID Body Characteristics Document Date Document Text Document Type
Mapped Fields	Delete
Use alternate format (Only mapped fields,	, one per line)

5. Map CloudNine<sup>™</sup> LAW fields to JFS fields according to the information in the following table:

To perform this action	To this
Map a LAW field to a	1. Select the <b>LAW</b> field in the <b>Available Fields</b> list.
particular JFS field.	2. Select a field in the <b>JFS Fields</b> list.
	3. Click <b><link fields=""/></b> .
	The fields are added to the Mapped Fields list.
Undo a mapped field.	Select an item in the <b>Mapped Fields</b> list and then click <b>Delete</b> .
List only the exported field names (per line) with the corresponding field value.	Select <b>Use alternate format (only mapped fields, one per line)</b> .

PDF Conversion

To configure export to PDF Conversion Settings

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **PDF Conversion** and then click the **Select >** button.
- 4. In the Selected Formats list, click PDF Conversion and then click Configure.

The **PDF Settings** dialog box appears.

😕 PDF Settings 🛛 🔀		
Create bookmarks for grouped documents		
Bookmark Caption:		
Parent <batesrng></batesrng>		~
Attachments	<batesrng></batesrng>	~
Populate PDF metadata		
Title	Title	*
Subject	Subject	~
Author	Author	~
Keywords	Keywords	~
OK Cancel		

Option	Description	
Create bookmarks for grouped	Use this setting in conjunction with the <b>Combine</b> <b>Parents/Attachments</b> option, found in the Export Utility under the <u>Options tab</u> , to create bookmarks in exported PDF files.	
documents	If a document is not a parent or contains no attachments, no bookmarks will be created in the PDF file for that document.	
	The <b>Parent and Attachments</b> drop-down lists will contain the index fields that exist in the current case.	
Bookmark Caption	The fields will be used as the bookmark titles in the exported PDF.	
Populate PDF metadata	This setting may be used to populate the metadata of a PDF file with index field values stored in the LAW case. This feature must be used in conjunction with the <b>Combine Parents/Attachments</b> option located in the <u>Options tab</u> of the Export Utility.	

#### Ringtail Casebook

#### **To configure export to Ringtail Casebook**

In the main window, on the **Tools** menu, click **Export Utility**.

- 1. In the **Export Utility**, click the **Formats/Documents** tab.
- In the Available Formats list, click Ringtail CaseBook and then click the Select > button.
- 3. In the Selected Formats list, click Ringtail CaseBook and then click Configure.

The **Ringtail Settings** dialog box appears.

😽 Ringtail Settings 🛛 🔀
Allow long folder names (over 20 chars)
(This is NOT recommended, use at your own risk)
Include document/OCR text as a field in load file
Field name: OCR_Text
✓ Insert special page markers in OCR text
Replace existing page markers
✓ Include reference to native file in Pages table
Multi-entry fields
OK Cancel

Option	Description
Allow long folder names (over 20 chars)	This option allows CloudNine™ LAW to ignore Ringtail's recommended folder name length limit of 20 characters.

Option	Description
This setting is not recommended as Ringtail does not officially support long folder names. This option is available due to special LAW user requests.	
Include document/OCR text as a field in load file Ringtail does not directly support this method and it should be used with caution.	Inserts document text into a memo field inside the Ringtail load file. This was the default method for handling Ringtail OCR with LAW versions 4.02.41 and earlier.
Insert special page markers in OCR text	<pre>Inserts a special page marker onto the OCR text of each page in the following format: ####{Page}   Page {PageID}^^^^</pre>
	This tag is used by Ringtail for linking the OCR text to the actual images.
Replace existing page markers	Removes any existing page markers currently on the OCR and replace them with the new value.
	This feature is useful if the OCR in LAW already contains these markers but document boundaries have since changed. Instead of re-OCRing the documents, this feature replaces the old tag with the new.
Include reference to native file in Pages table	When enabled, and native files are included for export, LAW will write a record for each native file to the Pages table in the Ringtail load file (export.mdb).
	Records referenced in the pages table will be available for viewing in the <b>Image</b> frame in Ringtail.
	If images and native files are included for export, and the native records are not referenced in the Pages table, Ringtail will locate the native files and allow viewing of them in the <b>Content</b> frame, provided the native files are named the same as the associated image and are located in the same folder.

Important Format Notes

The requirements for the Ringtail format should be followed closely to avoid possible problems importing this load file into Ringtail.

Format	Note
Folder names limited to 20 character	To enable folder names longer than 20 characters, enable the <b>Allow long folder names</b> option.
	By default CloudNine™ LAW truncates folder names longer than 20 characters.
Folder names may not contain spaces	Spaces in folder names will automatically be converted to underscores ("_") during the export process.
File names for exported text	Ringtail requires filenames for the exported text files to follow specific rules. The file name must:
	• Be the same as the image tag.
	• Have the .txt file extension.
Support for single- page and multi-page TIFFs	Ringtail supports either single-page or multi-page TIFFs; however, the most commonly used image format is single-page TIFF.
Document fields: • BegDoc# • EndDoc# • PgCount	These fields (if included in the <u>Fields tab</u> and selected for export) will be automatically placed in the <b>Export_Extras</b> table of the Ringtail load file.

Storm Viewer

#### About export to StormViewer

Storm Viewer is a freely distributable viewer available to the public. The viewer runs as a front-end to the Storm imagebase. The Storm imagebase can be built and distributed freely by users of CloudNine<sup>™</sup> LAW and Storm-X. Storm Versions 1.2 and above now offer the DB-Builder License which allows users to import industry standard loads files and raw image files to build their own Storm ImageBases.

Storm utilizes the powerful Advantage Local Server for accessing image data and metadata. The local server has a 5-user concurrent connection limit, so any 5 users may have a single database open at one time.

For users who wish to scale Storm for use as a document retrieval tool, and have more clients, the Advantage Database Server is a lightweight and powerful relational database

management system (RDBMS) that can add stability, speed, and connections to existing imagebases.

Storm Viewer exports will also work for the Storm software, a free CD-runtime viewer.

#### Summation

## To configure export to Summation

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **Summation Blaze** and then click the **Select** > button.
- 4. In the **Selected Formats** list, click **Summation Blaze** and then click **Configure**.

The **Summation Settings** dialog box appears.

🔊 Summation Settings 🛛 🛛 🔀		
Allow advanced (iBlaze) dii features (NOT) Write all fields to dii file	compatible with 5.21 and below) eDii Tokens	
Include document/OCR text directly in	dii file	
Include PST tokens directly in dii file		
Include @EDOC token for e-mail messa	ages	
Always write index fields to separate file (Note: This will override setting to write all	fields to dii file)	
✓ Include field names as first record of delimit	ed text file	
Data Delimiters	Dii Path Notation	
Field Separator , (044) 💌	O CD Volume (@V Vol:)	
Quote Character (034)	O Hard Path	
<return> Value in Data ~ (126) 💌</return>	⊙ Image Directory (@I)	
Restore Defaults		
(	OK Cancel	

Option	Description
Allow advanced (iBlaze) dii features	Enables features not compatible with versions 5.21 and below of Summation.
Write all fields to dii file	Allows the writing of seven or more index fields to be written to the DII file. The default export method is to write the index fields to a text file if the number of index fields is greater than seven.
Include document/OCR text directly in dii file This feature appears to have bugs in Summation. Form feed characters to delimit text pages are not supported and errors about unsupported operations may occur, although all the data does appear to get imported.	Allows the text for the exported documents to be included in the dii load file. If this setting is enabled, it will overwrite the 'Include Full Text' option on the Fields tab of the Export Utility for the Summation format.
Include PST tokens directly in dii file	Forces CloudNine <sup>™</sup> LAW to include an extra 'tag' in the edii file. The @PSTFile token allows Summation users to identify the source PST file where the e-mails originated. This can be helpful if there are many individual PST files being processed for a job. If this option is not checked, the @PSTFile token will be omitted from the load file (*.dii). This option is only available in cases that are enabled for electronic discovery.
Include @EDOC token for e-mail messages	If a PST or NSF mail store file is included in the export, enabling this option adds the @EDOC filename token to the load file (*.dii).
Always write index fields to separate file	Forces LAW to place all index field information into a delimited text file regardless of the number of index fields selected for export.
Include field names as first record of delimited text file	Places the index field names in the first line of the delimited text file. This is useful for determining the field order of the data in the load file or for importing into other applications.
Data Delimiters	The data delimiters for the delimited text file may be defined in this section. The default values for this feature can be reset by clicking the Restore Defaults button.

Option	Description	
Dii Path Notation	This setting is used to specify the type of volume notation to use in the dii file. The <b>CD Volume (@V Vol:)</b> option will return a tag in the dii similar to: "@D @VVol001: \Vol001\001\" where "Vol001" is the volume name. <b>Hard</b> <b>Path</b> creates a tag similar to: "@D C:\Exports\Vol001\001\". The <b>Image Directory (@I)</b> option will return a tag in the dii similar to: "@D @I\Vol001\001\" where "Vol001" is the volume name. The two options (@V and @I) are the most commonly used with @I being the recommended (most versatile) method. Most users of Summation have a preferred way of importing the dii files so it is important to check on the preferred method.	
eDii Tokens	This feature allows users to choose which tokens are placed in the Summation load file. All available tokens are selected by default. eDii Tokens Available Tokens Select All >> Select All >> Select > Select >	
	OK Cancel	

An INI setting is available to modify the **@MEDIA** value used for e-mail attachments that are e-mail files (i.e. MSG attached to an MSG).

By default, LAW will populate the **@MEDIA** token for these attachments as **Attachment** per the Summation documentation.

However, the value can be changed to **eMail** for e-mails attached to e-mails by adding the following setting in the Law50.ini file in the application path (i.e. C: Program Files (x86)Law50):

[Summation]

EmailAttachEmailMedia=eMail

If the [Summation] section already exists, add the key below it. Otherwise, add the entire setting as shown. To switch back to the default of **Attachment**, either remove or comment out the setting above or replace the **eMail** value with **Attachment**.

☑ The @O token will be included in the Summation load file in either of the following conditions:

1) The text is exported to a different location or has a filename different than the image.

or

2) When there is no TIFF image associated with a record.

## TrialDirector and Sanction

The TrialDirector and Sanction formats use the same configuration settings.

## To configure export to TrialDirector or Sanction

- 1. In the main window, on the **Tools** menu, click **Export Utility**.
- 2. In the Export Utility, click the **Formats/Documents** tab.
- 3. In the **Available Formats** list, click **InData's TrialDirector** or **Sanction** and then click the **Select >** button.
- 4. In the **Selected Formats** list, click **InData's TrialDirector** or **Sanction** and then click **Configure**.

The **TrialDirector Settings** dialog box appears.

🔽 TrialDirector Settings 🛛 🔀
NOTE: The TrialDirector settings are used by Sanction, as both exports produce the TrialDirector OLL file.
Document ID
<begdoc#> 🗸</begdoc#>
Object ID
<page id=""> 💉</page>
Description (Optional)
<none></none>
OK Cancel

Option	Description
Document ID	Uniquely identifies each document within the collection.
	Users may choose BegDoc# or any other index field in the CloudNine™ LAW case, such as DocID or Exhibit Number (for example).
Object ID	References each page within the document. This field may either be Page ID (used when BegDoc# is selected as the Document ID field) or Auto-Generate, which assigns a .001 extension (and so on) after the Document ID to each page within the document (i.e., EX001.001, EX001.002, EX001.003). The Auto-Generate feature is most commonly used when a field other than BegDoc# is selected as the Document ID.
Description (Optional)	Optional setting allowing users to populate the Description field in TrialDirector or Sanction with values from a user-defined field in the LAW database.

# **Fields Tab**

The Fields tab in the Export Utility is used to select the index fields to be included in the load files, create and maintain custom fields for exports, and to select the Image Tag, or document identifier, that links the index field data to the associated image or native document.

• To access this feature, from the main window, on the **Tools** menu, click **Export Utility**, and then click the **Fields** tab.

Export Utility					×
<u>File H</u> elp Formats / Documents Fields Options Fields	Advanced				
Selected Format <default></default>	_		format aporific fol	ds over default selections	
Available Fields	•		ed Fields	us over default selections	
@Accessed					
@Accessed A @ApptEnd @ApptStart @Created @LastMod	Select > Select All >>	#	Field Name	Export As	
@LastPrint @Received @Sent	< Remove				
_DocCat _DupID _DupMethod	<< Remove All				
_FTIndex _GUID _PS_ARCX	Top Move Up				
_PS_ATTX _PS_DIGESTX _PS_EMBEDX _PS_MDX	Move Down				
_PS_NATIVEX _PS_OLEX <attachmt></attachmt>	Bottom				
<attrange> <batesrng> <begattach></begattach></batesrng></attrange>	Custom Fields				
<begdoc#> <custodian></custodian></begdoc#>				Image Tag Field DocID	•
Cancel				< <u>B</u> ack <u>N</u> ext >	Einish

#### Selected format

The **Selected Format** list will contain up to five items, depending on the formats selected in the **Formats/Documents** tab:

- Default (always present in list)
- Summation
- Concordance
- Concordance Direct (DCB)
- Ringtail

In certain situations, users may need to include certain fields in a Summation load file and a different set of fields in a Concordance load file, for example, but would like to perform both exports at one time. CloudNine<sup>™</sup> LAW allows customization of the field selection and field names for each of the four aforementioned formats while still maintaining a "default" field selection for any other selected formats. This option eliminates creation of multiple exports solely to change index field information for one or more of the formats. For example, suppose you need to export to Summation, Concordance, and Storm Viewer, and the specifications call for different index fields to be included in each type of load file.

- 1. You would first choose the Storm Viewer fields with <Default> as the Selected Format in the Fields tab.
- 2. Next, you would select Summation from the Selected Formats list, check the "Use format specific fields over default selections" option, and then choose the desired fields for the Summation load file.
- 3. The final step would be to choose Concordance from the Selected Formats dropdown, check the "Use format specific..." option, and then choose the desired fields for the Concordance load file.

In another example, supposed you are asked to export to Summation and Storm Viewer. A requirement is for the export to include the same fields for both formats.

• In this scenario, you could choose <Default> in the **Selected Format** drop-down and then select the desired fields. These fields would then be included in both the Storm Viewer database and the Summation load file.

The **Use format specific fields over default selections** option enables the Available and Selected Fields lists when a format other than <Default> is chosen, allowing users to choose fields to be included in that format's load file.

# Selecting fields

# **Available Fields**

The **Available Fields** area displays a list of both user-defined and system fields that are available for export. The following table provides guidance on how to accomplish common tasks:

To accomplish this result	Do this
Include a field in the export	1. Highlight an index field in the <b>Available Fields</b> list.
	2. Click <b>Select</b> or double-click the field name.
	The field moves to the Selected Fields list.
	When performing native file productions it is important to export a unique reference number for the image tag from LAW for use in the reviewing database. Typically, the <b>DocID</b> will be used as for this purpose. This number will serve as the link between the two databases and will be used to tag the records in LAW that will be produced to TIFF, PDF, or paper.

To accomplish this result	Do this
Remove a field	Double-click a field in the <b>Selected Fields</b> list.
	Or
	Select a field and then click the <b>Remove</b> button.
	Fields may also be selected or deselected by clicking the <b>Select All</b> or <b>Remove All</b> buttons.
Change the order of fields	To change the order of the fields in the <b>Selected Fields</b> list, in the <b>Selected Fields</b> list, click the field you want to move, then click one of the following buttons:
	• <b>Top.</b> Moves the selected field to the top of the field list.
	• Move Up. Moves the selected field up one level.
	• Move Down. Moves the selected field down one level.
	• Bottom. Moves the field to the bottom of the field list.

# **Selected Fields**

The Selected Fields list is divided into three columns:

- # Each each field added to the Selected Fields list is assigned a number in the # column, based on where the field falls in the list. For example, the first field in the list has a 1 in the # column, and if there are 5 fields in the list, the last field in the list has a 5 in the # column.
- Field Name Displays the name of the selected index field.
- **Export As** Allows users to rename the field upon export. This does not rename the field in the LAW case itself, just in the load file. This is useful for applications that require fields to be named a certain way, such as Summation.
- Field names displayed in red once moved to the Selected Fields list indicates the field name is not compatible with one or more of the selected export formats (i.e., field name is too long or contains unsupported characters). The field will need to be renamed in the 'Export As' column prior to export. The field name will no longer appear in red once the name has been properly changed.

#### Custom fields

In CloudNine<sup>™</sup> LAW, you can create custom fields for exports in export profiles. Custom fields can be used to create fields that combine multiple LAW fields into a single field,

customize existing fields, and export the same fields more than once. Custom fields are created and maintained in the Custom Field Editor dialog box. To make custom fields easy to identify, all custom field names start with the @ symbol.

When an export profile containing custom fields is imported into another case, the custom fields are automatically created for the case when the export profile is imported into the case.

If an export profile imported into a case has a custom field containing a LAW field that does not exist in the case, the custom field will not be created in the case to which the export profile is being imported.

For example, if the export profile contains the custom field **@ETFileInfo**, which is a combination of the LAW **Filename** and **ET\_ThreadID** fields, but the case the export profile is being imported into does not contain the **ET\_ThreadID** field, the **@ETFileInfo** field will not be created in the case.

LAW comes with eight pre-defined custom date fields. These pre-defined fields cannot be edited or deleted in the Custom Field Editor dialog box, and are only available for electronic discovery-enabled cases. These custom date fields are combinations of existing LAW date fields:

- **@Accessed** = DateAccessed + TimeAccessed
- **@ApptStart** = DateAppStart + TimeAppStart
- **@ApptEnd** = DataAppEnd + TimeAppEnd
- **@Created** = DateCreated + TimeCreated
- **@LastMod** = DateLastMod + TimeLastMod
- **@LastPrint** = DateLastPrnt + TimeLastPrnt
- @Received = DateRcvd + TimeRcvd
- @Sent = DateSent + TimeSent

# To add a custom field

- 1. Open the Export Utility.
- 2. Click the **Fields** tab.
- 3. Click the **Custom Fields** button.

Clicking the **Custom Fields** button opens the **Custom Field Editor** dialog box.

Custom Field Editor						
Custom Field Definitions						
Field Name	Field Definition					
@Accessed	&[DateAccessed] &[TimeAccessed]	New				
@ApptEnd	&[DateAppEnd] &[TimeAppEnd]					
@ApptStart	&[DateAppStart] &[TimeAppStart]	Edit				
@Created	&[DateCreated] &[TimeCreated]					
@CustomFieldName	&[Custodian]&[SourceFile]	Delete				
@LastMod	&[DateLastMod] &[TimeLastMod]					
@LastPrint	&[DateLastPrnt] &[TimeLastPrnt]					
@Received	&[DateRcvd] &[TimeRcvd]					
@Sent	&[DateSent] &[TimeSent]					
OK Cancel						

4. Click the **New** button.

Clicking the **New** button opens the **New Custom Field** dialog box.

New Custom Field	
Name:	
CustomFieldName	
Definition:	
&[Custodian]&[SourceFile]	
	OK Cancel

5. In the **Name** field, type the field name.

Field names can be up to 30 characters and must be unique to the case. Unicode® characters are not supported in custom field names.

You do not need to type the @ symbol at the beginning of the field name. The @ symbol is automatically added to the field name when you click **OK** in the **New Custom Field** dialog box.

6. In the **Definition** field, type the custom field definition or select the name of the LAW field(s) you want to use for the custom field.

To select a field, for each field you want to add the to the **Definitions** field, click the **Insert Field** button, , next to the **Definition** field.

Clicking the Insert Field button, opens the Insert Field Reference dialog box.

Insert Field Reference	
Available Fields: <attachmt> <attrange> <batesrng> <begattach> <begdoc#> <custodian> <edfolder> <edfolder> <edsource> <endattach> <edsource> <endattach> <folderpath> <folderrng> <id> <mailstore> <numattach> <parentid> <pgcount></pgcount></parentid></numattach></mailstore></id></folderrng></folderpath></endattach></edsource></endattach></edsource></edfolder></edfolder></custodian></begdoc#></begattach></batesrng></attrange></attachmt>	▲ E OK Cancel

7. Click the field you want to add to the **Definition** field.

User-created page-level fields are not displayed in the **Available Fields** list in the **Insert Field Reference** dialog box.

8. Click **OK**.

Clicking **OK** adds the custom field to the **Custom Field Definitions** list.

#### To edit a custom field

- 1. Open the Export Utility.
- 2. Click the **Fields** tab.
- 3. Click the **Custom Fields** button.

Clicking the Custom Fields button opens the Custom Field Editor dialog box.

Custom Field Editor						
Custom Field Definition	s:					
Field Name	Field Definition					
@Accessed	&[DateAccessed] &[TimeAccessed]	New				
@ApptEnd	&[DateAppEnd] &[TimeAppEnd]					
@ApptStart	&[DateAppStart] &[TimeAppStart]	Edit				
@Created	&[DateCreated] &[TimeCreated]					
@CustomFieldName	&[Custodian]&[SourceFile]	Delete				
@LastMod	&[DateLastMod] &[TimeLastMod]					
@LastPrint	&[DateLastPrnt] &[TimeLastPrnt]					
@Received	&[DateRcvd] &[TimeRcvd]					
@Sent	&[DateSent] &[TimeSent]					
P						
OK Cancel						

- 4. In the **Custom Field Definitions** list, click the custom field you want to edit.
- 5. Click the **Edit** button.

Clicking the **Edit** button opens the **Edit Custom Field** dialog box.

Edit Custom Field		
Name:		
@CustomFieldName		
Definition:		
&[Custodian]&[SourceFile]		
	ОК	ncel

- 6. Make the necessary edits.
- 7. Click **OK** to save your changes and return to the **Custom Field Editor** dialog box.

# To delete a custom field

- 1. Open the Export Utility.
- 2. Click the **Fields** tab.
- 3. Click the **Custom Fields** button.

Clicking the **Custom Fields** button opens the **Custom Field Editor** dialog box.

Custom Field Editor		
Custom Field Editor Custom Field Definition Field Name @Accessed @ApptEnd @ApptStart @Created @CustomFieldName @LastMod @LastPrint @Received @Sent	s: Field Definition &[DateAccessed] &[TimeAccessed] &[DateAppEnd] &[TimeAppEnd] &[DateAppStart] &[TimeAppStart] &[DateCreated] &[TimeCreated] <b>&amp;[Custodian]&amp;[SourceFile]</b> &[DateLastMod] &[TimeLastMod] &[DateLastPrnt] &[TimeLastPrnt] &[DateRcvd] &[TimeRcvd] &[DateSent] &[TimeSent]	New Edit Delete
	OK Cancel	

- 4. In the **Custom Field Definitions** list, click the custom field you want to delete.
- 5. Click the **Delete** button.

Clicking the **Delete** button deletes the custom field.

# Image Tag field

The Image Tag is a document identifier field. Use it to link images or native documents to the matching index field data. The BegDoc# and DocID fields are commonly used for this purpose, but other user-defined fields may be used provided they contain a unique value and do not contain blank values for any record.

# **Options Tab**

In the Export Utility, the Options tab is where you configure many general settings that control how your export works. For example, the Options tab is where you set the output path, images, native, text, and load files, as well as the folder and file naming schemes, export logging, and various other output settings, such as file format.

To access this feature, from the main window, on the **Tools** menu, click **Export Utility**, and then click the **Options** tab.

e <u>H</u> elp ormats / Do	cuments   F	Fields Options	Advanced						
Dutput Path							Output Settings	;	
Export Path	( <path>\&lt;</path>	(Volume>)							
C:\Exports\	OmegaApr2	020\Vol001				Browse	Output Format	<default></default>	-
Partition Siz	e (0=Unlimi	ted) 650	мв 👻				Output Scale	Full size(100%)	-
							ouput scale	1 011 0120(100 70)	
Prompt t	o continue (	export when volume	is full				Image Drive	<default></default>	-
File Naming	Scheme						Merge Anno	tations	
							_		
File Type	Override	File Naming		Exts	Starting N	lum Reset	Retain	color	
<default></default>		<page id=""></page>					Combine pa	rents/attachments	
Images									
C. II Taut		D							
Full Text		DocID		•					
Native	~	DocID		<b>&gt;</b>					
Native	✓ control list fing Scheme	DocID	text		r Naming		Export Status	ing	
Native	✓ control list fing Scheme	DocID	text	Folde	r Naming mental	Files/Folder	Enable logo	jing	
Native Create of Folder Namin File Type	✓ control list fing Scheme	DocID	text	Folde	-	Files/Folder	Enable logo	jing	
Native Create of Folder Namir File Type <default></default>	✓ control list fing Scheme	DocID	text	Folde Incre	mental	Files/Folder 250	Enable logo	jing	

#### **Output Path**

This area of the Options tab contains settings related to the location in which the files will be exported.

Output Path							
Export Path ( <path>\<volume>)</volume></path>							
C:\Exports\asd\Vol001 Browse							
Partition Size (0=Unlimited) 650 MB -							
Prompt to continue export when volume is full							

**Export Path** - This value will be the location to which the exported files will be saved. These files may include one or a combination of images, native files, full text, and load files, depending on the selected options.

☑ The maximum character length for file paths in the Export Path field is 250 characters. If the file path exceeds 250 characters, any load files generated by the export will be saved to the \$Invalid\_Paths folder in the export directory. The rest of the files exported by LAW will be exported to the file path entered in the Export Path field.

**Partition Size** - This setting is used to determine how much data is written to each volume. The last folder listed in the output path is considered to be the volume name. For example, if the export path listed is C:\Exports\EDD\_001\Vol001, then the first volume will be Vol001. When the partition size has been reached, a Vol002 folder will be created, etc. The default of 650 MB should be used if planning on burning the exported data to CDs but may be increased or decreased as needed (0=unlimited, all records will be written to one volume).

**Prompt to continue export when volume is full** - When this option is enabled, a prompt will appear on the screen each time a volume becomes full and a new volume must be created. The user must click Yes each time in order for CloudNine<sup>TM</sup> LAW to create the new volume and continue with the export.

# Default Export Path

You can specify a default export path by providing the following settings in LAW50.ini under the LAW install folder (i.e. C:\Program Files (x86)\Law50 or under the VirtualStore folder if you don't have write access to the install folder)

[Export]

DefaultDrive=L:

DefaultPath=<Drive>\Exports\<Case Name>\Vol001

Where **DefaultDrive** is the mapped network share of the export location.

LAW will automatically replace <Drive> and <Case Name> in the path above with **DefaultDrive** and the current case name.

# File Naming Scheme

The file naming grid is used to specify the type of file name to be used for images, native files, and full text.

File Type	Override	File Naming	Exts	Starting Num	Reset
<default></default>		<page id=""></page>	¥		
Images		<page id=""></page>	¥		
Full Text		DocID	¥		
Native		DocID			

The grid columns are described in the following table:

Column	Description
File Type	Lists each file type included in the export as well as a Default option, which will apply to all types unless the Override option is used. Only file types that are selected on the <u>Formats/Documents tab</u> will be displayed; the Default option will always be displayed and represents all three file types. Having each type listed separately allows users to apply different options to each (native, images, full text) if desired.
Override	Overrides the default settings for the desired file type. For example, if <b>BegDoc#</b> is needed as the filename for images and the original filename is needed for native files, select the <b>Override</b> option in the <b>Native row</b> and choose <b><original filename=""></original></b> in the <b>File Naming</b> column, leaving <b>BegDoc#</b> as the default.
File Naming	Specifies a file naming scheme for the exported files. Lists user-defined and system fields in the drop-down for use as the file naming convention, including DocID and BegDoc#.

Column	Description
Exts	Includes the file extension in the exported file name. This will be useful for single-page imports when a document-level file naming scheme is used (otherwise resulting in .001, .002, etc. extensions).
Starting Num	Available when the <b>Auto Number</b> file naming scheme is selected. Enter a starting number for the exported files; the value will increment by one for each exported record.
Reset Num	Available when the <b>Auto Number</b> file naming scheme is selected. Forces auto-numbering to restart to the specified starting number for each new folder.
Create control list file for extracted full text	Provides a control list (*.lst file) that consists of a unique document identifier for each record with full text as well as a path to the text file. This option is commonly used to import text into a Summation case with existing records but may be used for other purposes if needed. The .lst file will be created in the currently specified <b>Export Path</b> , also found in the <b>Options</b> tab.

#### **Folder Naming Scheme**

The folder naming grid is used to specify the folder structure to be used for the exported images, native files, and full text.

File Type	Override	Root Folder	Folder Naming	Files/Folder
<default></default>			Incremental	250
Images			Incremental	250
Full Text			Incremental	250
Native			Incremental	250

Each column in the grid and its purpose is described in the following table:

**Column Description** 

File Type Lists each type of file (images, native, text) included in the export as well as a '<Default>' option, which will apply to all types unless the Override option is used.

Column	Description
Override	Used to override the Default settings for the desired file type. For example, if <default> is set to Mirror Original, but the job specifications call for Incremental folders for native files only (and mirrored for images and text), the user could select 'Override' beside the Native file type and then choose Incremental in the Folder Naming column.</default>
Root Folder	If a root folder value is specified here, the file type(s) (images, native, and/or full text) will be placed in the mirrored or incremental folders, following this folder structure: <export path="">\<root folder="">. For example, if a "r;Text" root folder is specified for the Full Text file type, and the specified export path is C:\Exports\EDD_001\vol001, then the full text will be placed in C:\Exports\EDD_001\vol001\Text. The Folder Naming scheme (see next option) will be applied following the Root Folder.</root></export>
Folder Naming	Three options exist for folder naming: Custom, Mirror Original, and Incremental. One option may be applied to all by selecting the desired option as the <default>. Or, use the Override setting and choose different options for each. <b>Custom</b> - Uses 1-3 of the specified index fields to create a folder structure when exporting (see Files/Folder option below). <b>Mirror Original</b> - Mirrors the current structure as shown in the folder tree in CloudNine<sup>™</sup> LAW's main interface. <b>Incremental</b> - Places the specified number of files in a "001" folder, creates a "002" folder, etc. (see Files/Folder option below).</default>

**Files/Folder** - This option only applies to the Incremental and Custom folder naming schemes. If Incremental was chosen, enter the desired number of files to be placed in each folder or use the default of 250. If Custom was chosen, use this field to launch the Custom Folder Structure dialog and choose the field or fields containing the folder structure.

If a folder or file name length exceeds 250 characters for any records, the export path for those records will be changed to <Export Path>\\$Invalid\_Paths.

# Output Settings

The Output Settings section contains options related to output image files, annotations, and other miscellaneous settings. These settings are described as follows:

# **Output Format**

The Output Format setting allows users to convert images to an alternate format during the export process. The Output Format settings are:

# <Default>

When <Default> is selected, LAW will automatically determine whether the image is exported as a:

- 24-bit color JPEG
- 8-bit grayscale JPEG
- 1-bit black and white TIFF
- Image-only PDF if exporting PDF files to a single-page format other than the PDF Conversion format on the Formats/Documents tab.

# • JPEG

The JPEG format only support single-page image files and should NOT be used with exports that produce multi-page images.

# • PCX

The PCX format only support single-page image files and should NOT be used with exports that produce multi-page images.

# • PDF

The PDF format can be used to convert images to PDF and may be used with single- or multi-page image formats. This setting has the same effect as choosing the 'PDF Conversion' export format. The PDF Conversion format provides a means to export images as PDF with no load files, whereas the PDF output format setting produces PDF images with all specified load files.

# • PDF (Image Only)

The PDF (Image Only) format exports images as image-only PDF files.

• PNG

The PNG format only support single-page image files and should NOT be used with exports that produce multi-page images.

# • TIFF

# • TIFF (Binary)

The TIFF (Binary) format exports images as black and white 1-bit TIFF files.

- ☑ Note the following when configuring output formats:
  - When exporting PDFs to any single-page format other than PDF Conversion, if <Default> is selected as the output format, the PDF files will be converted to image-only PDF files. If PDF is the output format, the PDF files will be searchable.
  - If exporting multi-page color or grayscale TIFF images to a single page format with the Output Format set to <Default>, LAW will automatically export these files as JPEG images. This is done for better compatibility with older image viewers that may not support TIFF w/JPEG compression and to minimize the

file sizes of the color images. Black and white TIFF images will not be affected by this process.

# **Output Scale**

The Output Scale setting allows users to reduce the size (AND quality) of the images during the export process. This setting is typically used to create a set of images to be viewed over the Internet or an intranet where bandwidth is limited. This feature may be used to create a second set of images to be viewed as thumbnails for browsing and allow the entire original image to be loaded upon request from a separate location.

#### Image Drive

The Image Drive setting allows users to specify an alternate drive letter for hard image paths written to load files. If using hard paths for images (not recommended, but necessary with some formats), this setting will replace the drive letter (with the designated letter) written to the load files, so they can be imported without modification from another system. The <Default> setting uses the drive letter of the export path. This setting should only be used if importing the data from another system and the drive letter from which it will be read is known.

#### **Merge Annotations**

Merging annotations will "burn" all annotations onto the exported images. See Annotations for more information on merging.

# **Retain Color**

This setting allows color annotations to be preserved when merging annotations. It is ONLY applied when an output format of TIFF is selected for a multi-page export. The Retain Color setting for annotations currently only exists in the Export Utility.

This requires changing the color format of the page and may significantly increase the size of the images. Also, if using the PDF setting users should first ensure that the target application supports PDF images.

#### **Combine parents/attachments**

This feature merges attached documents to their respective parents during the export process, creating a single document.

#### Export Status

This feature allows users to track whether or not a file has been exported.

Export Status	
Enable logging	
Log to:	
ExportStatus	•
Reset export status	

A user-defined field must be selected to store the export status from the drop-down. Exported files will receive a value of Y; records that did not export will receive a value of **N**. If an index field was created for this purpose, enable this setting and choose the field from the list. If the "Reset export status" option is enabled, LAW will update the export status for all documents in the case (regardless of the documents selected for export).

# Creating CD Volumes

CloudNine<sup>™</sup> LAW can export a case to compact disk (CD). Note the following about creating CD volumes using the Export Utility:

• The **Options** tab in the <u>Export Utility</u> contains an Output Path section. Inside this section are options to set the export path and partition size of the volumes created.

Output Path				
Export Path ( <path>\<volume>)</volume></path>				
C:\Exports\asd\Vol001	Browse			
Partition Size (0=Unlimited) 650 MB -				
Prompt to continue export when volume is full				

- If creating standard CD's, you should use 650MB, the default value. Most CD's can hold 700MB, but LAW needs additional buffer space. Since LAW must prevent documents from spanning across CD's, this extra space is used for fitting the last document on the CD. The resulting volume size could result anywhere from ~630MB to ~670MB depending on the documents in the case.
- The last folder of the export path is used as the volume label for the export, so it needs to be named accordingly. For example, an export path of "D: \Exports\Cases\John Doe\Vol001" will use "Vol001" as the volume label. All load files created (with the exception of Doculex) are named after the volume label (e.g., Vol001.dii, Vol001.dat, Vol001.oll, etc.) and all load files that reference a volume label will use this as the CD volume name. This is critical when performing exports that read image information from a CD with a reference to the CD via the volume name. If the volume of the CD is not specified as the last folder name, those applications will not be able to find the images located on the CD.

• Once the export has been created, depending on the size of the case, multiple volume folders may have been created. For example, this sample case created three volumes:

🗅 Demo Case 📃 🗆 🔀			
File Edit View	Favorites	Tools »	1
🕞 Back 🕤 🕑	) - 🍺	🔎 Sear	ch »
Address 🛅 C:\Expo	orts\Demo Ca	se 💌 🗄	Go
Name 🔺			Size
Vol001			
<			>

#### To export a case to CD

- 1. In the **Output Path** area of the Export Utility, select an output path, and a partition size.
- 2. Indicate whether to continue export across 2 or more CD volumes.
- 3. Begin burning the volume folders onto the CD.
- ▲ It is important this step is followed exactly or the load files may not load properly into the destination application. Open the desired CD burning software and create the CD so that the entire Vol001 folder is on the root of the CD and name the CD "Vol001". Repeat this step for each volume.

# Advanced Tab

The Advanced tab of the Export Utility contains settings to control blank values and to check for duplicate values for the selected image tag and file naming fields. The blank value and duplicate check settings are enabled by default. The Advanced tab also contains settings for exporting native files by tag, making sure redacted text and the native files for redacted documents are excluded from exports, and excluding field content for tagged documents. The native file and conditional field exclusion settings are disabled by default.

🖻 Export Utility	×
<u>E</u> ile <u>H</u> elp	
Formats / Documents   Fields   Options Advanced	
Perform Blank Value Checks	Perform Duplicate Checks
On file naming scheme	✓ On file naming scheme
✓ On image tag(s)	✓ On image tag(s)
Native File Filtering	Conditional Field Exclusions
Include native for tagged documents only	Exclude field content for tagged documents
<please a="" select="" tag=""></please>	<please a="" select="" tag=""></please>
Enforce protection of redacted documents	Select <u>F</u> ields
- Turbo Export	
Enable Turbo Export	
No. cores to be used for processing	
11 cores available, setting to 0 will utilize all cores	
Cancel	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish

Disabling checks for blanks and duplicates could result in files being overwritten in the export path. Or you may experience problems with loading into the target application. If these checks are not needed, a speed increase in export initialization is a potential benefit of disabling the settings in larger cases.

# To check for blank values

- 1. In the **Export Utility** dialog box, click the **Advanced** tab.
- 2. Set these options to determine whether CloudNine<sup>™</sup> LAW performs a check for blank values prior to exporting:
  - **On file naming scheme** When enabled, LAW checks the selected field(s) used as the file naming scheme on the **Options** tab for blank values and notifies you if any are found.
  - **On image tag(s)** When enabled, LAW checks the selected image tag field on the **Fields** tab for blank values and notifies you if any are found.

3. Configure other export options as needed, and then click **Finish**.

# To check for duplicate values

- 1. In the **Export Utility** dialog box, click the **Advanced** tab.
- 2. Set these options to determine whether LAW performs a check for duplicate values prior to exporting:
  - **On file naming scheme** When enabled, CloudNine<sup>™</sup> LAW checks the selected field(s) used as the file naming scheme on the **Options** tab for duplicate values and notifies you if any are found.
  - **On image tag(s)** When enabled, LAW checks the selected image tag field on the **Fields** tab for duplicate values and notifies you if any are found.
- 3. Configure other export options as needed, and then click **Finish**.

# To export native files by tag

On the Formats/Documents tab in the Export Utility dialog box, the Include Native Files check box allows you to globally include or exclude native files during the export. However, if you only want to export some, but not all, native files along with other case items, The Include native for tagged documents only check box on the Advanced tab allows you to only include native documents for documents tagged with a specific tag in the export.

# To export native files by tag:

1. Identify or create a Tag (Boolean) field that you will use to tag documents for native file export.

Add Field	×
Name:	ExportNativeFile
Table:	Document-Level -
Type:	Tag (Boolean) 🔹
	Indexed Unique
	Insert at top of list
	OK Cancel

For more information about creating tag fields, see <u>Manipulating Fields</u>.

2. Apply the tag to the documents for which you want native files to be included in the export.

For more information about applying tags, see <u>Tagging Records</u>.

3. In the **Export Utility** dialog box, click the **Advanced** tab.

Native File Filtering	
$\overline{\mathbb{V}}$ Include native for tagged documents only	
ExportNativeFile 🗸	
Enforce protection of redacted documents	

- 4. Select the Include native for tagged documents only check box, and then select the applicable tag.
- 5. Configure other export options as needed, and then click **Finish**.

#### To enforce protection of redacted documents

The Enforce protection of redacted documents check box determines whether the export will ensure redacted text is excluded from the export. By default, the Enforce protection of redacted documents check box is not selected, but once the setting is defined for an export, the last export setting for the check box will be retained for new exports.

Native File Filtering	
Include native for tagged documents only	
ExportNativeFile	
Enforce protection of redacted documents	

If the Enforce protection of redacted documents check box is selected, the following will occur during the export:

• The export identifies all documents with the HasRedaction fields set to Y.

When redactions are applied and saved to a document in CloudNine<sup>TM</sup> LAW, the HasRedaction field is set to Y (Yes) for the document. For more information about the HasRedaction field, see Field Descriptions - LAW.

- If native files are being exported, the export automatically prevents the native files for redacted documents from being exported.
- If images are being exported, redactions applied to a document will automatically be merged with the image to hide the redacted text when the document is exported.
- OCR text for documents with redactions will be excluded from the export if redactions were applied to a document after OCR was performed on the document.

OCR text for documents with redactions will be included in the export, except for any redacted text, which will automatically be excluded from the export, if redactions were applied to a document before OCR was performed on the document.

• Extracted text for documents with redactions are excluded from the export, regardless of the text priorities defined in the Text Priority section of the Text Options dialog box.

For example, if the text priority in Text Options dialog box is 1) Extracted Text, 2) Printed Text, 3) OCR Text, having the check box selected will force the export to use the OCR text for the document if the document OCR was performed on the document after applying the redaction. If redactions were applied after OCR was performed on the document, OCR text will also be excluded from the export.

For more information about defining text priorities, see <u>Formats/Documents Tab</u>.

When the Enforce protection of redacted documents check box is selected, and the export encounters documents with redacted text, the export generates a warning message in the export error log.

- If native files are being exported, the *Export of native file blocked due to redactions* message is displayed in the ErrDetails column.
- If OCR was performed after redactions were applied to a document, the OCR contains redacted content, export was prohibited message is displayed in the ErrDetails column.

# ■ <u>To exclude field content for tagged documents</u>

The Exclude field content for tagged documents check box determines whether content from specific fields is excluded from the export for documents tagged with a specific tag. Before content from a field can be excluded from an export, the field must be added to the Selected Fields list on the Fields tab in the Export Utility dialog box.

For example, you can select the Exclude field content for tagged documents check box if you want to exclude content from the Email\_Subject, From, or any other field that may contain privileged content, for all documents currently tagged with the Privileged tag from the export. By default the Exclude field content for tagged documents check box is not selected.

# To exclude field content from the export

1. In the main window, on the **Tools** menu, click **Export Utility**.

Clicking **Export Utility** opens the **Formats/Documents** tab in the **Export Utility** dialog box.

- 2. Click the **Fields** tab.
- 3. Make sure the fields you add to the **Selected Fields** list for the export include the fields you want to exclude content from during the export.
- 4. Click the **Advanced** tab.
- 5. Select the **Exclude field content for tagged documents** check box.

Conditional Field Exclusions	
Exclude field content for tagged documents	
Privileged 👻	
Select Fields	

- 6. In the tag list, select the tag that has been applied to the documents containing field content you want to exclude from the export.
- 7. Click the **Select Fields** button.

Clicking the **Select Fields** button opens the **Select Field** dialog box.

Select Field	
Select fields with protected cont	tent.
Available Fields:	
<pre> <begdoc#></begdoc#></pre>	
<pre>CondDoc#&gt;</pre>	
DateCreated	
EMail_Subject	
From	
✓ To	
	ОК
	Cancel
	Cancer
	'

- 8. Select the check box next to the fields from which you want to exclude content.
- 9. Click **OK**.

Clicking **OK** saves your field selections and closes the **Select Field** dialog box.

10. Configure other export options as needed, and then click **Finish**.

To Enable Turbo Export- Feature introduced in 6.13.052

The Turbo Export feature is an enhanced way of getting documents out of LAW vs the traditional export processing. Turbo Export takes advantage of multiple cores on the LAW workstation to achieve faster throughput when processing an export.

For example, you have a 4 core LAW workstation and want to export out 90000 documents. Using Turbo Export your result would look something like this:

<Volume Group > Folder <C01 – 001> Folder = A Load file and corresponding documents 1-30,000 <C02 – 001> Folder = A Load file and corresponding documents 30,001-60,000 <C03 – 001> Folder = A Load file and corresponding documents 60,001-90,000 Only 3 cores are used by Turbo Export because the remaining core is needed to run the OS and LAW Application.

# When enabling this option, there are a few things to consider:

- To take advantage of this feature, the LAW workstation must have at least 3 cores or more.
- Only one Admin license is needed even though it is using multiple cores as workers
- This export has a different output vs the traditional export:

a) The volume folder acts as a volume group folder

b) Within the volume group folder are folders prefixed with 'C01-', 'C02-', etc. These folders are where exported documents and load files will be placed. One folder is created for each core used when exporting.

- Across the folders, we will not break apart families or documents.
- The process is evenly distributed across all cores.
- If the export needs to be partitioned out, it too is supported like our traditional export.

# To enable Turbo Export:

1. In the main window, on the **Tools** menu, click **Export Utility**.

Clicking **Export Utility** opens the **Formats/Documents** tab in the **Export Utility** dialog box.

- 2. Click the **Advanced** tab.
- 3. Select the Enable Turbo Export check box.

Turbo Export
Enable Turbo Export
No. cores to be used for processing 0
3 cores available, setting to 0 will utilize all cores

- 4. LAW will collect the number of cores on your machine.
- 5. Use **No. cores to be used for processing** setting to manage hardware resources when using multiple programs at the same time. The **No. cores to be used for processing** field defaults to 0. When it is set to 0, all available cores will process data for this case during the export process.
- ✓ To maximize your Turbo Export, it is recommended to start the export on a machine with 3+ cores, preferably the machine with the most cores available for use.

# **Export Profiles**

Export profiles are used to save settings used in a particular export. Export profiles can save time and help reduce errors when specifying index fields to use and other settings.

Note the following basic facts about export profiles:

- You work with export profiles by using the Export Utility.
- When you save an export profile the file gets the PFL extension.
- You select the folder location where the file is saved.
- No profile is loaded by default when the Export Utility is launched in a new case.

The profile can be created and saved to a file at any time when working in the Export Utility; otherwise, you are prompted to save the settings after after you start the export or even when you open the Export Utility and change a setting.

LAW Pr	eDiscovery 🛛 🔀
2	The selected options have changed, do you wish to save the new settings?
	Yes No Cancel

# **To create an export profile**

- 1. On the **Tools** menu click **Export Utility**.
  - Or click the 📴 button from the main or embedded grid toolbar.

The **Export Utility** dialog box appears.

📑 Export Utility	×
<u>File</u> <u>H</u> elp	
Formats / Documents Fields Options Advanced	
File Types	Documents
Selected Types: All Records	All Documents
✓ Include Images	Search Results
✓ Include Full Text Options	O Select Documents Select
✓ Include Native Files	- Select Documents
Include records without files	Regenerate Load File(s)     Select
	Total: 19,753 docs
- Formats Available Formats	Selected Formats
Concordance Desktop Concordance Direct (DCB) Delimited Text Doculex Viewer 4.x Doculex Viewer 5/6 DocuMatrix 1.5 EDRM XML 2.0	lect > emove emove All figure
◯ Single-Page ◯ Multi-Page	Single-Page OMulti-Page
<u>C</u> ancel	< <u>B</u> ack <u>N</u> ext > Einish

- 2. Click **File** from the menu bar and then click **Save As**.
- 3. The **Save As** dialog box appears.
- 4. Choose a location and enter a name for the profile.
  - Create an 'ExportProfiles' folder in a directory (i.e. LAW50 folder)

Or

- Keep profiles with the associated LAW case.
- 5. Click Save.

The profile name will appear in the title bar of the **Export Utility** dialog as shown.



The profile can also be created after clicking Finish from the Options tab of the Export Utility. A prompt will appear prior to the export process initializing, asking if you want to save the current settings. If Yes is chosen, the user can enter a file name for the profile and a location in which to save the file. If a profile is already applied as in the above example, clicking Yes will force the settings to be saved to the currently active profile.

#### To open a profile

Saved profiles can be applied to additional exports for any CloudNine<sup>™</sup> LAW case provided they match, or closely match, the settings needed for a particular export. If the profile does not meet the requirements, it may be edited within the Export Utility by simply opening the profile, changing the desired settings, and then saving the changes.

## To open and apply an existing profile

1. In the main window, on the **Tools** menu, click **Export Utility**.

Export Utility	×
<u>F</u> ile <u>H</u> elp	
Formats / Documents       Fields       Options       Advanced         File Types         Selected Types:       All Records         Include Images         Include Full Text       Options         Include Full Text         Include Native Files         Include records without files	Documents         In Documents         Search Results         Select Documents         Regenerate Load File(s)         Select         Total:         19,753 docs
Formats Available Formats	Selected Formats
BlueTrace CaseLogistix CaseMap Concordance Desktop Concordance Direct (DCB) Delimited Text Doculex Viewer 5/6 Doculwatrix 1.5 EDRM XML 1.0 EDRM XML 1.0 EDRM XML 2.0 iCONECT inData's TrialDirector Inmagic's DB/TextWorks Introspect eCM Single-Page	Select > < Remove << Remove All Configure O Single-Page O Multi-Page
Cancel	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish

The **Export Utility** opens.

2. On the File menu click Open.

The **Open** dialog box appears.

3. Browse to a PLF file and then click **Open**.

All settings saved to this profile will be applied to the current export session.

When a profile is used and an export is executed, that same profile will be automatically selected when the Export Utility is launched in that LAW case. Profiles may also be opened and applied using the "recent profiles" menu. The last four profiles opened in a case will be listed in the File menu within the Export Utility. Simply click the desired profile to apply it.

# **Exporting E-Mail Threads**

You can pass email threads from LAW to review application by configuring your review application to handle the ThreadID field.

Electronic discovery-enabled cases created using LAW 6.0 and later, contain the ThreadID field. This field tracks e-mail threads from Outlook stores and from loose MSG files. The new field is called ThreadID.

Note the following about the ThreadID field:

- It is populated with the leftmost 22 characters of ConversationIndex field.
- Attachments to e-mails receiving a value for the ThreadID are populated with the ThreadID of the corresponding parent e-mail.
- Opening an existing ED-enabled case will add the ThreadID field to the case.
- ThreadID is not visible by default on the main form or on grids. The ThreadID field is not indexed.

# Customizations

The following sections describe some customizations that can be made for CloudNine  $\ensuremath{^{\text{\tiny TM}}}$  LAW.

# **Disabling Image Preview**

The Image Preview can be disabled per workstation for image based files that are imported through ED Loader or Native Load files, and have not been tiffed.

■ How to disable the Image Preview

- 1. Close out of LAW on the workstation that you want to enable the feature.
- 2. Go to C:\Program Files (x86)\Law50.
- 3. Open the LAW50.ini file to edit.
- 4. Look for the [Preferences] section in the LAW50.ini file.
- 5. Insert **DisableImagePreview=1** under the [Preferences] section
- 6. If [Preferences] is not in the LAW50.ini file, then add

# [Preferences] DisableImagePreview=1

- 7. Then Save the LAW50.ini file.
- If you aren't able to save the LAW50.ini file then you don't have write/modify rights to C:\Program Files (x86)\Law50\law50.ini. Another LAW50.ini file may have been created in C:/Users/(user login)/AppData/Local/Virtual Store/Windows/LAW50.ini.

8. Open LAW and your databases. Any image files that were previously imported but not tiffed will no longer be displayed in the Image Preview window.

If the image preview window is disabled, then the images will only be viewable when the files are tiffed.

# **CloudNine™ LAW**

User Guide

**Reference Information** 

Chapter



# **Reference Information**

# License Matrix

For more information a icenses, see License Ty		each o	of the	e Clou	dNine	™ LA	W, Clo	oudNine	e™ Exp	lore, a	and TSI	Scar	ı	
	Adm in Imp ort Exp ort	CD Pub Full Text	Edit (QC )	ED: E- Print	ED: Load er	ED: TIF F	Endo rse	Full Text Indexi ng	Near- Dupli cate & Email Threa d Analy sis	OCR f	OCR Exper Open RTK	OC R Exp er PD F	Pri nt	Sca n
FILE														
OPEN CASE	х	х	Х	х	х	х	х	х		Х	Х	х	х	Х
NEW CASE	х													
SAVE			Х											х
SAVE AS			Х											х
IMPORT	х													
DELIMITED TEXT	х													
LAW CASE	х													
LOAD FILE	х													
TAG LIST	х													
RAW IMAGES	х													
ELECTRONIC DISCOVERY					х									
PRINT	Х	Х	х	Х	Х	Х	Х	х		Х	Х	х	Х	х

	PRINT SETUP	x	х	Х	Х	х	X	Х	Х	x	Х	Х	Х	Х
	SEND	х	Х	Х	Х	х	х	Х	х	x	Х	х	Х	х
	IMAGE	х	Х	Х	Х	х	Х	Х	Х	х	Х	Х	Х	х
	IMAGE + OCR	х	Х	х	Х	Х	Х	Х	Х	х	Х	Х	Х	х
	OCR ONLY	х	Х	x	Х	Х	Х	Х	Х	х	Х	Х	Х	х
	ADMINISTRATION													
	APPLY CASE TEMPLATE	х												
	CASE SUMMARY	х												
	COMPACT DATABASE	х												
	REORGANIZE DOCUMENTS	х												
	SAVE CASE TEMPLATE	х												
	SCAN FOR ERRORS	х												
	VALIDATE RANGES	х												
SC	AN													
	SELECT SCANNER													Х
	SCANNER SETTINGS													Х
	SCAN OPTIONS													х
	NEW DOCUMENT													Х
	NEW ATTACHMENT													Х
	APPEND													Х
ED	IT													
	INSERT			Х										Х
	NEW PAGE(S)			х										х

	EXISTING PAGE(S)			x										Х
	E-DOCUMENT(S) *requires both Edit and ED Loader			x		x								
	SCANNED DOCUMENT			x										х
D	ELETE			Х										Х
RI	EPLACE			Х										х
A	JTO NUMBER			Х										х
A	TTACHMENTS			Х										х
	ERGE OCUMENTS			x										x
	OVE OCUMENTS			x										х
RI	ESET OCR FLAGS									х	Х	X		
	ESET FULL TEXT AGS								х					
SF	PLIT DOCUMENTS			Х										Х
*r	EW PAGE INFO equires both Edit nd Admin	X*		X*										
PF	ROPERTIES	х		Х						х	Х	X		х
FOLD	DER													
N	EW	х		Х										х
0	PEN	Х	Х	Х	Х	Х	х	Х	Х	х	Х	X	Х	х
A	JTO-CREATE	Х		Х										Х
	JTO-CREATE N DLDERS	х		x										Х
С	OLLAPSE	Х	х	Х	х	х	х	Х	х	х	Х	X	Х	Х
ΕX	(PAND	Х	Х	x	Х	Х	x	Х	х	х	х	x	Х	Х

						1			1			1		
DELETE	Х		х											Х
EXTRACT AS SUBSET	х		x											x
GRID VIEW	Х	Х	х	х	х	Х	Х	Х		х	х	x	Х	х
GRID VIEW (RECURSE)	х	х	x	х	x	x	х	х		x	х	x	x	x
SUMMARIZE IMAGES	х		x											x
RENAME	х		Х											х
MOVE	Х		Х											х
PROPERTIES	Х	х	Х	х	х	Х	Х	х		х	х	Х	Х	х
INDEX														
DEFAULT FIELD	Х		х											х
INCREMENT MODE	Х		х											х
MODIFY FIELDS	Х													
EDIT PAGE ID	Х		Х											х
FIND PAGE ID	Х		Х											х
VIEW														
ZOOM IN	Х	Х	Х	х	х	х	Х	х		x	х	X	Х	х
ZOOM OUT	Х	Х	Х	х	х	х	Х	х		x	х	X	Х	х
ZOOM LOCK	Х	Х	Х	Х	Х	х	Х	Х		х	Х	X	Х	Х
BEST FIT	Х	Х	Х	Х	Х	х	Х	Х		х	Х	X	Х	Х
FIT TO WIDTH	Х	Х	Х	Х	Х	х	Х	Х		х	Х	X	Х	Х
ONE PAGE	Х	Х	Х	х	х	х	Х	Х		x	Х	Х	Х	Х
THUMBNAILS	Х	Х	Х	х	х	х	Х	Х		x	Х	Х	Х	Х
PAGE AND THUMBNAILS	х	Х	x	х	Х	x	х	х		x	х	x	Х	х
INVERT	Х	Х	Х	х	х	х	Х	Х		x	Х	Х	Х	Х
PAN WINDOW	Х	Х	х	Х	Х	х	Х	х		х	х	x	Х	х

2	CALE TO GRAY	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	X	Х	)
٩G	E													
FI	RST PAGE	х	Х	Х	Х	Х	Х	Х	Х	х	Х	X	Х	
P	REVIOUS PAGE	х	Х	Х	Х	Х	Х	Х	Х	х	Х	X	Х	2
N	EXT PAGE	х	Х	Х	Х	Х	Х	Х	Х	х	Х	X	Х	2
L	AST PAGE	х	Х	Х	Х	Х	Х	Х	Х	х	Х	X	Х	
G	OTO PAGE	х	Х	Х	Х	Х	Х	Х	Х	х	Х	x	Х	
Fl	_ag for ocr									х	Х	Х		
S	HOW OCR FLAGS									х	Х	Х		
D	ESKEW			Х										
E	NHANCE IMAGE			Х										
R	OTATE PAGES	х	Х	Х	Х	Х	Х	Х	Х	х	Х	X	Х	
Ρ	ROPERTIES	х	Х	Х	Х	Х	Х	Х	Х	х	Х	Х	Х	
C	DLS													
B	ATCH PROCESS	х	Х	Х	Х	Х	Х	Х	Х	х	Х	x	Х	
	BATES	х		х				х						
	NUMBERING													
	NUMBERING			Х										
				X				X						
	IMAGE CLEANUP ENDORSE			x				x x					x	
	IMAGE CLEANUP ENDORSE IMAGE			X	X								x	
	IMAGE CLEANUP ENDORSE IMAGE PRINT (IMAGES) E-PRINT			x	x							x	x	
	IMAGE CLEANUP ENDORSE IMAGE PRINT (IMAGES) E-PRINT (NATIVES) SCAN FOR SUSPECT	x									X X X	x		
	IMAGE CLEANUP ENDORSE IMAGE PRINT (IMAGES) E-PRINT (NATIVES) SCAN FOR SUSPECT FOOTERS		X		X			X					x	

UPDATE PAGE DATA	х	х	x	х	х	x	х	х		x	Х	x	Х	>
DISTRIBUTED BATCH PROCESSING	x	Х	x	x	х	x	x	x		x	x	x	Х	>
EXPORT UTILITY	х													
DEDUPLICATION UTILITY	x				х									
DUPLICATE VIEWER	х	Х	х	х	Х	Х	Х	Х		х	Х	Х	Х	
NEAR-DUPLICATE & EMAIL THREAD ANALYSIS									х					
ANNOTATIONS			х											
BARCODES			х											
LAUNCH VIEWER			х											
OCR										х	Х	Х		
FULL TEXT INDEX								Х						
RUN COMMAND	х	Х	x	Х	х	Х	Х	Х		х	Х	Х	Х	
DISPLAY ALL RECORDS	x	Х	x	х	х	x	х	х		x	х	x	Х	
SEARCH RECORDS	х	Х	х	х	Х	Х	Х	Х		х	Х	Х	Х	
OPTIONS	х	Х	x	Х	х	Х	Х	Х		х	Х	Х	Х	
IELP														
HELP TOPICS	х	Х	Х	Х	х	Х	Х	Х		х	Х	Х	Х	
USER GUIDE	х	Х	Х	Х	х	Х	Х	Х		х	Х	Х	Х	
BUG REPORT	х	Х	Х	Х	х	Х	Х	Х		х	Х	Х	Х	
CHECK FOR UPDATE	x	Х	x	х	х	x	х	x		x	х	x	х	
ABOUT LAW	х	Х	x	Х	Х	x	Х	х		х	Х	x	Х	

#### **Keyboard Shortcuts**

If the keyboard shortcuts are not functioning, and a grid display is currently active, please ensure that Review Mode is disabled in the grid. See <u>Tagging Records</u> for more information.

#### Function keys

Кеу	Function			
F1	Help			
F2	Edit Search Entry			
F3	Scan New Batch			
F4	Deskew Document			
F5	Append Document			
F6	Replace Pages			
F7	Page Size - Letter (8.5 x 11")			
F8	Page Size - Legal (8.5 x 14")			
F9	Page Size - Double Letter (11 x 17")			
F10	Scan Mode - Simplex			
F11	Scan Mode - Duplex **			
F12	Scan Mode - Flatbed **			

 $\ast\ast$  Availability of these modes depends on whether the scanner support for these capabilities.

#### Control keys

Key Combination	Action
ALT+UP ARROW	Increase scan brightness (32pts)
ALT+DOWN ARROW	Decrease scan brightness (32pts)
CTRL+A	Select All Pages (if thumbnails display has focus)
CTRL+A	Select All Documents (if document list has focus)
CTRL+A	Show All Fields (if Search Results window has focus)
CTRL+X	Hide All Fields (if Search Results window has focus)
CTRL+E	Edit Page ID

Key Combination	Action		
CTRL+F	Find Page ID		
CTRL+G	Go To Page		
CTRL+L	Rotate Left (current or selected pages)		
CTRL+M	Merge Documents		
CTRL+O	OCR Document		
CTRL+P	Print		
CTRL+R	Rotate Right (current or selected pages)		
CTRL+S	Save Image (saves image with current page orientation)		
CTRL+U	Split Document		
CTRL+Z	Zoom Lock		
CTRL+1	Black and White Scanning		
CTRL+2	8-bit Grayscale Scanning		
CTRL+3	24-bit Color Scanning		
CTRL+F3	Scan New Attachment		
CTRL+F4	Enhance Image menu		
CTRL+F6	Replace Document		
CTRL+F12	Merge Annotations		
CTRL+INSERT	Insert New Pages (from scanner)		
CTRL+PAGE DOWN	Zoom In		
CTRL+PAGE UP	Zoom Out		
CTRL+LEFT ARROW	Pan Left (moves image, if zoomed)		
CTRL+RIGHT ARROW	Pan Right ARROW (moves image, if zoomed)		
CTRL+UP ARROW	Pan Up (moves image, if zoomed)		
CTRL+DOWN ARROW	Pan Down (moves image, if zoomed)		
ESC	Clear current region (if main image has focus)		
ESC	Clear selected pages (if thumbnails display has focus)		
SHIFT+INSERT	Attach to Previous		

Key Combination	Action
SHIFT+BACKSPACE	Detach All
SHIFT+DELETE	Delete Pages

#### Document list keys

The focus must be on the document list to use these shortcuts.

Кеу	Action			
LEFT	Previous page			
RIGHT	Next page			
UP	Previous document			
DOWN	Next document			
HOME	First page			
END	Last page			
DELETE	Delete document			
SPACEBAR	Toggle page selection for current page			

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