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Tactical Fingerprinting using metadata, hidden info and flown lost data using FOCA

2003 – MS Word bytes Tony Blair

Microsoft Word bytes Tony Blair in the butt

[Home](#) > [Privacy](#) > [Blair's Iraq Dossier](#)

Richard M. Smith (rms@computerbytesman.com)
June 30, 2003

Microsoft Word documents are notorious for containing private information in file headers which people would sometimes rather not share. The hard way.

Back in February 2003, 10 Downing Street published a dossier on Iraq's security and intelligence organizations. This dossier was cited by Colin Dr. Glen Rangwala, a lecturer in politics at Cambridge University, quickly discovered that much of the material in the dossier was actually plagiarized.

You can read Dr. Rangwala's original analysis of the dossier from Feb. 5, 2003 at this URL:

<http://www.casi.org.uk/discuss/2003/msg00457.html>

Blair's government made one additional mistake: they published the dossier as a Microsoft Word file on their Web site. When I first heard from I had worked on the document. I downloaded the Word file containing the dossier from the 10 Downing Street Web site (<http://www.number-10>).

```
Rev. #1: "cic22" edited file "C:\DOCUME~1\phamill\LOCALS~1\Temp\AutoRecovery save of Iraq - security.asd"
Rev. #2: "cic22" edited file "C:\DOCUME~1\phamill\LOCALS~1\Temp\AutoRecovery save of Iraq - security.asd"
Rev. #3: "cic22" edited file "C:\DOCUME~1\phamill\LOCALS~1\Temp\AutoRecovery save of Iraq - security.asd"
Rev. #4: "JPratt" edited file "C:\TEMP\Iraq - security.doc"
Rev. #5: "JPratt" edited file "A:\Iraq - security.doc"
Rev. #6: "ablackshaw" edited file "C:\ABlackshaw\Iraq - security.doc"
Rev. #7: "ablackshaw" edited file "C:\ABlackshaw\A;Iraq - security.doc"
Rev. #8: "ablackshaw" edited file "A:\Iraq - security.doc"
Rev. #9: "MKhan" edited file "C:\TEMP\Iraq - security.doc"
Rev. #10: "MKhan" edited file "C:\WINNT\Profiles\mkhan\Desktop\Iraq.doc"
```

What kind of data can be found?

- Metadata:
 - Information stored to give information about the document.
 - For example: Creator, Organization, etc..
- Hidden information:
 - Information internally stored by programs and not editable.
 - For example: Template paths, Printers, db structure, etc...
- Lost data:
 - Information which is in documents due to human mistakes or negligence, because it was not intended to be there.
 - For example: Links to internal servers, data hidden by format, etc...

Metadata Lifecycle

Wrong management
Bad format conversion
Unsecure options

New apps
or program
versions

Search engines
Spiders
Databases

Embedded
files

Wrong management
Bad format conversion
Unsecure options

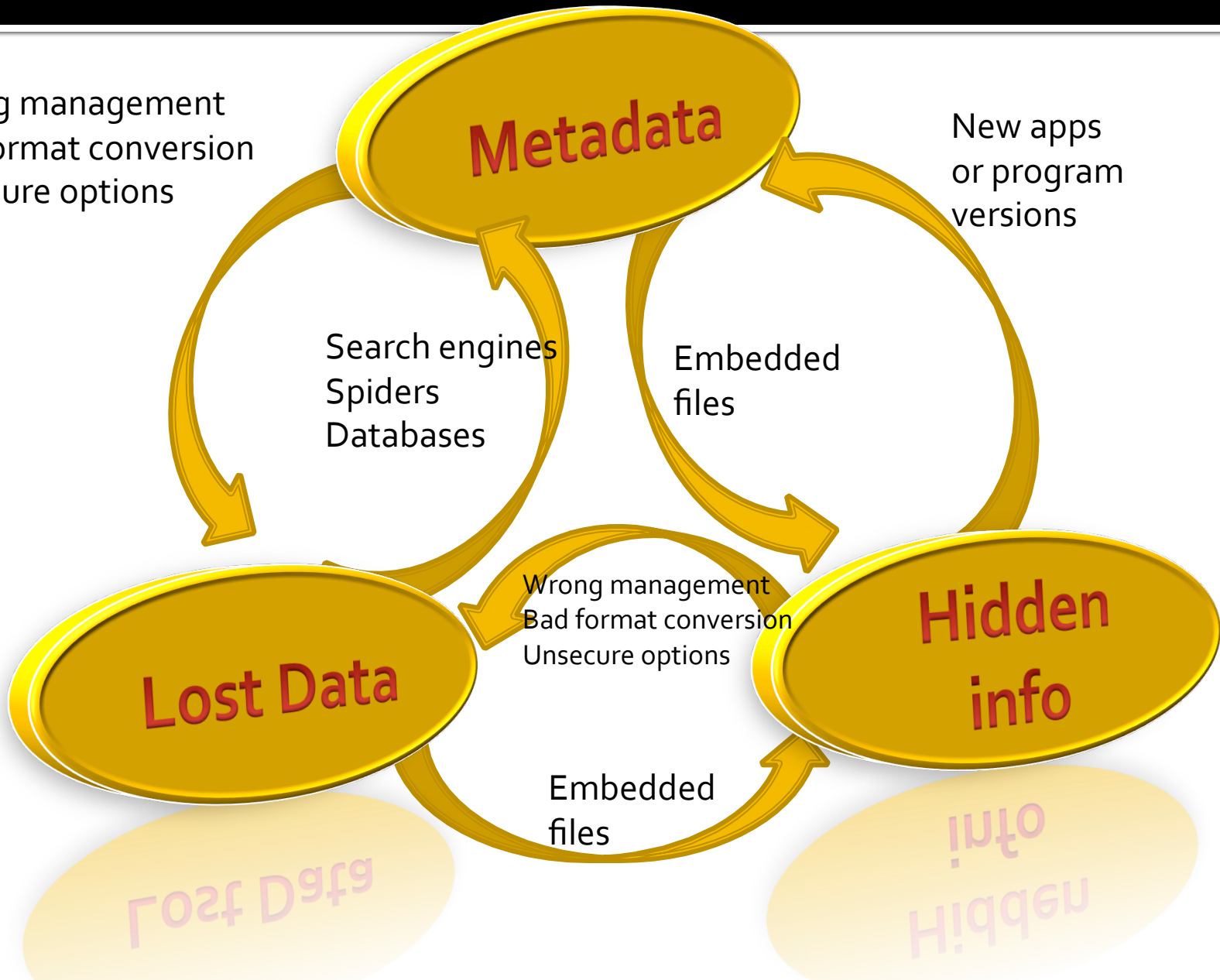
Embedded
files

Lost Data

Hidden
info

Lost Data

Hidden
info



So... are people aware of this?

- The answer is NOT.
- Almost nobody is cleaning documents.
- Companies publish thousand of documents without cleaning them before:
 - Metadata.
 - Hidden Info.
 - Lost data.

Sample: FBI.gov

Google™ site:fbi.gov filetype:xls [Búsqueda avanzada](#)
[Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **2.190 de filetype:xls** en el dominio **fbi.gov** (0,16 segundos)

Google™ site:fbi.gov filetype:doc [Búsqueda avanzada](#)
[Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **161 de filetype:doc** en el dominio **fbi.gov** (0,15 segundos)

Google™ site:fbi.gov filetype:pdf [Búsqueda avanzada](#)
[Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **2.490 de filetype:pdf** en el dominio **fbi.gov** (0,17 segundos)

Total: 4841 files

Demo: Looking for info in public FBI files

Are they clean?

BinText 2.04

Search | Filter | Help

File to scan: D:\basura\docsdescargados\nations2crimemeasures.doc [Browse] [Go]

Advanced view Time taken : 0.000 secs Text size: 11645 bytes (11.37K)

File pos	Mem pos	ID	Text
A 00007C2F	00007C2F	0	_PreviousAdHocReviewCycleID
A 00007C53	00007C53	0	_reviewingtoolsnownotice
A 00007D10	00007D10	0	CMRILEY2
A 00007D19	00007D19	0	fbinet.fbi
A 00007D2C	00007D2C	0	RILEY, C M. (CJIS) (FBI)
A 00009220	00009220	0	Microsoft Office Word Document
A 00009243	00009243	0	MSWordDoc
A 00009251	00009251	0	Word.Document.8
U 00004471	00004471	0	http://www.ojp.usdoj.gov/bjs
U 000056F2	000056F2	0	Heading 1
U 0000575C	0000575C	0	Heading 2
U 000057B6	000057B6	0	Heading 3
U 00005818	00005818	0	Default Paragraph Font
U 0000585E	0000585E	0	Table Normal
U 000058B6	000058B6	0	No List
U 000058E4	000058E4	0	Body Text
U 00005924	00005924	0	Hyperlink
U 0000595C	0000595C	0	paragraph
U 00006515	00006515	0	Times New Roman
U 00006637	00006637	0	Georgia
U 000068EE	000068EE	0	s Two Crime Measures
U 00007CA8	00007CA8	0	http://www.ojp.usdoj.gov/bjs
U 00008C01	00008C01	0	Root Entry
U 00008D80	00008D80	0	WordDocument
U 00008E02	00008E02	0	SummaryInformation
U 00008E82	00008E82	0	DocumentSummaryInformation
U 00008F02	00008F02	0	CompObj

Real Name
Username
Internal Domain
.. And more...

Ready ANSI: 72 Uni: 19 Rsrc: 0 [Find] [Save]

Sample: ec.europa.eu

Google™ site:ec.europa.eu filetype: xls [Búsqueda avanzada](#) [Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **399 de filetype: xls en el dominio ec.europa.eu** (0,28 segundos)

Google™ site:ec.europa.eu filetype: doc [Búsqueda avanzada](#) [Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **103 de filetype: doc en el dominio ec.europa.eu** (0,13 segundos)

Google™ site:ec.europa.eu filetype: ppt [Búsqueda avanzada](#) [Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **191 de filetype: ppt en el dominio ec.europa.eu** (0,12 segundos)

Google™ site:ec.europa.eu filetype: pdf [Búsqueda avanzada](#) [Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de aproximadamente **192 de filetype: pdf en el dominio ec.europa.eu** (0,12 segundos)

Google™ site:ec.europa.eu filetype: ods [Búsqueda avanzada](#) [Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 10 de un total de **10 en el dominio ec.europa.eu que contienen filetype: ods** (0,16 segundos)

Google™ site:ec.europa.eu extension:eps [Búsqueda avanzada](#) [Preferencias](#)
Buscar en: la Web páginas en español páginas de España

La Web Resultados 1 - 1 de un total de **1 en el dominio ec.europa.eu que contienen extension:eps** (0,37 segundos)

Total: 896 files

**Demo: Looking for info in
public ec.europe.eu files**

Missile Defense Agency - Windows Internet Explorer

http://www.mda.mil/mdalink/html/mdalink.html

Missile Defense Agency

Search
Contact Us

MISSILE DEFENSE AGENCY
U.S. DEPARTMENT OF DEFENSE

HOME ABOUT US BMD BASICS NEWS / RESOURCES CAREERS DOING BUSINESS

The Midcourse Phase



The Midcourse Phase - During midcourse the warhead separates from the missile body and proceeds through space.

Quick Links

- 2009 MDA Math Challenge Week
- Proposed European Assets
- 2009 BMDS Booklet (pdf)
- Budget Information
- Technology Transfer
- Environmental Information

Latest News

NAVY COMPLETES AIR AND BALLISTIC MISSILE EXERCISE

27 MAR 09 Commander, U.S. 3rd Fleet, Vice Adm. Samuel J. Locklear announced the completion of the fleet operational exercise, Stellar Daggers to test the Aegis system's ability to detect, track, engage and destroy multiple incoming air and ballistic missile threats during terminal or final phase of flight.



Listo Internet | Modo protegido: activado 100%

Are they clean?

Google™ site:mda.mil filetype:doc Search [Advanced Search](#) [Preferences](#)

Web Results 1 - 10 of **91** English pages from mda.mil for filetype:doc. (0.09 seconds)

Google™ site:mda.mil filetype:xls Search [Advanced Search](#) [Preferences](#)

Web Results 1 - 10 of **24** English pages from mda.mil for filetype:xls. (0.36 seconds)

Google™ site:mda.mil filetype:ppt Search [Advanced Search](#) [Preferences](#)

Web Results 1 - 10 of **13** English pages from mda.mil for filetype:ppt. (0.56 seconds)

Google™ site:mda.mil filetype:pdf Search [Advanced Search](#) [Preferences](#)

Web Results 1 - 10 of **947** English pages from mda.mil for filetype:pdf. (0.19 seconds)

Total: 1075 files

Are they clean?

BinText 2.04

Search | Filter | Help

File to scan: D:\basura\docsdescargados\SPEECH-08-445_EN.doc [Browse] [Go]

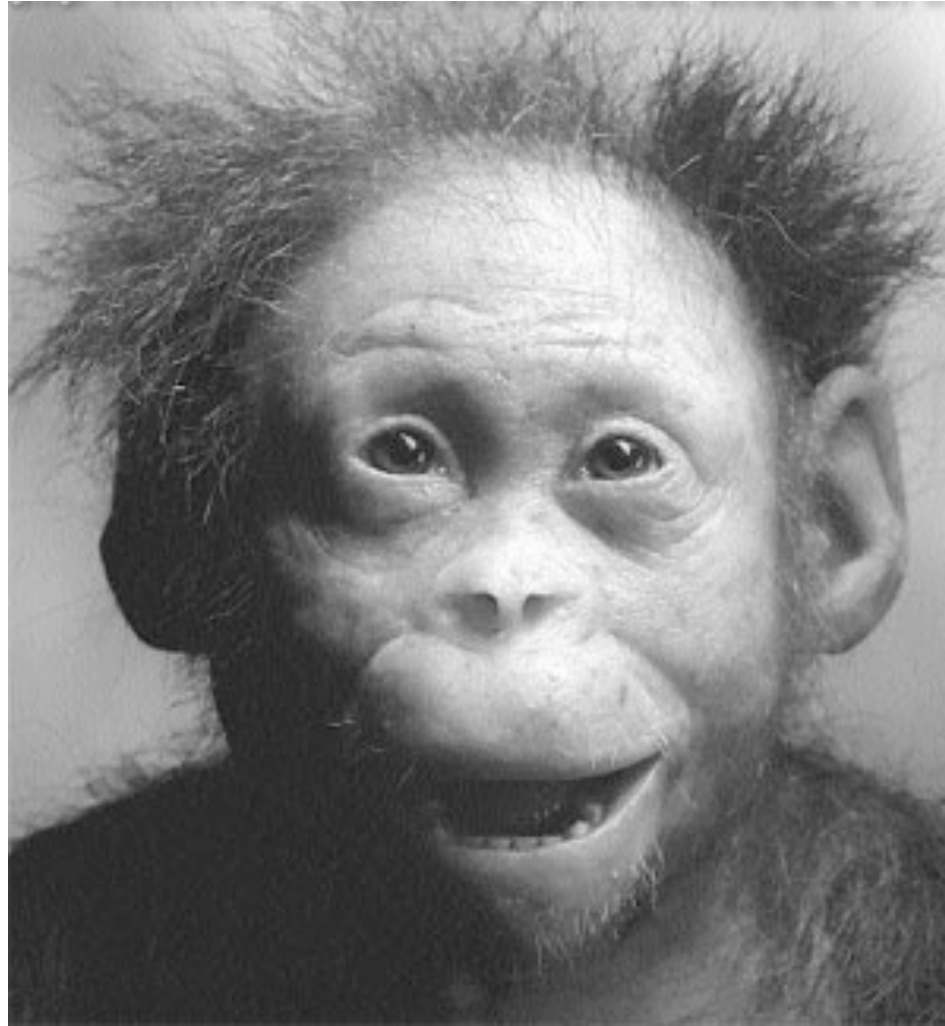
Advanced view Time taken: 0.000 secs Text size: 10141 bytes (9.90K)

File pos	Mem pos	ID	Text
A 000058BB	000058BB	0	fait foi
A 00005BC8	00005BC8	0	Es gilt das gesprochene Wort
A 00008F50	00008F50	0	SPEECH/
A 00008F6C	00008F6C	0	buttesa
A 00008F88	00008F88	0	Speech.dot
A 00008FB4	00008FB4	0	Microsoft Office Word
A 00009348	00009348	0	SPEECH/
A 000093A0	000093A0	0	Microsoft Office Word Document
A 000093C3	000093C3	0	MSWordDoc
A 000093D1	000093D1	0	Word.Document.8
A 0000C3E1	0000C3E1	0	urn:schemas-microsoft-com:office:smarrtags
A 0000C41E	0000C41E	0	urn:schemas-microsoft-com:office:smarrtags
A 0000D153	0000D153	0	\\s-comm-print1\Press-Laser023
A 0000D178	0000D178	0	winspool
A 0000D181	0000D181	0	\\s-comm-print1\Press-Laser023
A 0000D280	0000D280	0	HP LaserJet 4050 Series PCL 6
A 0000D714	0000D714	0	HP LaserJet 4050 Series PCL 6
U 00004099	00004099	0(0000)
U 00005401	00005401	0	Root Entry
U 00005500	00005500	0	WordDocument
U 00005580	00005580	0	ObjectPool
U 00005600	00005600	0	_918651658
U 00008C02	00008C02	0	CompObj
U 00008C82	00008C82	0	ObjInfo
U 00008D00	00008D00	0	Contents
U 00008D82	00008D82	0	Internal
U 00009082	00009082	0	SummaryInformation
U 00009102	00009102	0	DocumentSummaryInformation

User
Software Version
Internal Server NetBIOS name
Remote Printer Name
Local Printer

Ready ANSI: 90 Uni: 37 Rsrc: 0 [Find] [Save]

How many files is my company publishing?



**Not only Microsoft Office
documents.**

Sample: Printer info found in odf files returned by Google

```
$ grep Impresora resultados.txt | grep \\\\  
10.odt Impresora      \\srvprint\VISA28_329LC3  
12.odt Impresora      \\servidor\HP 2000C  
19.odt Impresora      \\10.177.1.126\EPSON EPL-6200 Advanced  
23.odt Impresora      \\1-215-01\hp LaserJet 1000  
34.odt Impresora      \\srv2.rm.oasi-servizi.it\RICOH roma corriodio nord  
3.odt  Impresora      \\filserver\4100  
63.odt Impresora      \\gamma\HP Deskjet F300 series  
27.ods Impresora      \\Silegio\HP psc 2350 series  
33.ods Impresora      \\ABBY\BigGrayUglyThing  
40.ods Impresora      \\MUSTAFA\Samsung ML-1710 Series  
46.ods Impresora      \\http://10.0.0.42:631\Chaucer  
80.ods Impresora      \\192.168.250.1\HP OfficeJet G55  
86.ods Impresora      \\WLGPRINT1\L10 GA T632  
89.ods Impresora      \\B-THOMAS\hp LaserJet 1300 PCL 6  
17.odp Impresora      \\tatra\Minolta Di152 PCL6  
22.odp Impresora      \\10.177.1.126\EPSON EPL-6200 Advanced  
4.odp  Impresora      \\Verra\LEMURIA  
55.odp Impresora      \\CHEGUEVARA\lp_serv  
57.odp Impresora      \\sm-ubur01-01.east.sun.com\bur116  
69.odp Impresora      \\ipp://iprint.innerweb.novell.com\prv-mktg-hp8000dn-2  
86.odp Impresora      \\EFOITDP020S4\hp4100dtn  
$  
$ grep iMac resultados.txt  
49.ods Impresora      hp psc 2500 series @ Luisa's iMac  
$ █
```


Sample: Info found in a PDF file

The image shows three overlapping windows illustrating information found in a PDF file:

- Propiedades del documento (Document Properties):** A window showing document metadata. The 'Título' (Title) field is highlighted with a red box and contains the text 'http://phxdev439'. The 'Avanzado' (Advanced) tab is selected, showing 'Productor de PDF' (PDF Producer) as 'Acrobat' and 'Versión PDF' (PDF Version) as '1.4 (Acrobat 5.0)'. The 'PDF etiquetado' (PDF Tagged) field is set to 'No'.
- Google Search Results:** A search for 'phxdev439' is shown. The search bar and the search button are visible. Below the search bar, the text 'Buscar en: la Web páginas en español páginas de España Personalizada' is displayed. The search results include a link to 'American Express - Japan - Small Business - Cards - Travel - Hotel' with a snippet of code: `ServerVariables("URL") dim serverType if (instr(fullAddress,"148.173.246.140") > 1) OR (instr(fullAddress,"phxdev439") > 1) OR (instr(fullAddress,"qhome3"))`. The code snippet is highlighted with a red box. Below the search results, a command prompt window is open.
- Command Prompt:** A window titled 'C:\Windows\system32\cmd.exe' showing the execution of a ping command: `C:\Users\Chema>ping qhome3.americanexpress.com`. The output shows four successful ping responses from 12.105.185.32 with varying response times (478ms, 457ms, 487ms, 485ms) and TTL values of 231. The statistics section shows: `Estadísticas de ping para 12.105.185.32: Paquetes: enviados = 4, recibidos = 4, perdidos = 0 (0% perdidos), Tiempos aproximados de ida y vuelta en milisegundos: Mínimo = 457ms, Máximo = 487ms, Media = 476ms`.

What files store Metadata, hidden info or lost data?

- Office documents:
 - Open Office documents.
 - MS Office documents.
 - PDF Documents.
 - XMP.
 - EPS Documents.
 - Graphic documents.
 - EXIFF.
 - XMP.
 - And almost everything.....

Pictures with GPS info..

ExifReader - fuegos.jpg

File Information Help

Open C:\Charla\Fotos\fuegos.jpg < 1/1 >

Thumbnail Image

ItemName	Information
JFIF_APP1	Exif
Comment	DuckyIIIK
JFIF_APP15	Adobe
Main Information	
ImageDescription	Málaga - Feria de Málaga: inicio de la feria 2008 desde la playa de La Malagueta.
Make	Panasonic
Model	DMC-FZ7
Orientation	Unknown (0)
XResolution	72/1
YResolution	72/1
ResolutionUnit	Inch
Software	Microsoft Pro Photo Tools
DateTime	2008:08:15 23:27:07

A red arrow points from the 'Make' field 'Panasonic' to the 'EXIFREADER' text box.

EXIFREADER

<http://www.takenet.or.jp/~ryuuji/>

Thumbnail Image

ItemName	Information
Unknown (EA1C)7,2060	2060 Bytes
Unknown (EA1D)9,1	
GPS Information	
GPSLatitudeRef	N
GPSLatitude	36 4311,496 [DMS]
GPSLongitudeRef	W
GPSLongitude	4 2423,472 [DMS]
GPSTimeStamp	21/1
GPSSatellites	0
GPSMapDatum	WGS-84
GPSDateStamp	2008:08:15
ExifR98	
ExifB	R98

Demo: Looking for EXIF information in ODF file

Even Videos with users...

TechRepublic

Blogs Downloads Forums Photos Videos Webcasts White Papers Software Training

Search TechRepublic: Search in Videos Search

IT Dojo

Now Playing:

IT Dojo: Reset Windows passwords with the Offline NT Password and Registry Editor

Windows passwords are a necessary evil. They help protect our systems, but they can also be a real pain in the neck.

...
+more

Speaker: Bill Detwiler

EMBED SHARE RECOMMEND VOTES 8

Advertisement

Burn ISO#1

ISO Burn ISO image Print Label

11:55:17... Search completed

Image file:
C:\Documents and Settings\detwiler\Desktop\cd080526.iso

Delete image after successful burn

Drive:
0:0:0:0: HL-DT-STDVDRW GSA-S10N AP09

Additional parameters:
 Simulation Write

Progress:
Device buffer:

Cancel Erase Burn ISO

02:21 / 06:38 MENU

http://video.techrepublic.com.com/2422-14075_11-207247.html

And of course, printed txt

```
lengthDev="1.2391671338078205"  
lengthMean="6.388269100743749"  
letterDev="3.3969504895821205"  
letterMean="98.00780034235972"  
otherDev="0.7987852268018356"  
otherMean="0.4328254290221839" />  
</argument>  
- <argument name="password" requiredField="false">  
  <estadisticas Special="?!+.-*_"  
    digitDev="20.80475550777649"  
    digitMean="20.629886096979508"  
    lengthDev="1.9382599794907849"  
    lengthMean="8.842559020223938"  
    letterDev="20.572733545734664"  
    letterMean="78.09636543443679"  
    otherDev="2.2702033229516623"  
    otherMean="1.2737484685862275" />  
</argument>  
- <argument name="nombre" requiredField="false">
```

file://C:\Documents and Settings\carment\Mis documentos\carpetaVM2

Lost data everywhere

The image shows a computer screen with two windows open. The left window is Adobe Reader displaying a PDF document titled "nsbs_starter_pack_partner_ulootka.pdf". A warning dialog box titled "Iniciar archivo" is overlaid on the PDF, containing a warning icon and text: "El archivo y su aplicación de visualización están definidos para que los inicie este archivo PDF. El archivo puede contener programas, macros o virus que podrían dañar el equipo. Únicamente abra el archivo si está seguro. Si el archivo procede de una persona o un programa de confianza, puede hacer clic en Abrir para verlo." Below the text is a text field containing the file path: "C:\Documents and Settings\Artur Bar\Ustawienia lokalne\Ustawienia lokalne\Temp\Ustawienia lokalne\Temp\GWViewer\www.novell.pl". There are "Abrir" and "No abrir" buttons, and a checkbox for "No volver a mostrar este mensaje".

The right window is OpenOffice.org Writer displaying a text document titled "zlmagent_autoyst_inst.odt". The document contains a script for ZLM registration. The script is as follows:

```
<filename>init.sh</filename>
<interpreter>shell</interpreter>
<source><![CDATA[
#!/bin/sh
echo 'Registering to ZLM'
rug shutdown -f
rm /var/lib/zmd/services
/etc/init.d/novell-zmd start
rug set require-verified-certs false
rug sa https://IP_ZLM server
echo 'Finished Registration'
]]></source>
</script>
</init-scripts>
```

Below the script, there is a note: "Note: For Non-Code 10 machines, replace line 9 (rm /var/lib/zmd/rm /var/opt/novell/zenworks/lib/zmd/services)".

At the bottom of the document, there is a section titled "5>Start OS installation using autoyast" with the text: "Copy the edited control file to NFS server(preferably... When the system boots from the CD, the GRUB installation screen...".

The status bar at the bottom of the OpenOffice.org Writer window shows "Página 4 / 6", "Predeterminado", "Inglés (Estados Unidos)", "INSERT", "STD", and other icons.

Public server



What can be found? (I)

- Users:
 - Creators.
 - Modifiers .
 - Users in paths.
 - C:\Documents and settings\jfoo\myfile
 - /home/johnnyf
- History of use.
- Operating systems.
- Software versions.
- Paths.
 - Local and remote.
- Network info.
 - Shared Printers.
 - Shared Folders.
 - ACLS.

What can be found? (II)

- Printers.
 - Local and remote.
- Internal Servers.
 - NetBIOS Name.
 - Domain Name.
 - IP Address.
- Database structures.
 - Table names.
 - Colum names.
- Devices info.
 - Mobiles.
 - Photo cameras.
- Private Info.
 - Personal data.

How can metadata be extracted?

- Info is in the file in raw format:
 - Binary.
 - ASCII .
- Therefore Hex or ASCII editors can be used:
 - HexEdit.
 - Notepad++.
 - Bintext
- Special tools can be used:
 - Exif reader
 - ExifTool
 - Libextractor.
 - Metagoofil.
 - ...
- ...or just open the file!

Tools: Libextractor

```
C:\ Símbolo del sistema
D:\>extract -l libextractor_ole2 C-24-45.doc
mimetype - application/msword
revision history - Revision #1: Author '' worked on ''
revision history - Revision #0: Author '' worked on ''
revision history - Revision #3: Author 'charlie' worked on 'C:\Documents and Set
tings\charlie\Escritorio\Top Secret.doc'
revision history - Revision #2: Author 'mark' worked on 'G:\Top Secret.doc'
revision history - Revision #1: Author 'mark' worked on '\\server\shared\Top Sec
ret.doc'
revision history - Revision #0: Author 'mark' worked on 'C:\Documents and Settin
gs\mark\Mis documentos\Top Secret.doc'
company - Corporation
paragraph count - 1
line count - 1
last saved by - charlie
character count - 10
template - Normal
creation date - 2008-11-24T18:55:0
title - Top Secret
word count - 1
page count - 1
creator - mark
date - 2008-11-24T18:55:0
generator - Microsoft Word 8.0

D:\>
```

Tools: MetaGoofil

http://www.Edge-Security.com/doc/471-main_pms.doc

Local copy [Open](#)

Important metadata:

```
mimetype - application/msword
revision history - Revision #9: Author 'Jennifer Romeo' worked on 'romeo HD:Documents:Articles & News:Articles_PM
revision history - Revision #8: Author 'jwiater' worked on '\\RGINTS\K\shared\PMSEP\PMSEP 6\Conference Structure
revision history - Revision #7: Author 'John Newcomb' worked on 'C:\My Documents\Scientific Man\Current Programs\I
revision history - Revision #6: Author 'Edutech User' worked on 'C:\My Documents\PMSEP Detailed Structure 8-9-02.
revision history - Revision #5: Author 'Edutech User' worked on 'C:\My Documents\PMSEP Detailed Structure 8-9-02.
revision history - Revision #4: Author 'Edutech User' worked on 'C:\My Documents\PMSEP Detailed Structure 8-7-02.
revision history - Revision #3: Author 'Edutech User' worked on 'C:\My Documents\PMSEP Detailed Structure 8-7-02.
revision history - Revision #2: Author 'Edutech User' worked on 'C:\WINDOWS\Temporary Internet Files\OLK4\PMSEP D
revision history - Revision #1: Author 'Edutech User' worked on 'C:\Documents and Settings\krobinson\Application I
revision history - Revision #0: Author 'Edutech User' worked on 'C:\Documents and Settings\krobinson\Application I
language - U.S. English
paragraph count - 13
line count - 55
last saved by - Jennifer Romeo
character count - 6717
template - Normal
creation date - 2002-08-12T14:24:00Z
title - CONFERENCE STRUCTURE
word count - 1178
page count - 5
creator - John Newcomb
date - 2002-08-12T14:24:00Z
generator - Microsoft Word 9.0
```

- <http://www.edge-security.com/metagoofil.php>

Yes, also Google....

Your FBI user

Google™

Buscar en: la Web páginas en español páginas de Español

la Web

[C:\Documents and Settings\mdrewniak\Local Settings\Temporary ...](#) - [Traducir este documento de archivo: PDF/Adobe Acrobat - [versión en HTML](#)]
United States Department of Justice. U.S. Attorney, District of New Jersey. 970 Broad Street, Seventh Floor. Newark, New Jersey 07102 ...
[www.fbi.gov/dojpressrel/2008/nk112408.pdf](#) - [Páginas similares](#)

[C:\Documents and Settings\TCalloway\Local Settings\Temporary ...](#) - [Traducir este documento de archivo: PDF/Adobe Acrobat - [versión en HTML](#)]
Members of the public are reminded that the indictment contains only charges. A defendant is presumed innocent of the charges and it will be the ...
[mobile.fbi.gov/dojpressrel/pressrel08/onlineextortion100108.pdf](#) - [Páginas similares](#)

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United States Attorney, Southern District of New York. FOR IMMEDIATE RELEASE CONTACT: S. ATTORNEY'S OFFICE. APRIL 20, 2004. MARVIN SMILON, HERBERT HADAD ...
[www.fbi.gov/dojpressrel/pressrel04/drywall.pdf](#) - [Páginas similares](#)

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United States Attorney David E. Nahmias. Northern District of Georgia. FOR IMMEDIATE RELEASE CONTACT: Patrick Crosby. 06/19/08 (404)581-6016

Your UN user

Google

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La Web

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12 Oct 2005 ... Unofficial translation from Russian. PRESS RELEASE. International Conference
on Sport and Peace Held in Moscow. 2022-04-10-2005 ...
www.un.org/sport2005/newsroom/sport_and_peace.pdf - [Páginas similares](#)

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UNITED. NATIONS ututo - ūfja "A. International Tribunal for the. Prosecution of Persons.
Responsible for Serious Violations of ...
secnet069.un.org/x/cases/mrksic/tdec/en/070206e.pdf - [Páginas similares](#)

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United Nations Relief and Works Agency. For Palestine Refugees in the Near East (UNRWA).
ANNUAL REPORT. OF THE. DEPARTMENT OF HEALTH ...
www.un.org/unrwa/publications/pdf/ar_health2004.pdf - [Páginas similares](#)

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OF RESIDENCE. AND HOUSEHOLD. (stanje 31. ozujka u 24 sata). Oln.uicP-2 ...
unstats.un.org/unsd/demographic/sources/census/quest/HRV2001enHh.pdf - [Páginas similares](#)

Your Scotland Yard user



site:police.uk intitle:"c:\documents and" filetype:pdf

Buscar

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La Web

Resultados 1

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13-JAN-2000 04:2B FROM: TO:29S4P0304 p-m. Appendix A. Reference No: 165 - 06 - 077.

Redacted copy of a receipt dated 17th October 2005, ...

www.surrey.police.uk/foi/Chief_Constabes_Expenses_Appendix_A_077.pdf - [Páginas similares](#)



Your Carabinieri user



site:carabinieri.it filetype:pdf intitle:"Documents"

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La Web

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TED-2007-61255-IT Pagina 1 di 2. Documento 2007-61255-IT. 13/03/2007 S50 Comunità europee

- Forniture - Appalti aggiudicati. I. II. IV. V. VI. ...

[www.carabinieri.it/NR/rdonlyres/4A795C84-5523-45FE-A1C3-](http://www.carabinieri.it/NR/rdonlyres/4A795C84-5523-45FE-A1C3-5CDA4526350B/3057/FORAGGIO.pdf)

[5CDA4526350B/3057/FORAGGIO.pdf](http://www.carabinieri.it/NR/rdonlyres/4A795C84-5523-45FE-A1C3-5CDA4526350B/3057/FORAGGIO.pdf) - [Páginas similares](#)

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TED-2007-81265-IT Pagina 1 di 3. Documento 2007-81265-IT. 05/04/2007 S67 Comuni

- Forniture - Appalti aggiudicati. I, 11. IV. V. VI. ...

[www.carabinieri.it/NR/rdonlyres/829B5072-15C9-45CE-9485-](http://www.carabinieri.it/NR/rdonlyres/829B5072-15C9-45CE-9485-662859109F08/3056/092INFORMATICO.pdf)

[662859109F08/3056/092INFORMATICO.pdf](http://www.carabinieri.it/NR/rdonlyres/829B5072-15C9-45CE-9485-662859109F08/3056/092INFORMATICO.pdf) - [Páginas similares](#)



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La Web Resultados 1 - 3 de

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SpendingRestraint. Non-Security Discretionary Spending. Percent change. 20. 15. 10. 5. 0. Final
Year of Prior. Administration ...
www.whitehouse.gov/omb/budgetcharts/pdf/spending-restraint.pdf - [Páginas similares](#)

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SpendingRestraint. Non-Security Discretionary Spending. Percent change. 20. 15. 10. 5. 0. Final
Year of Prior. Administration ...
www.whitehouse.gov/omb/budgetcharts/pdf/spending-restraint.pdf - [Páginas similares](#)

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A Declining Budget Deficit. Percent of GDP. 5-40-year Historical. Average. 3.6. 3.5. 2.3. 3.0.
1.7. 1.3. 1.5. February 2004. Projection ...
www.whitehouse.gov/omb/budgetcharts/pdf/declining-deficit.pdf - [Páginas similares](#)

Yes, we can!



Of course, your Novell user



site:novell.com "documents and settings" filetype:log

Buscar

Buscar en la Web Buscar sólo páginas en español

La Web

[2004.06.14 21:30 B c:\Documents and Settings\Chris\My Documents ...](#) - [[Traducir esta](#)

[2004.06.14 21:30 B c:\Documents and Settings\Chris\My Documents\Visual Studio Projects\BlogX\WeblogX\BlogXBrowsing.aspx --> www.urbanpotato.net ...](#)

[forgecvs1.novell.com/viewcvs/monoblog/BlogX/WeblogX/WS_FTP.LOG](#) - [Páginas similares](#)

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[2004.06.14 21:32 B c:\Documents and Settings\Chris\My Documents\Visual Studio Projects\BlogX\WeblogX\bin\BlogXRuntime.dll --> www.urbanpotato.net /bin ...](#)

[forgecvs1.novell.com/viewcvs/monoblog/BlogX/WeblogX/bin/WS_FTP.LOG - 1k -](#)

[En caché](#) - [Páginas similares](#)

Drawbacks

- These tools only extract metadata.
- Not looking for Hidden Info.
- Not looking for lost data.
- Not post-analysis.

Foca

- Fingerprinting Organizations with Collected Archives.
 - Search for documents
 - Automatic file downloading
 - Capable of extracting Metadata, hidden info and lost data.
 - Cluster information
 - Analyzes the info to fingerprint the network.

Demo: FOCA

FOCA: Gathering Files

The screenshot displays the I64Project2 - FOCA application window. The interface includes a menu bar with 'Project', 'Search files', 'Extract & Analyze Metadata', and 'About'. Below the menu bar are tabs for 'Project' and 'Network data'. A left-hand sidebar shows a tree view of the project structure, including folders for 'I64Project', 'Project', 'Configuration', 'Documents', 'OpenOffice (0)', 'Pdf (9)', 'Doc (0)', 'Ppt (0)', 'Xls (0)', 'Data', 'Computers', 'Users', 'Folders', and 'Printers'. The main area features a search bar with the query: `site:informatica64.com filetype:.doc OR filetype:.xls OR filetype:.ppt OR filetype:.docx OR filetype:.xlsx OR`. Below the search bar is a table with columns for 'URL', 'Download', and 'Analyzed'. The table lists various URLs from `http://www.informatica64.com` and `https://www.informatica64.com`, with corresponding download and analyzed status indicators (green dots for success, red X for failure). A status bar at the bottom indicates 'Links: 64' and 'Downloading 64 documents'.

URL	Download	Analyzed
http://www.informatica64.com/Manuales/access%20basico.pdf	●	×
http://www.informatica64.com/Manuales/Manual%20SQLServer.pdf	●	×
http://www.informatica64.com/Manuales/Seguridad.pdf	●	×
http://www.informatica64.com/materialSeminarios/FTSAIProfesional2008.pdf	■	×
http://www.informatica64.com/Manuales/sql.pdf	●	×
http://www.informatica64.com/materialSeminarios/FTSAIAuditorJunior2008.pdf	●	×
https://www.informatica64.com/Manuales/html.pdf	●	×
http://www.informatica64.com/materialSeminarios/FTSAU2008.pdf	●	×
http://www.informatica64.com/Manuales/linux.pdf	●	×
http://www.informatica64.com/Manuales/java.pdf	●	×
http://www.informatica64.com/materialSeminarios/RegistroFTASU2008.xls	■	×
http://www.informatica64.com/materialSeminarios/FicheroRegistroFTSAIProfesio...		×
http://www.informatica64.com/FicherosAdjuntos/HOL/134_HOL_LON01.ppt	×	×
http://www.informatica64.com/FicherosAdjuntos/HOL/89_HOL_EXC08.ppt	×	×
http://www.informatica64.com/descargas/diapositivas/AseguraIT_I/Mandingo.pdf	×	×
http://www.informatica64.com/FicherosAdjuntos/HOL/116_HOL-EXC22.ppt	×	×
http://www.informatica64.com/descargas/diapositivas/AseguraIT_I/RoMaNSoF...	×	×
http://www.informatica64.com/FicherosAdjuntos/HOL/142_HOL-MOM11.pdf	×	×
http://www.informatica64.com/FicherosAdjuntos/HOL/195_HOL-WIN33.pdf	×	×

FOCA Online

<http://www.informatica64.com/FOCA>

http://www.informatica64.com/FOCA/ - Windows Internet Explorer

http://www.informatica64.com/FOCA/

Archivo Edición Ver Favoritos Herramientas Ayuda

http://www.informatica64.com/FOCA/

Informática 64
Formación y Consultoría

FOCA OnLine

Esta aplicación no almacena los ficheros subidos ni el contenido de los mismos.
La única información almacenada es con fines estadísticos.

🇪🇸 🇬🇧

Extensiones soportadas: .sxw .odt .ods .odg .odp .docx .xlsx .pptx .ppsx .doc .xls .ppt .pps .pdf

Examinar... Analizar Fichero !

[Ver estadísticas de la foca.](#)

Internet 100%

Solutions?

First: Clean all public documents



Clean your documents: MSOffice 2k7

The image shows a screenshot of the Microsoft Office 2007 interface. On the left, the 'Preparar' (Prepare) ribbon is active, with the 'Inspeccionar documento' (Inspect Document) button highlighted by a red rectangle. The main window displays the 'Inspector de documento' (Document Inspector) task pane, which is also highlighted by a red rectangle. This pane lists several categories of hidden content that can be inspected:

- Comentarios y anotaciones**: Inspecciona el documento para obtener comentarios y anotaciones manuscritas.
- Propiedades del documento e información personal**: Inspecciona para obtener metadatos ocultos o información personal guardada en el documento.
- Datos XML personalizados**: Inspecciona los datos XML personalizados almacenados en este documento.
- Contenido de diapositiva invisible**: Inspecciona la presentación para objetos que no son visibles porque tienen formato invisible o porque los objetos cubiertos por otros objetos no están incluidos.
- Contenido externo a las diapositivas**: Inspecciona la presentación de objetos que no son visibles porque se encuentran fuera de las diapositivas. Esto no incluye objetos con efectos de animación.
- Notas de presentación**: Inspecciona la presentación para obtener información de las notas del moderador.

At the bottom of the task pane are 'Inspeccionar' and 'Cerrar' buttons. To the right, a larger window titled 'Inspector de documento' shows the results of the inspection. It lists the following findings:

- Comentarios y anotaciones**: No se han encontrado elementos.
- Propiedades del documento e información personal**: Se encontró la siguiente información del documento:
* Propiedades de documento (with a 'Quitar todo' button)
- Datos XML personalizados**: No se encontraron datos XML personalizados.
- Contenido de diapositiva invisible**: No se ha encontrado ningún objeto invisible.
- Notas de presentación**: Se encontraron notas de presentación. (with a 'Quitar todo' button)

At the bottom of this window, there is a warning icon and the text: 'Nota: algunos cambios no pueden deshacerse.' (Note: some changes cannot be undone.) Below this are 'Volver a inspeccionar' and 'Cerrar' buttons.

Clean your documents: MSOffice 2k3 & XP

<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=144e54ed-d43e-42ca-bc7b-5446d34e5360>

Office 2003/XP Add-in: Remove Hidden Data

Brief Description

With this add-in you can permanently remove hidden data and collaboration data, such as change tracki PowerPoint files.

On This Page

↓ [Quick Details](#)

↓ [System Requirements](#)

↓ [Related Resources](#)

↓ [Overview](#)

↓ [Instructions](#)

↓ [What Others Are Downloading](#)

Download

Quick Details

File Name:	rhdttool.exe
Version:	1.1
Date Published:	7/8/2008
Language:	English
Download Size:	260 KB
Estimated Download Time:	Dial-up (56K) ▼ 1 min

Change Language:

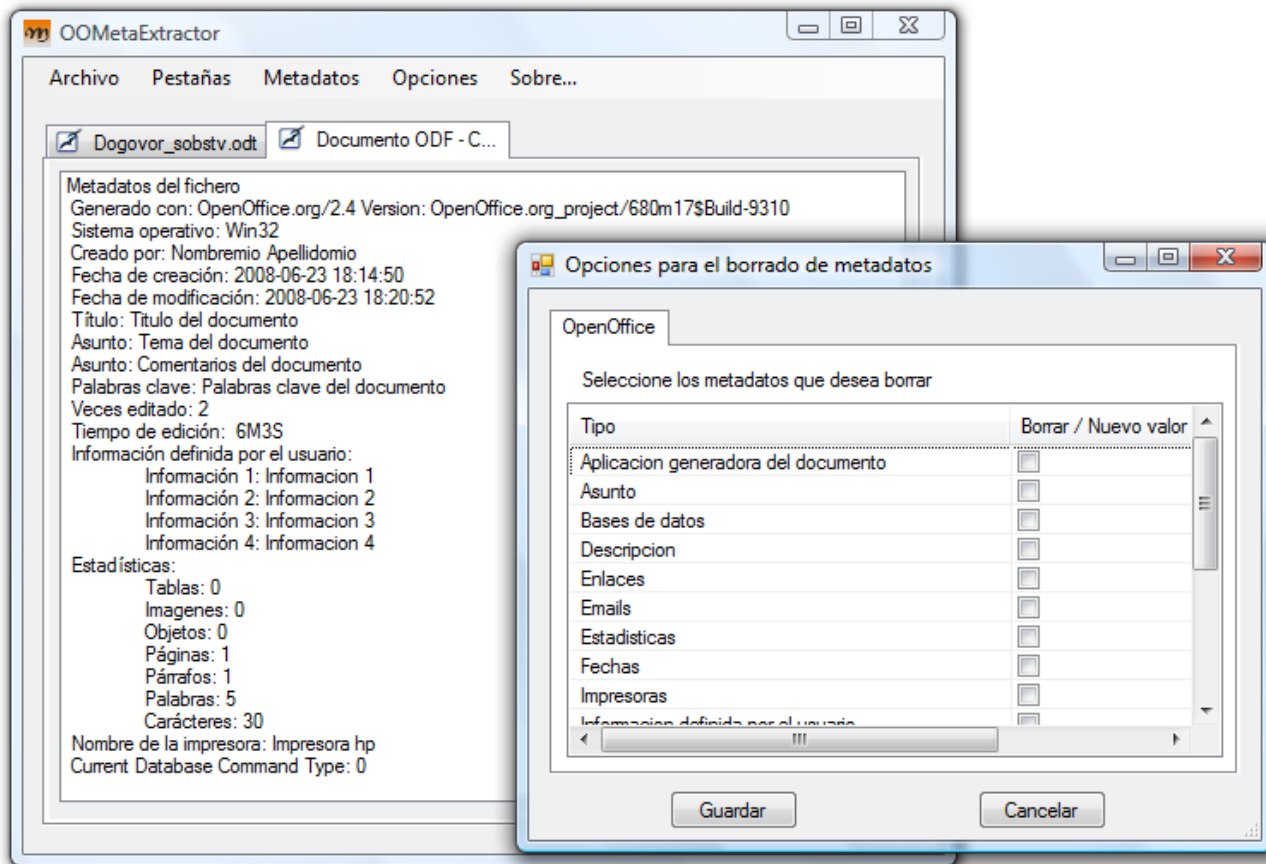
English ▼

Change

Demo: OpenOffice "Security" Options...

Cleaning documents

- OOMetaExtractor



<http://www.codeplex.org/oometaextractor>

Are you safe relying on your users?



IIS MetaShield Protector

The screenshot displays the Internet Information Services (IIS) Manager interface for a server named WIN-SDZ6SGAR65C. The main pane is titled "MetaShield Protector" and shows the following configuration:

- Configuration section properties:**
 - Enable:
 - ConnectionString: Data Source=LOCALHOST\SQLEXPRESS;Initial Catalog=Met; Test Connection
- Web Sites with MetaShield Protector:**

Web Site	Status
Default Web Site	Started
- Select files extension:**
 - docx
 - xlsx
 - pptx
 - ppsx
 - doc
 - xls
 - ppt
 - pps
 - pdf
- Log Info:**
 - Web Site: All Web Sites
 - Date: sábado, 14 de marzo de 2009

Date	Name	Time (ms)	Size (Kb)	Web Site
15:45:14	01-03-08.doc	150	211	Default Web Site
15:42:43	vedtaegter.docx	30	17	Default Web Site
15:42:41	open.odg	320	25	Default Web Site
15:42:40	hardwood.docx	80	172	Default Web Site
15:42:38	cv.docx	2123	72	Default Web Site
15:42:37	biography.docx	2513	14	Default Web Site
15:42:38	doc.pdf	1412	532	Default Web Site
15:42:37	blair.doc	50	63	Default Web Site

<http://www.metashieldprotector.com>

MetaShield Protector

Demo: Cleaning Documents

Second: Beg Google to delete all the cached files

Web Images Maps News Video Gmail more Sign i

Google™ intitle:"C documents and settings"

Web Results 1 - 10 of about 1,260,000 for intitle

[PDF] [C:\Documents and Settings\Marce](#)
File Format: PDF/Adobe Acrobat
Human Security, Conflict Prevention, and Peace. Human Security
Conflict Prevention and Peace. Editors: Francisco Rojas Araver
Moufida Goucha ...
www.unesco.org/secuiripax/seguridad_humana-english.pdf - [Similar pages](#)
by C PREVENTION - [Related articles](#) - [All 3 versions](#)

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File Format: PDF/Adobe Acrobat - [View as HTML](#)
FINAL REGULATORY ECONOMIC ANALYSIS for Final Rule: 3
AA47. Hazard Communication (HazCom). Office of Standards, R
[www.msha.gov/regs/rea/02-15396\(HazCom\).pdf](http://www.msha.gov/regs/rea/02-15396(HazCom).pdf) - [Similar pages](#)

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Google Webmaster Tools

Dashboard > Tools

Overview
Settings
Diagnostics
Statistics
Links
Sitemaps
Tools

Tools

Overview
Analyze robots.txt
Generate robots.txt
Manage site verification
Remove URLs
Enhance 404 pages
Gadgets

Tools

www.novell.com

💡 [Verify](#) your site to see detailed statistics

[Analyze robots.txt](#)
See whether your robots.txt file blocks specific URLs as is, or with modifications you make. Test against various Google user-agents, too.

[Generate robots.txt](#)
Interactively create a robots.txt file to indicate which robots you don't want crawling your site, and which file directories you don't want crawled.

[Enhance 404 pages](#)
Help users who receive a Page Not Found error find the information they need.



Don't trust your users!!!



Don't complain about your job!!



Questions?

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- antonio.guzman@urjc.es

PS: This file also has metadata

The screenshot shows the FOCA 0.7.5.6 application window. The interface includes a menu bar with 'Project', 'Search files', 'Analyze Metadata', 'Options', and 'About'. Below the menu bar are two tabs: 'Project' and 'Network data'. The 'Project' tab is active, showing a tree view of a project structure. The tree view includes 'No project', 'Project', 'Configuration', 'Documents (1)', 'Fingerprinting_networks.p', 'MetaData', 'Users (0)', 'Folders (0)', 'Printers (0)', 'Software (1)', and 'Emails (0)'. The 'Fingerprinting_networks.p' folder is selected, and its contents are displayed in a table.

Attribute	Value
File Information	
URL	C:\Universidad\BH 2k9\Fingerprinting_networks.pptx
Local path	C:\Universidad\BH 2k9\Fingerprinting_networks.pptx
Download	True
Analyzed	True
Download date	16/04/2009 16:10:56
Size	5,65 MB
Dates	
Creation date	10/03/2009 13:00:07
Modified date	16/04/2009 14:08:35
Other Metadata	
Application	Microsoft Office PowerPoint - 12.0000
Revisions	1
Software	
Software	Microsoft Office 2007

All documents were analyzed