



AccessData[®]

FTK 4/5

**Regular expressions
Case reporting**

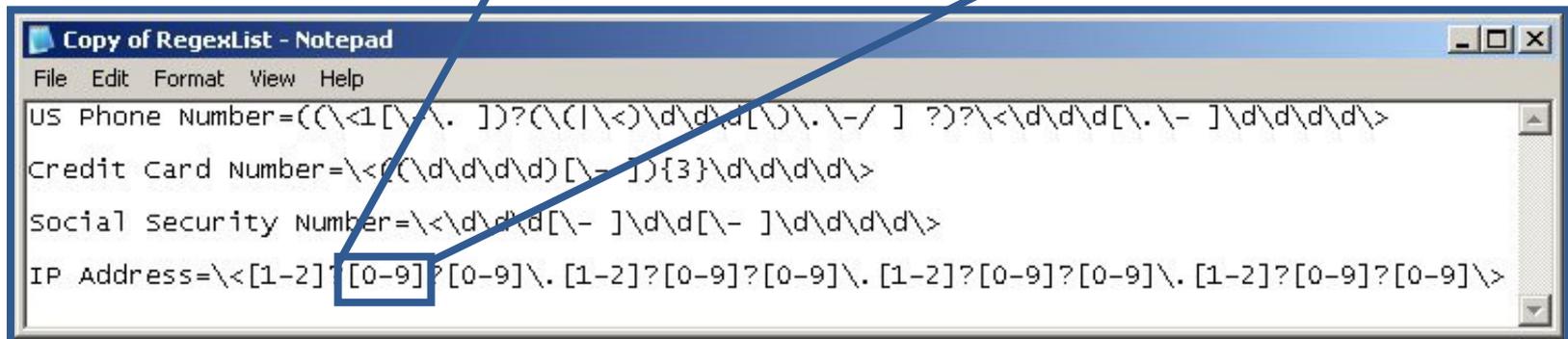
Regular expression sets

Sets define a range of characters

A set is delimited by brackets '[' and ']'

FTK matches any single character that is a member of the given set.

[0-9]

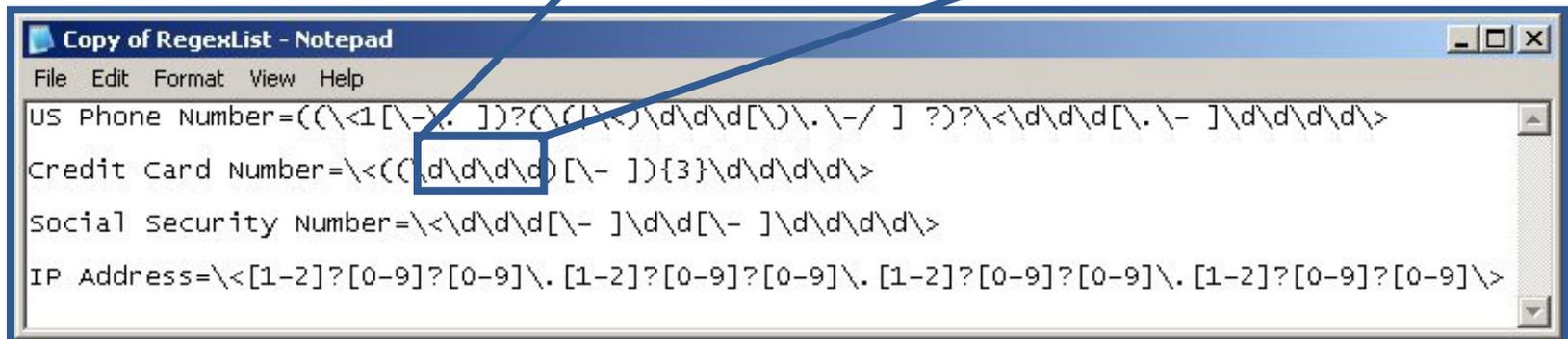


```
Copy of RegexList - Notepad
File Edit Format View Help
US Phone Number=(\<1[\.\ ])?(\(|\<)\d\d\d(\)|\.\ |-/ ] ?)?\<\d\d\d[\.\ |-/ ]\d\d\d\d\>
Credit Card Number=\<(\d\d\d\d)[\ - ]{3}\d\d\d\d\>
Social Security Number=\<\d\d\d[\ - ]\d\d[\ - ]\d\d\d\d\>
IP Address=\<[1-2]?[0-9]?[0-9]\.\ [1-2]?[0-9]?[0-9]\.\ [1-2]?[0-9]?[0-9]\.\ [1-2]?[0-9]?[0-9]\>
```

Character Classes

- .** matches anything !
- \w** matches words (string)
- \d** matches decimal digits
- \-** matches the hyphen character
- \x** represents a HEX character
- \s** and **\t** matches space and tab characters
- \l** or **\u** matches lowercase or uppercase

`\d\d\d\d`



```
Copy of RegexList - Notepad
File Edit Format View Help
US Phone Number=(\<1[\-\. ])?(\<1[\-\. ])?\<\d\d\d[\.\- ]\d\d\d\d\>
Credit Card Number=\<(\d\d\d\d)[\- ]{3}\d\d\d\d\>
Social security Number=\<\d\d\d[\- ]\d\d[\- ]\d\d\d\d\>
IP Address=\<[1-2]?[0-9]?[0-9]\.[1-2]?[0-9]?[0-9]\.[1-2]?[0-9]?[0-9]\.[1-2]?[0-9]?[0-9]\>
```

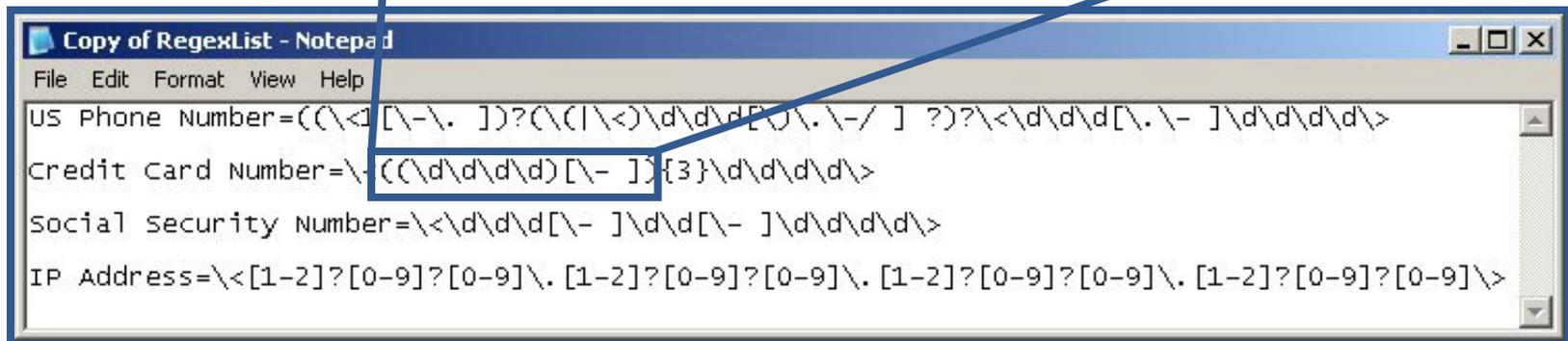
Function Groups

Group expressions together example:

The pattern of four digits `\d\d\d\d` and a pattern of a '-' or '.' can be combined within '(' and ')'

The square brackets (`[]`) indicate that the next character in the sequence must be one of the characters listed between the brackets or escaped characters

```
((\d\d\d\d)[\.-])
```



```
Copy of RegexList - Notepad
File Edit Format View Help
US Phone Number=(\\<[\\-\\. ])?(\\(|\\<)\\d\\d\\d\\d[\\(|\\<[\\-\\. ]?|\\<\\d\\d\\d[\\-\\. ]\\d\\d\\d\\d\\>
Credit Card Number=\\((\\d\\d\\d\\d)[\\.-]{3}\\d\\d\\d\\d\\>
Social Security Number=\\<\\d\\d\\d[\\.-]\\d\\d[\\.-]\\d\\d\\d\\d\\>
IP Address=\\<[1-2]?[0-9]?[0-9]\\.[1-2]?[0-9]?[0-9]\\.[1-2]?[0-9]?[0-9]\\.[1-2]?[0-9]?[0-9]\\>
```

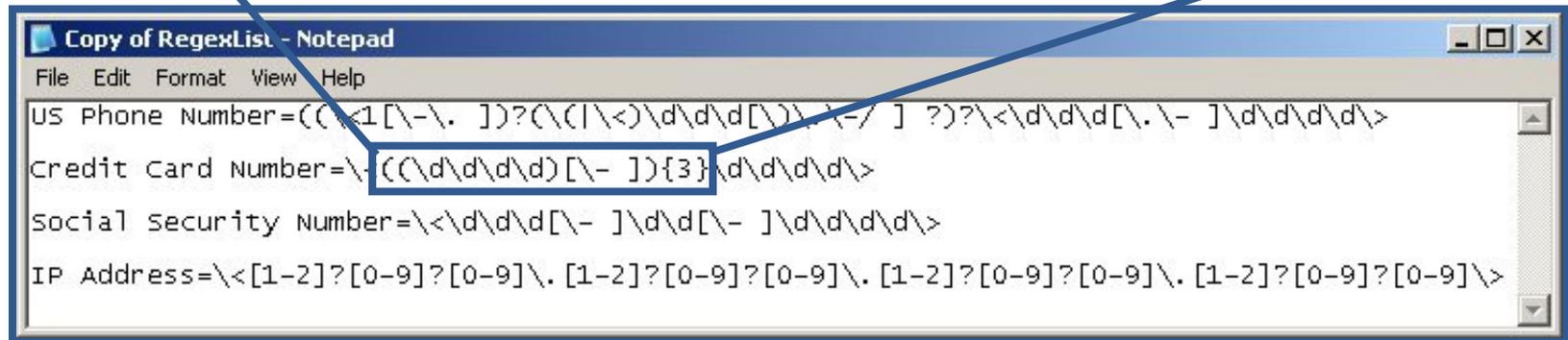
Curley Things

Match an expression or set of expressions an arbitrary number of times.

Example: (4 digits followed by a '-' or '')

This (expression) must occur {three times}

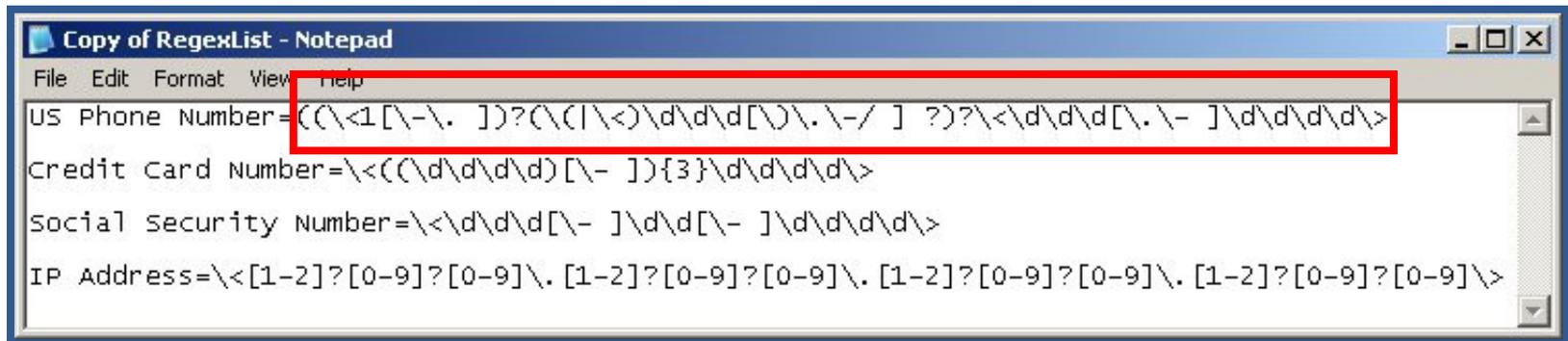
`((\d\d\d\d)[\ -]){3}`



Sample Expressions

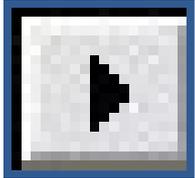
- \<** Start after a non-word character
- \>** End after a non-word character
- ?** Match 1 or 0 preceding instances
- |** This | That

Let's decipher US Phone Numbers



```
Copy of RegexList - Notepad
File Edit Format View Help
US Phone Number=(\<1[\-\. ])?(\(|\<)\d\d\d[\)\. \- / ] ?)?\<\d\d\d[\.\- ]\d\d\d\d\>
Credit Card Number=\<((\d\d\d\d)[\- ]){3}\d\d\d\d\>
Social Security Number=\<\d\d\d[\- ]\d\d[\- ]\d\d\d\d\>
IP Address=\<[1-2]?[0-9]?[0-9]\.[1-2]?[0-9]?[0-9]\.[1-2]?[0-9]?[0-9]\.[1-2]?[0-9]?[0-9]\>
```

Editing Expressions



**From the
FTK Live
Search Tab**



UK Phone Number
US Phone Number
Credit Card Number
Social Security Number
IP Address
Am Ex 1
Am Ex 2
Am Ex 3
Am Ex 4
JC Penney 1
JC Penney 2
INFO2

Edit expressions...



```
RegexList - Notepad
File Edit Format View Help
UK Phone Number=
US Phone Number=
Credit Card Number=
Social Security Number=
IP Address=
Am Ex 1=
Am Ex 2=
Am Ex 3=
Am Ex 4=
JC Penney 1=
JC Penney 2=
INFO2=
```

```
. - any character
\t - tab
\s - whitespace character
\d - decimal digit - same as [0-9]
\u - upper case character - same as [A-Z]
\l - lower case character - same as [a-z]
\w - word character - same as [a-zA-Z0-9_]

\n - newline character
\r - return character

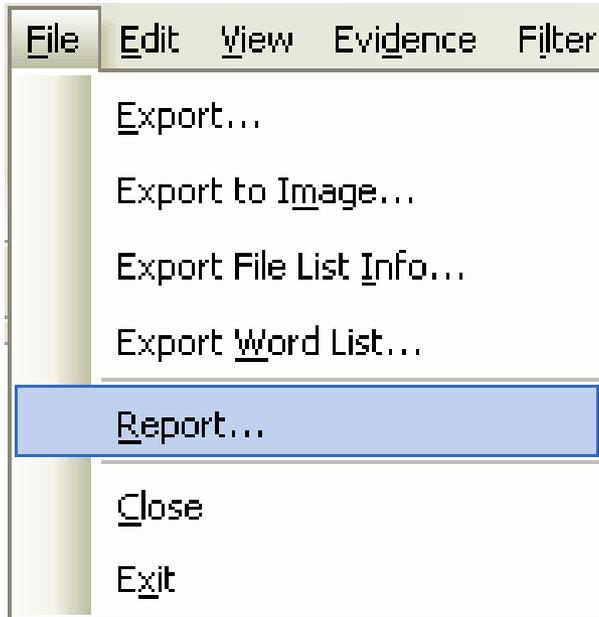
\b - at word boundary
\B - not at word boundary

< - at start of word
> - at end of word
^ - at start of line
$ - at end of line
\` - at start of file
\' - at end of file

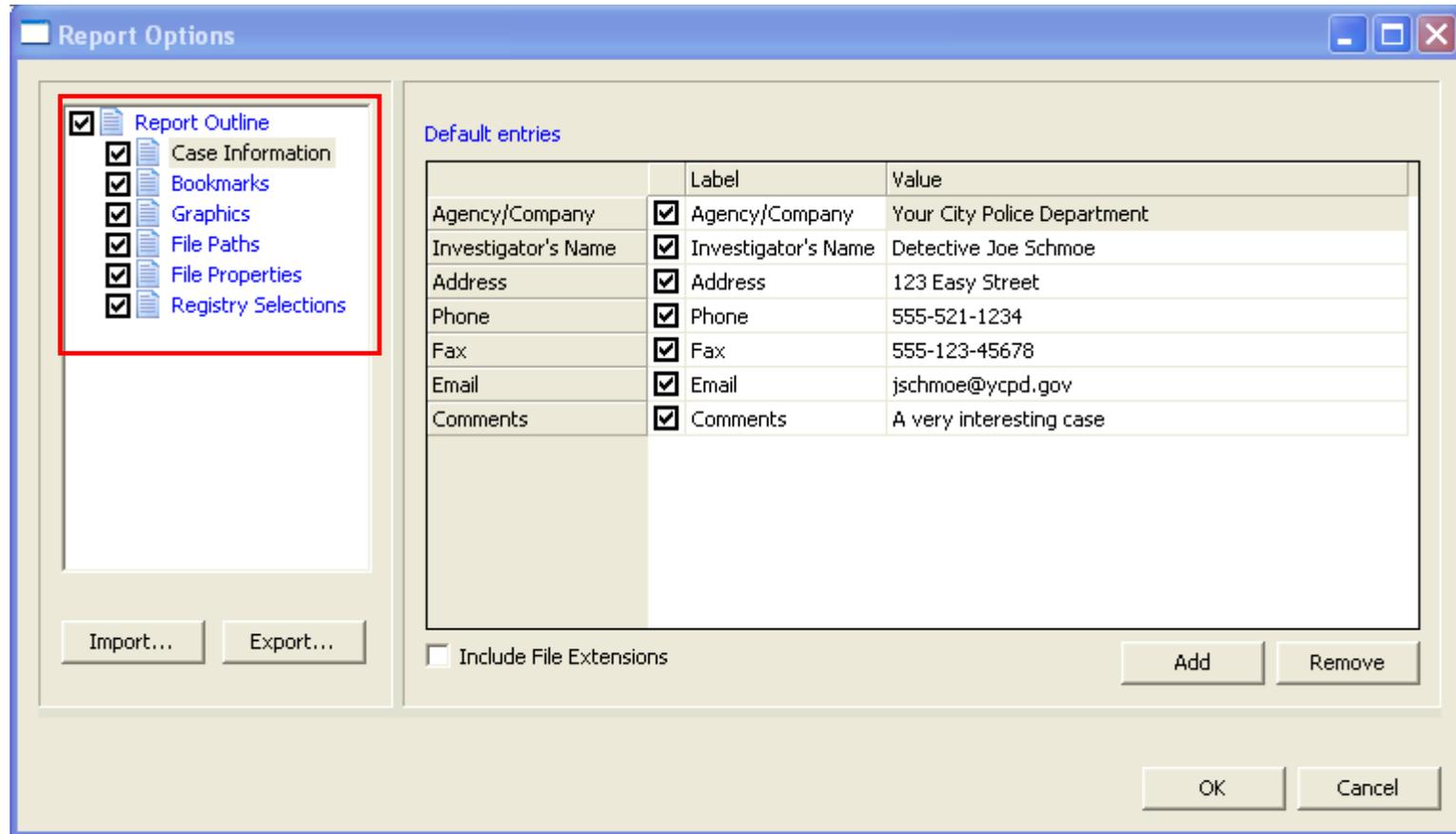
? - match previous 0 or 1 times
* - match previous 0 or more times
+ - match previous 1 or more times
{n} - match previous n times
{n,} - match previous n or more times
{m,n} - match previous m to n times

[:alpha:] - alpha character
[:alnum:] - alpha-numeric character
[:blank:] - whitespace except line separator
```

Generating a Report

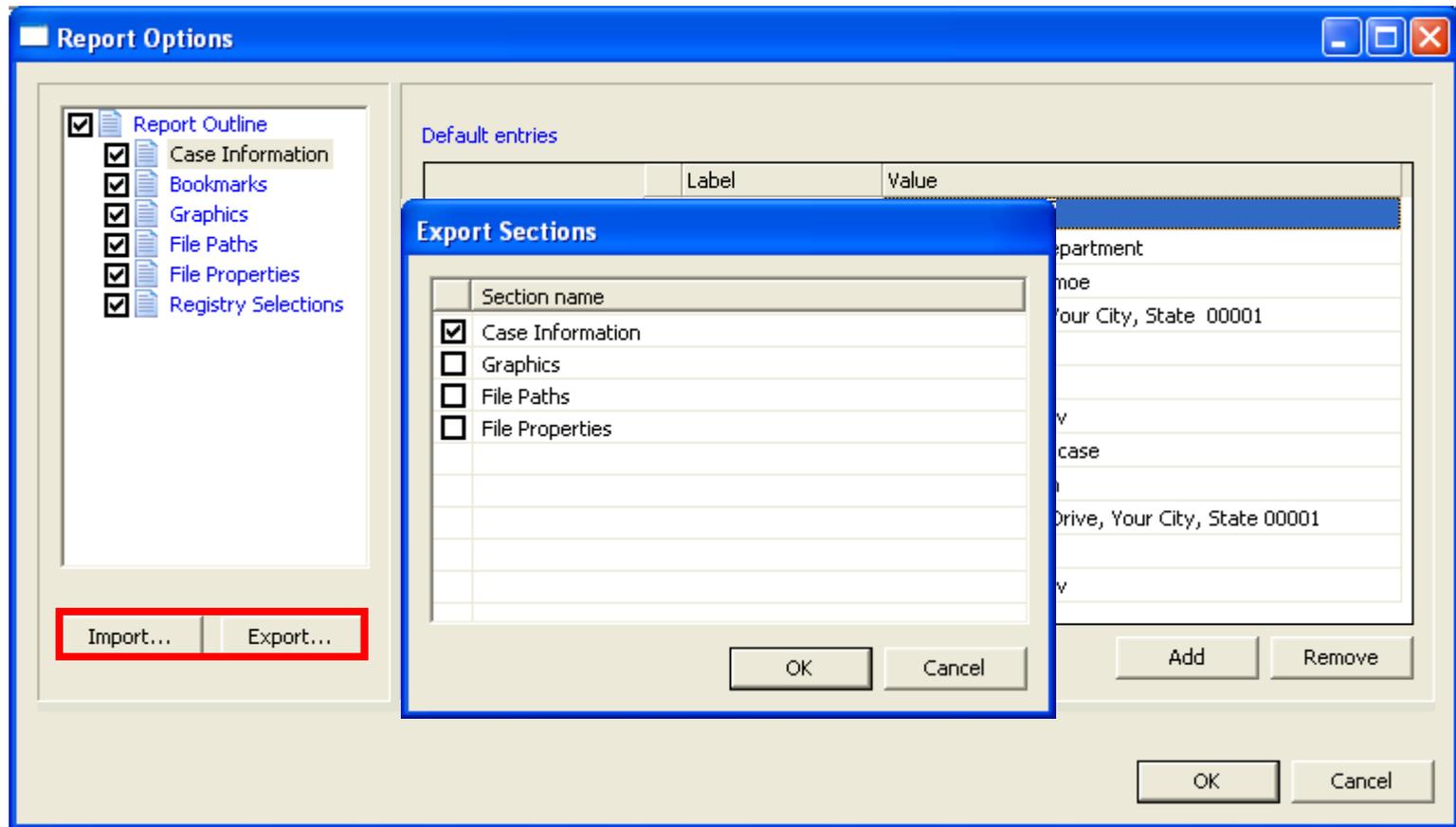


Report Sections



Each section is optional .
Checkmark the sections you want to add to the report.

Case Information

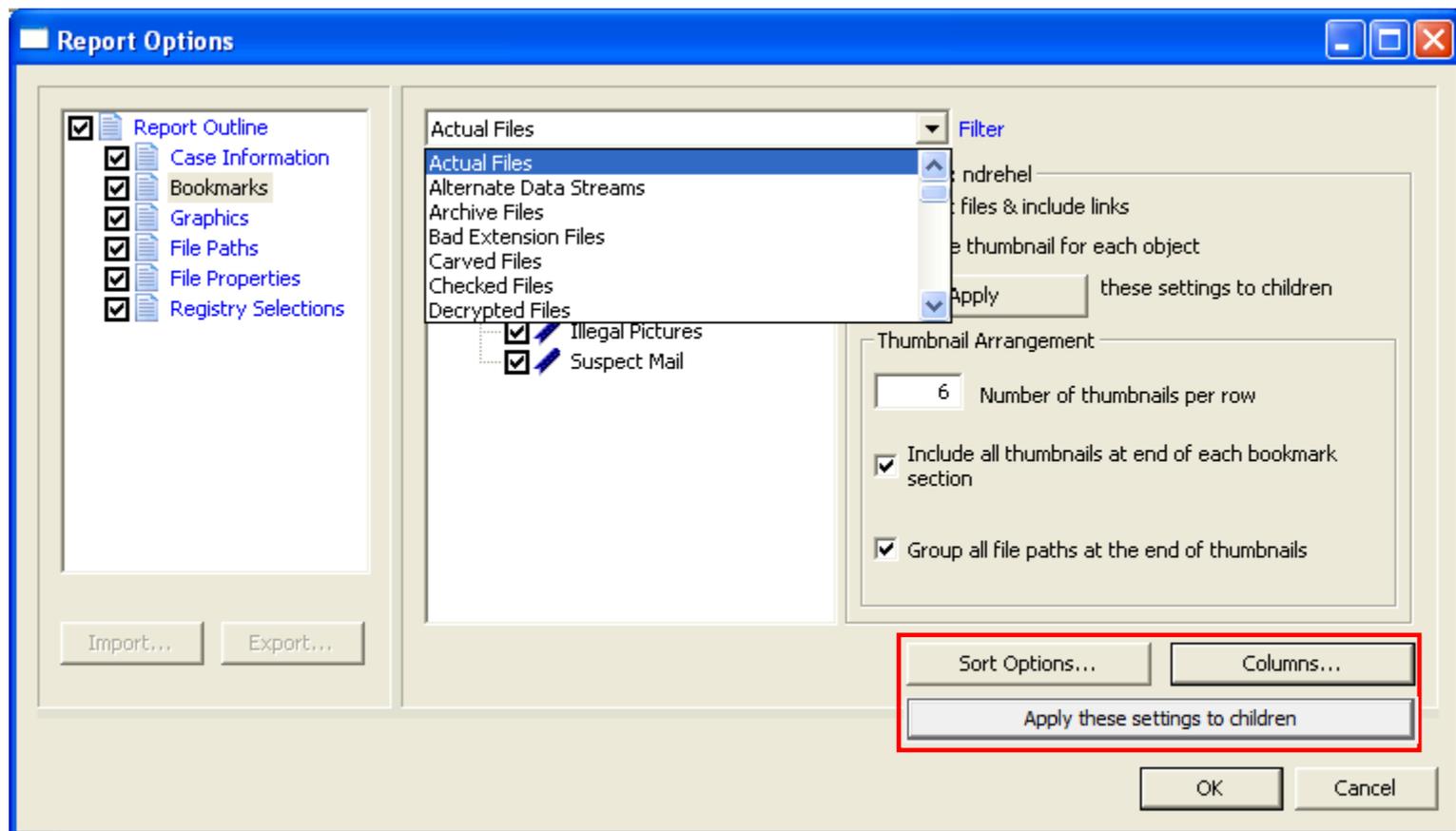


Change and add labels as you need
Move field positions by moving entry column
Export and import report settings

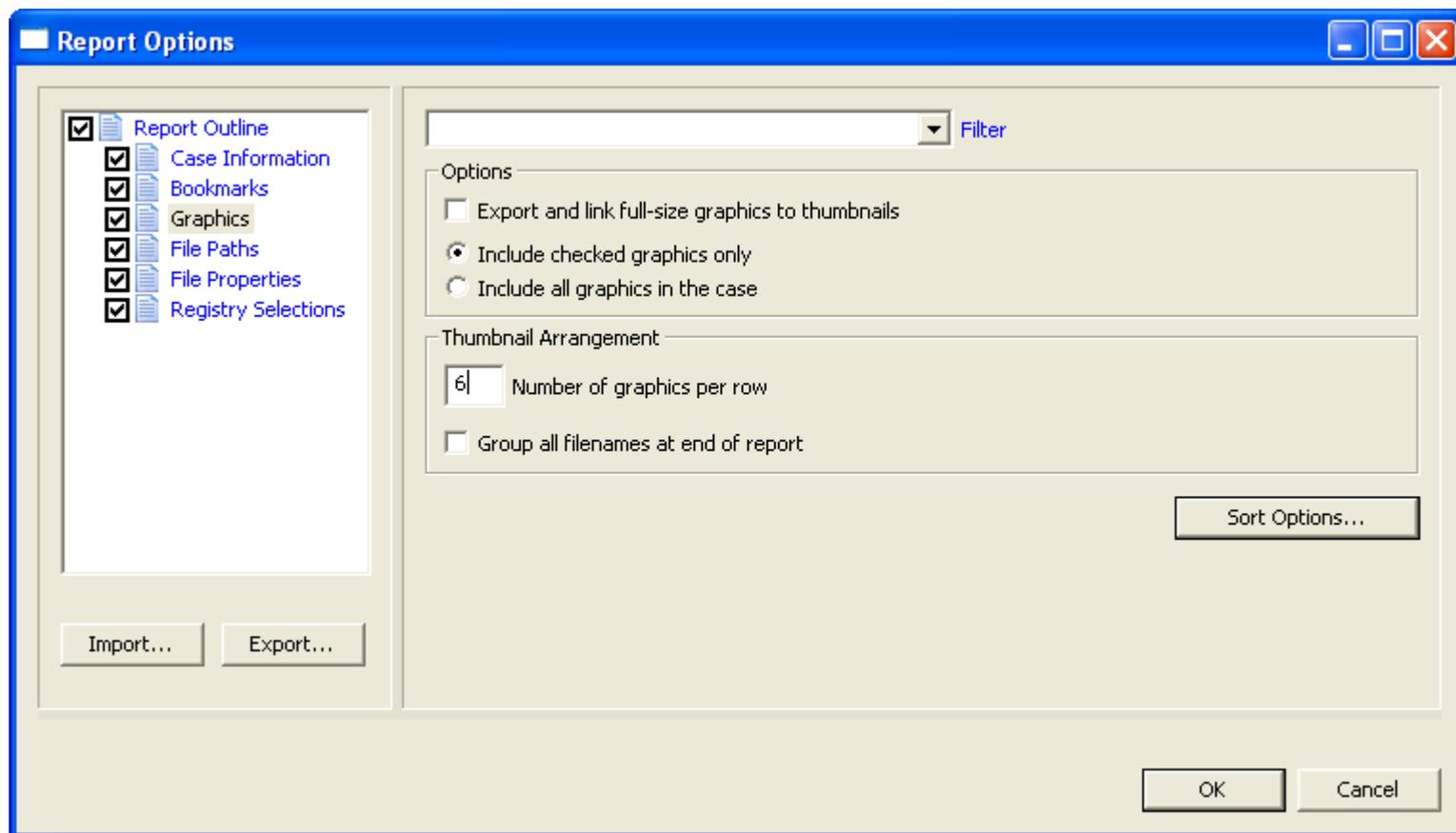
Bookmarks – Export & Display

Select one of the filters from the list. The empty line at the top of the list lets you apply no filter to the bookmarks.

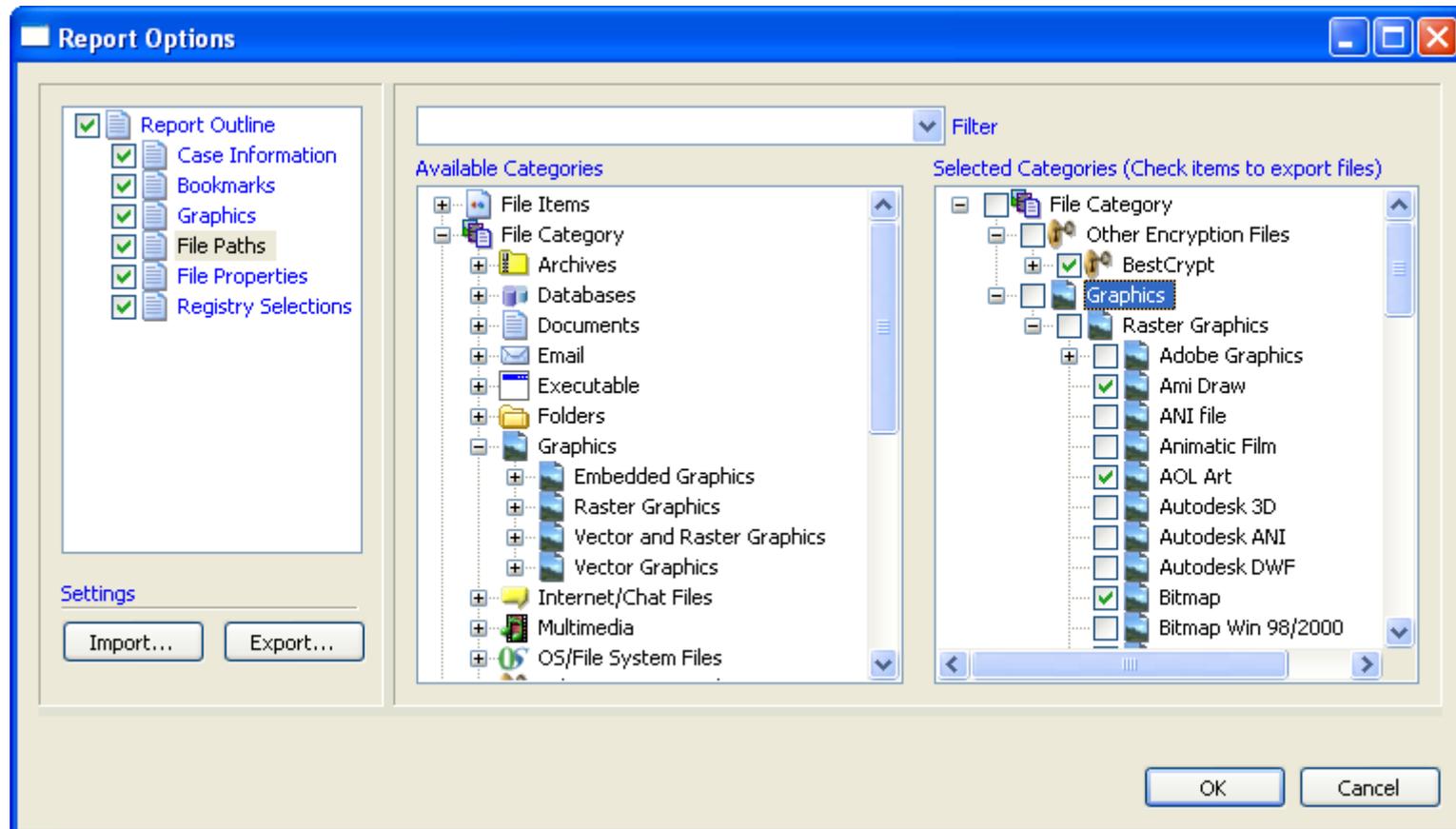
Also specify if you want to apply all settings for this bookmark to child files.



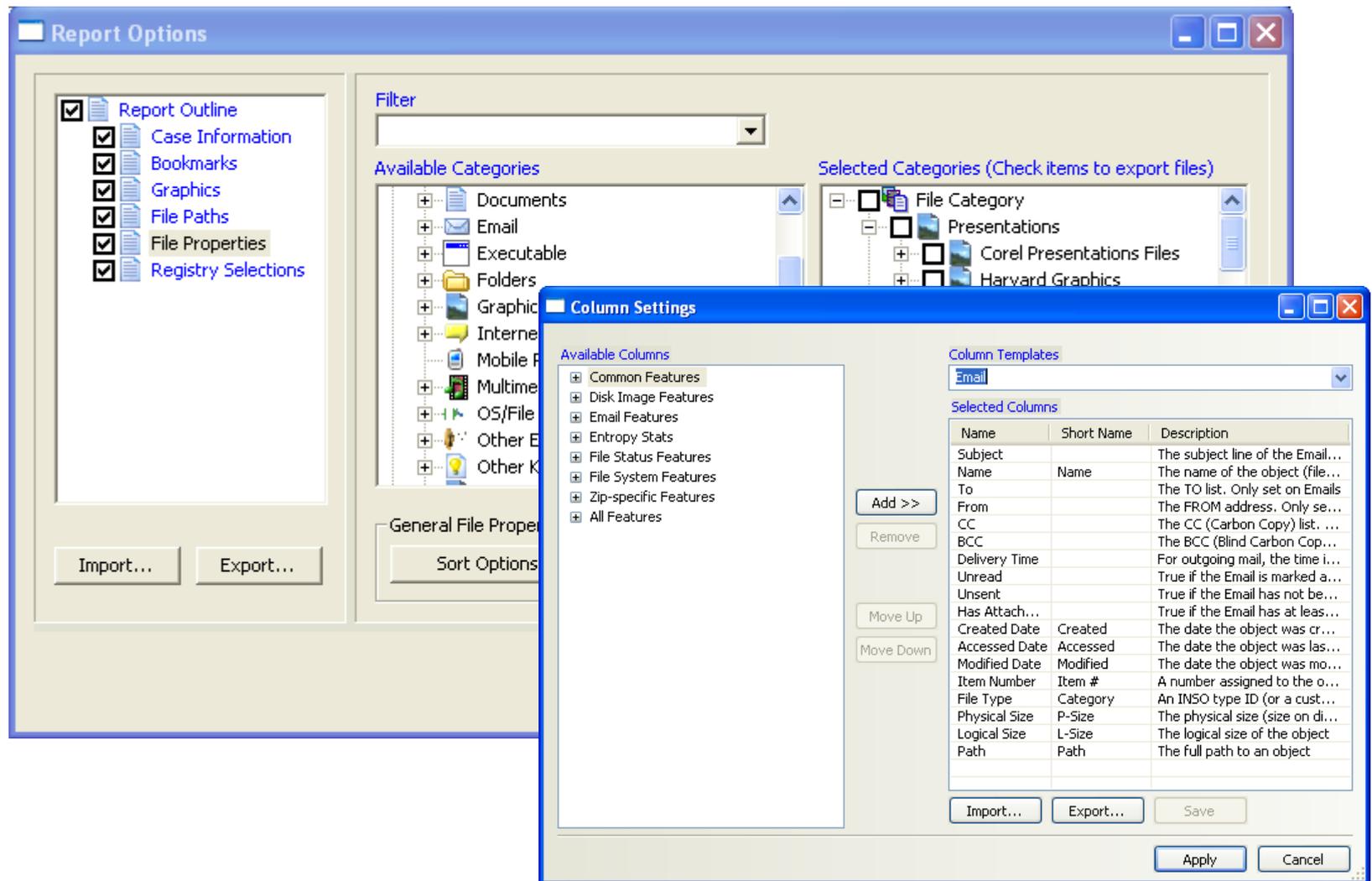
Thumbnail Section



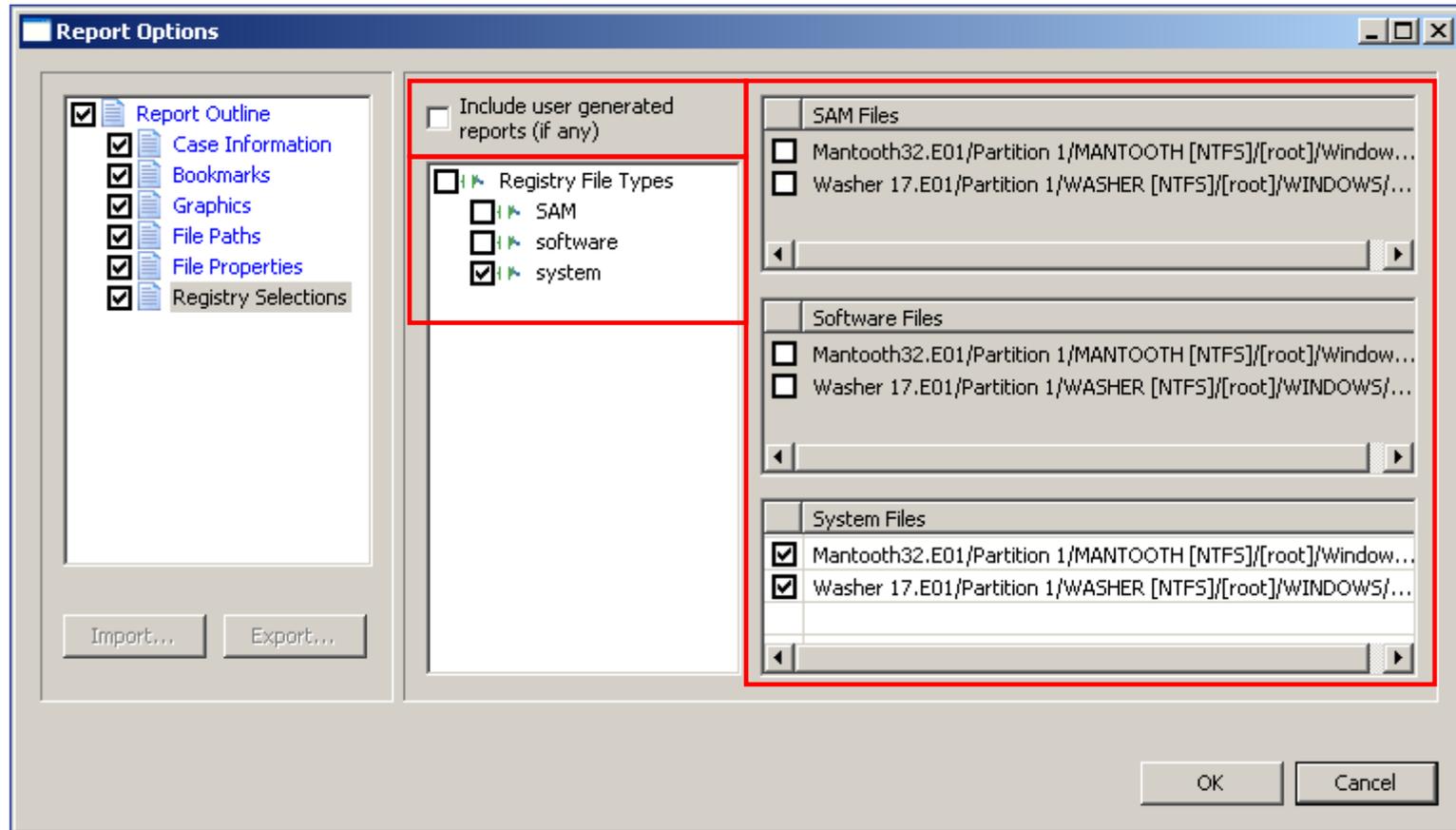
File Management - Path



File Management - Properties



Registry Selection - Reports



Mark the box **Include user generated reports (if any)** if you have generated Registry Reports using Registry Viewer, and you want to include them in this report

Report Location

Report Output

Report Folder
C:\Documents and Settings\Nick\Desktop\Report Browse...

Language:
English (United States)

Formats

- PDF
- HTML
- XML
- RTF
- WML
- DOCX
- ODF

Export Options

- Use object identification number for filename
- Append extension to filename if bad/absent

Report Logo

- Use custom logo graphic

C:\Documents and Settings\Nick\Desktop\Data\ACE_Lo Browse...

OK Cancel

Report Distribution

- **Portable Media**
- **Email**
- **Printed Copy**

