GovRisk

The International Governance & Risk Institute

Use of Technology to Detect Collusive Practices

Colin Ehren
Managing Partner, C&SE

Tackling Corruption and Collusion in Public Procurement: Latin America and the Caribbean

Panama City, 2013

September 12, 2013

Overview

- Challenges of Gathering Evidence from the Internet.
- Automating Collusion Detection in Public Procurement.
- Combining Manual and Automated Bid Analyses

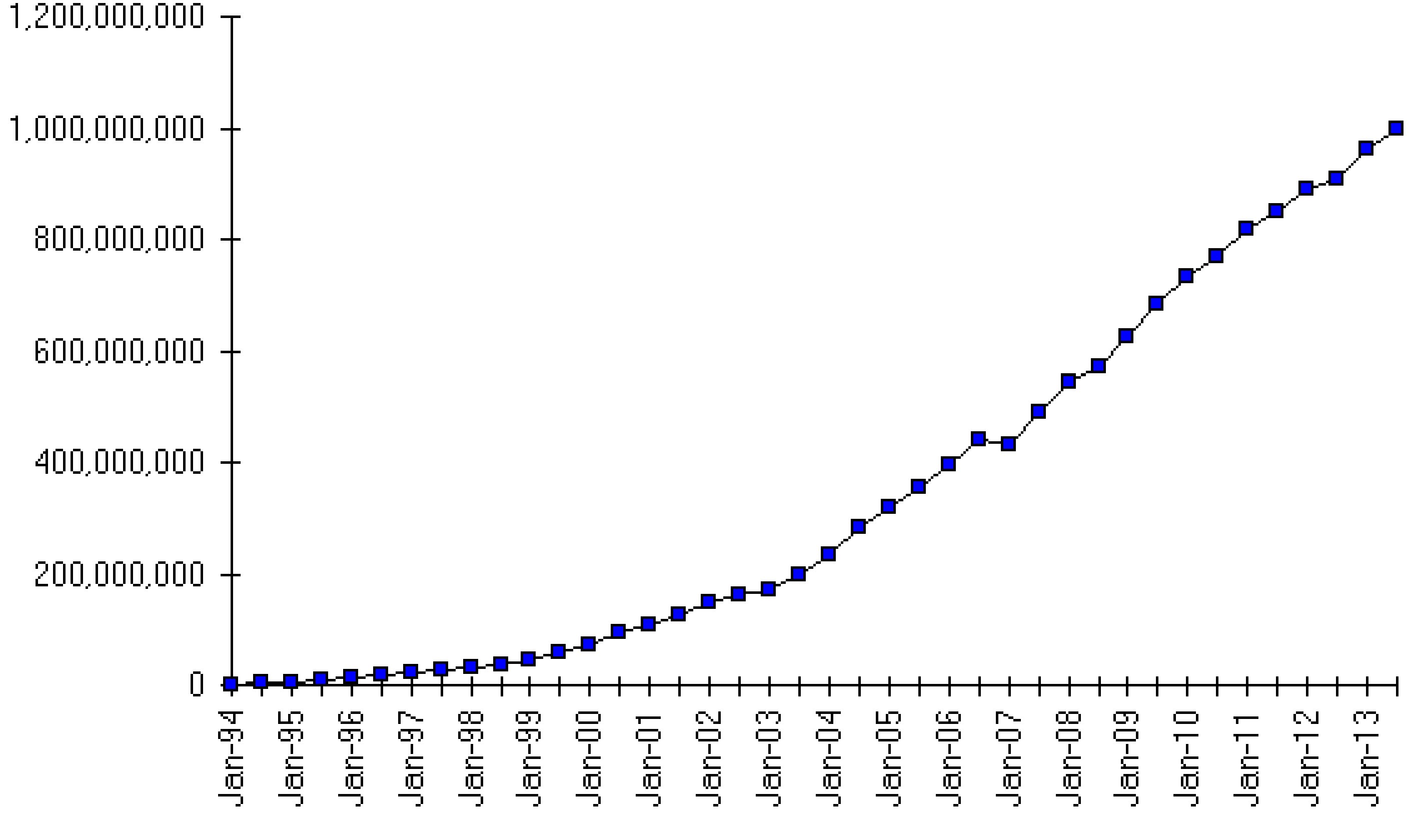
Challenges of Gathering Evidence from the Internet

- Size of the Internet
- Search Engines
- Invisible Web
- Social Media
- Gathering & Evidencing content.
- Compromise Issues & Internet Footprints

Size of the Internet

July 2013 - 996,230,757 Hosts

Internet Domain Survey Host Count



Source: Internet Systems Consortium (www.isc.org)

September 12, 2013

Colin Ehren
candse@gmail.com

Size of the Internet

August 2013

- Google – 47+ bn
- Yahoo – 29.4 bn
- Bing – 30.9 bn
- Lycos – 30.4 bn
- Baidu – 4.5 bn (estimate)
- Yandex – 3.2 bn
- Terra – 2+ bn

Deep or Invisible Web

Google™
Ask™ .com UK
altavista™
bing™
terra
excite®
blekko
GIGABLAST™
exalead®
YAHOO!®
semaGER.com
semantic search
iBoogie™
KARTOO
GrabAll™
LYCOS
virgilio
Il bello di internet
Voodoo-it
ixquick™
MetaGer
SUMA-EV
Яндекс
Yandex
trazi com
hispavista
conexcol.com
fastbot>>
ezilon®.com
DuckDuckGO
TEOMA℠
Buscar
LIBERO.
MEGAPORT.HU
Bai du 百度
www.baidu.com
WEB.DE
.com.py
iZito
busco.com
adonde.com
PORTAL Y BUSCADOR DEL PERÚ
mamma®
The Mother of All Search Engines®
voila
ACOON
dogpile®
SurfWax
enabling knowledge
clush
Global Search Directory

Search Engines

What does Google know?

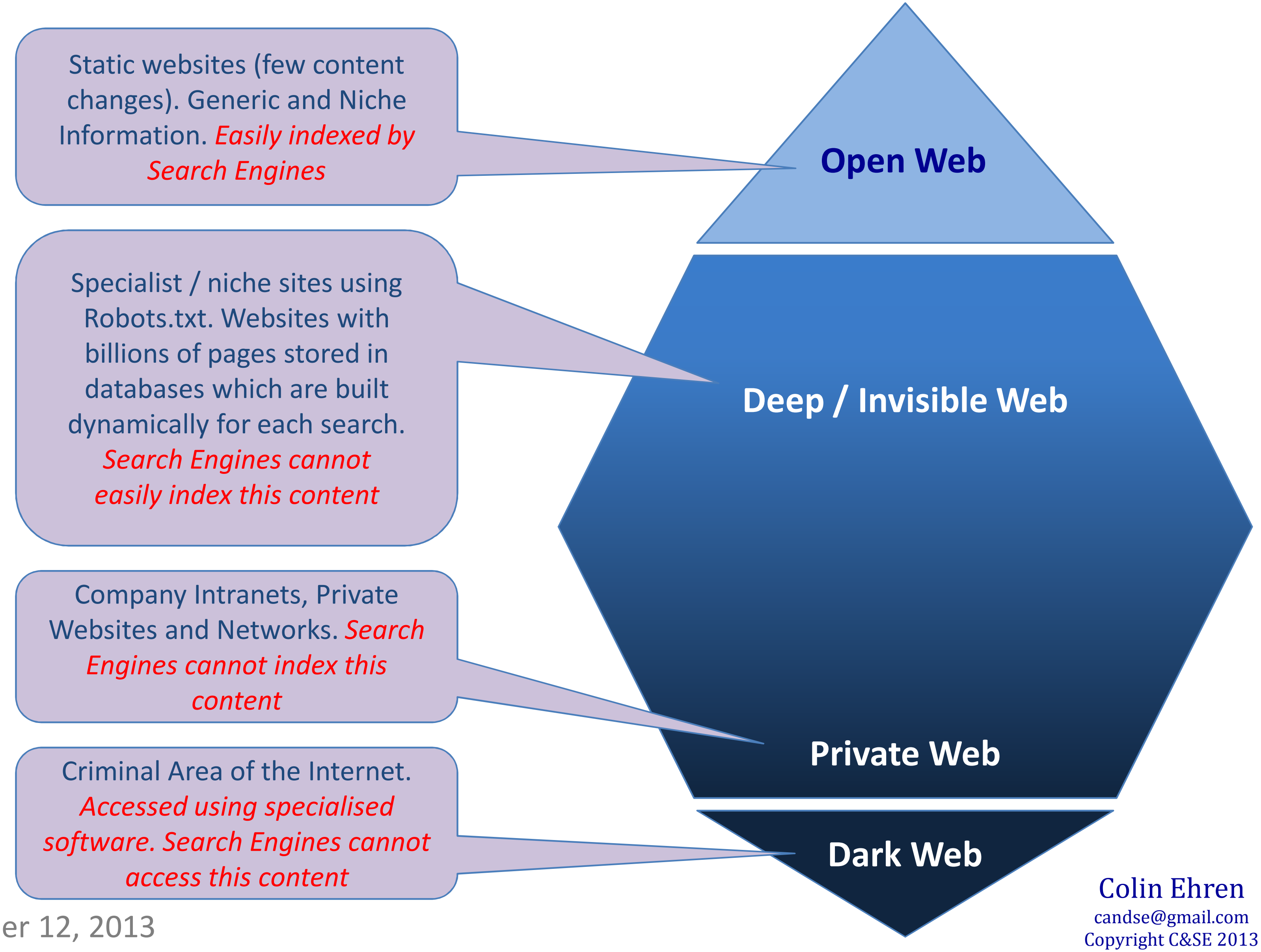
2007 - Eric Schmidt (Google CEO) estimated Google had indexed roughly 0.004% of the Internet.

July 2008 – Google had identified 1 trillion (1,000,000,000,000) unique URL's.

Everything is on the Internet.

It is estimated that 80% of Open Source information exists in Books, Magazines, Literature and other Media.

Invisible Web



Static websites (few content changes). Generic and Niche Information. *Easily indexed by Search Engines*

Specialist / niche sites using Robots.txt. Websites with billions of pages stored in databases which are built dynamically for each search. *Search Engines cannot easily index this content*

Company Intranets, Private Websites and Networks. *Search Engines cannot index this content*

Criminal Area of the Internet. *Accessed using specialised software. Search Engines cannot access this content*

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Colin Ehren
candse@gmail.com

Invisible Web

July 2001, Michael Bergman produced a white paper for www.brightplanet.com

- 400 to 550 times larger than the World Wide Web.
- 7,500 terabytes of information compared to 19 terabytes on WWW.
- 550 billion documents compared to 30 billion on the WWW.
- 200,000+ deep Web sites.
- 60 of the largest sites collectively contained over 40x the information on the WWW.

2004 Study - identified 330,000+ Deep Web sites.

Has grown almost exponentially since.

Social Media

- Austria, Belgium , Croatia, Cyprus, Czech Republic, Denmark, Finland, FYR of Macedonia, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Norway, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey & UK - **Facebook**, **Youtube**
- Bulgaria – **Facebook**, **VBox7**, **Youtube**
- Estonia – **Facebook**,**Youtube**, **VKontakte**
- France – **Facebook**, **Skyrock**, **Youtube**
- Hungary – **Facebook**, **Iwiw**, **Youtube**
- Latvia – **Youtube**, **Draugiem**, **Facebook**
- Lithuania – **Facebook**, **Youtube**, **One**
- Netherlands – **Facebook**, **Hyves**, **Youtube**
- Poland – **Facebook**, **Youtube**, **Chomikuj**
- Portugal – **Facebook**, **Youtube**, **Twitter**
- Romania – **Facebook**, **Youtube**, **Hi5**

Social Media

- China.
  - Qzone, Tencent Weibo, Sina Weibo, RenRen
- Russia.
  - Vkontakte, Youtube, Odnoklassniki, Facebook, Livejournal
- India.
  - Facebook, Youtube, Orkut, Ibibo
- Georgia
  - Facebook, Youtube, Odnoklassniki, VKontakte
- Brazil
  - Facebook, Youtube, Twitter, Orkut
- Panama
  - Facebook, Youtube, Twitter

blurty
Create Journals
Update Journals
Journals
Find Users
Random
Read
Search
Create New
Communities
flickr GAMMA
myGamma myWorld
mobile Community
8 CarDomain years old!
facebook
myspace.com a place for friends
listography, your life in lists
create. share. read.
sconex Your High School Online
bebo
photobucket Video and Image Sharing
care2 Make a Difference!
Bolt
eons
downelink BETA
hi5
kaneva beta
LiVEJOURNAL
Create an Account
Post to Journal
xanga.com THE WEBLOG COMMUNITY
YouTube
Faceparty THE BIGGEST PARTY ON EARTH
FOTOLOG
VampireFreaks.com
Mashable! social networking 2.0
All
MySpace
YouTube
Bebo
Facebook
Xanga
last.fm the social music revolution
Gaia ONLINE
it's all about the music
Music forte
friendster
Windows Live Spaces
MOG BETA
VALIDATING MUSIC GEEKS SINCE 2006
MULTIPLY
SECOND LIFE
VOX
profileheaven v2.0 ...FUN IN THE AFTERLIFE!
ODEO
myYearbook BETA YOU'VE GOT FRIENDS!
www.mymidishare.com
sound
MIDIs and MP3s
imvu beyond instant messaging
orkut beta
WAYN WHERE ARE YOU NOW?
TagWorld
LibraryThing BETA
StumbleUpon
PICZO
OUTERWORLDS
Where Virtual Reality And Real People Meet!

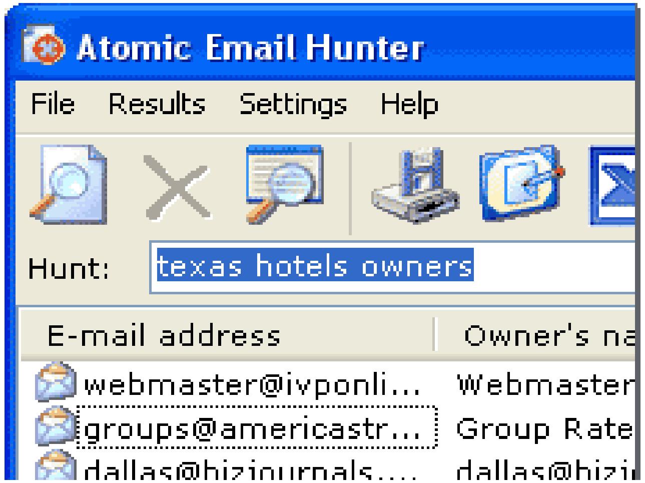
Traditional Social Media Tools

- Internet Relay Chat
- Usenet Talk Groups
- Google Groups / Yahoo Groups
- MSN/Skype, Yahoo, AOL Messengers and Chat Rooms
- E-mail
- Dedicated Discussion Forums
- Dating – Muslim Match, Uniform Match, Adult Friend
- Reunion Sites.

Gathering Data

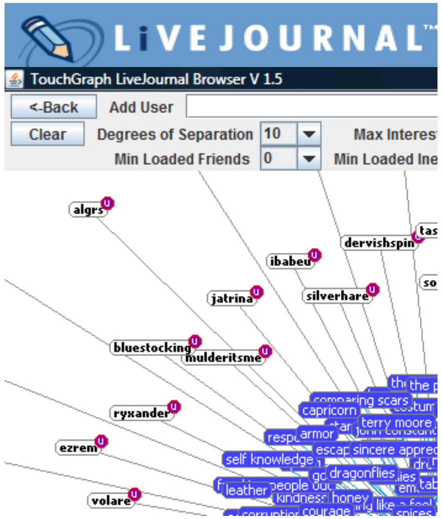
Common Issue – Large amounts of data

- Social Media Tools
- Data Extraction Tools.
- Visualisation Tools



Hunt: texas hotels owners

E-mail address	Owner's na
webmaster@ivponli...	Webmaster
groups@americastr...	Group Rate
dallas@bizjournals....	dallas@bizi



TouchGraph LiveJournal Browser V 1.5

Degrees of Separation 10

Min Loaded Friends 0

Colin Ehren
candse@gmail.com

Gathering Data

CutePDF™ ideas for PDF

Video DownloadHelper™
MEDIA DOWNLOAD & CONVERT FIREFOX EXTENSION

Abduction!
3.0.18

Colin Ehren
candse@gmail.com

GovRisk
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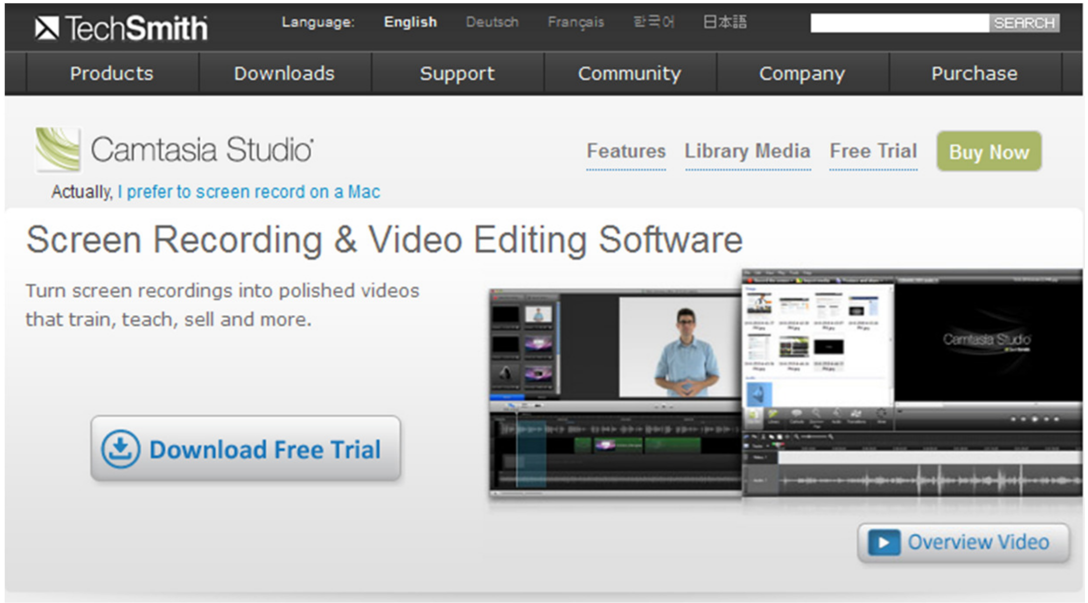
Evidencing Data

Prove it or Lose it

All your efforts will be wasted unless you can prove what you found.



TechSmith
Language: English Deutsch Français 한국어 日本語
SEARCH
Products
Downloads
Support
Community
Company
Purchase
Camtasia Studio
Features
Library Media
Free Trial
Buy Now
Actually, I prefer to screen record on a Mac
Screen Recording & Video Editing Software
Turn screen recordings into polished videos that train, teach, sell and more.
Download Free Trial
Overview Video

September 12, 2013

Colin Ehren
candse@gmail.com

Evidencing Data

General Rules

- Captured data should be given unique file names when saved.
- Data from different investigations kept separately.
- Data from different investigations must not be saved to the same CD/DVD disk.
- Separate CD/DVD disk should be used for each person subject to the investigation.

Evidencing Data

Original Notes

- Full record of the Investigators actions
- Made contemporaneously at the time or as soon as possible after.
- Content – Acts as basis for Statement.
- May be many months until Court case.
- Importance cannot be over stated.

Evidencing Data

Preserving the Evidential Chain

- When moving Data the Evidential Chain must be preserved.
- Proving the Integrity of the Data – MD5 / SHA1 Hash
- Moving Data – CD / DVD Disk.
- Exhibiting Data – Evidential Bag
- Notes
- Stored Securely

Compromise Issues

Multiple ways to access the Internet;

- Corporate networked PC’s
- Corporate stand-alone PC’s
- Re-claimed stand-alone PC’s
- Covert / Unattributed stand-alone PC’s
- Covert / Unattributed networked PC’s
- Working from Home (Stand-alone or Networked)
- Mobile Devices
- Internet Café’s

Compromise Issues

Criminals are aware that the Organisations use the Internet for their Research or Investigations. There are several issues that surround these methods of access.

Recommendations

- Corporate Networked and Stand-Alone workstations should only be used for generic research such as obtaining Crime Trend information or Research Publications from accredited websites.
- All detailed or sensitive Internet research or Open Source Investigations should be undertaken on a covert or unattributed and registered PC, using a covert or unattributed Internet connection.

Compromise Issues

Why?

Your Internet Footprint could compromise yourself, your colleagues or an Investigation or Intelligence Operation that your Organisation or a Partner may be engaged in.

Colin Ehren
candse@gmail.com

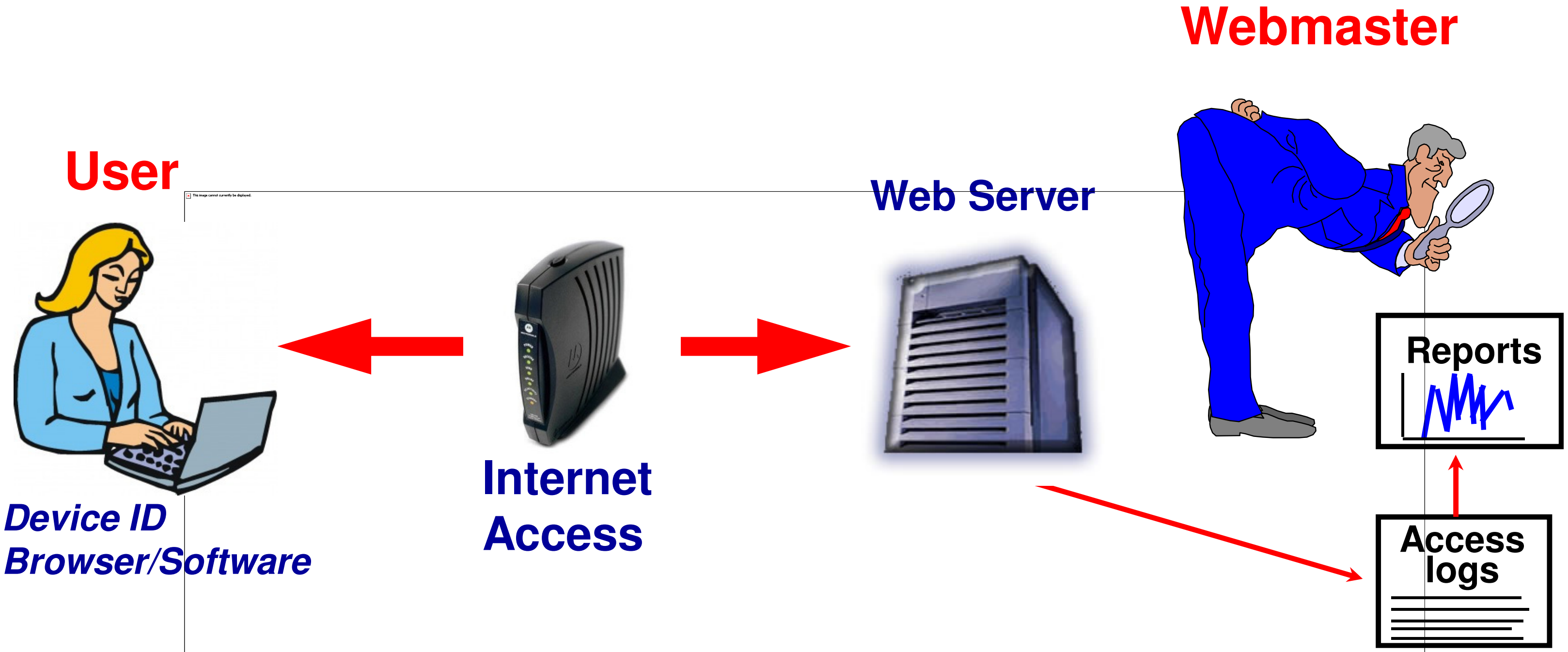
Compromise Issues

Every time you use the Internet you leave your footprints on the websites that you visit.

The size of your whole footprint depends on the 'environment variables' that your computer and internet browser pass and on your web activity.

Colin Ehren
candse@gmail.com

Compromise Issues



- When you click on a hyperlink your browser sends your ‘Internet footprint’ to a Web Server so that it can find what you want and send it back to you.
- The Webmaster in control of the Web Server can view your ‘footprint’ to gain information about you or your organization (physical location, ISP, your interests, type of PC/Software, etc.)

Colin Ehren
candse@gmail.com

Compromise Issues

- Footprints are left on every web server of every web page that you visit.
- Be aware of what footprints you are leaving before visiting websites which could implicate your organization.
- Should you visit: badguy.com from a Government / Police Internet Connection?
- Your footprints can include;
  - The name of your computer (or gateway).
  - The IP address of your computer, or proxy gateway.
  - The URL of the page you were previously viewing. *(Web masters use this to see what web pages lead visitors to their site.)*

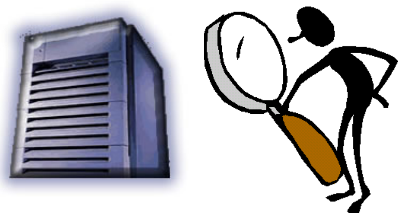
Colin Ehren
candse@gmail.com

Compromise Issues

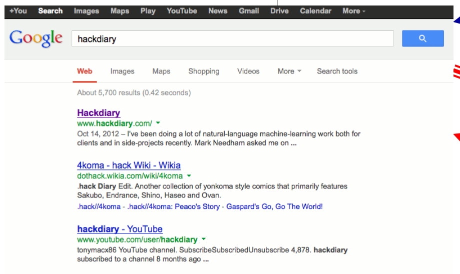
User

“search terms”

Google.com



webmaster



+You **Search** Images Maps Play YouTube News Gmail Drive Calendar More ▾

Google hackdiary

Web Images Maps Shopping Videos More ▾ Search tools

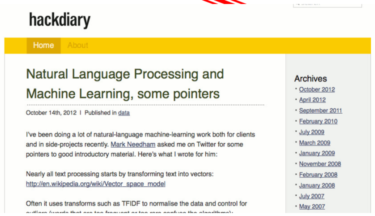
About 5,700 results (0.42 seconds)

Hackdiary
www.**hackdiary**.com/ ▾
Oct 14, 2012 – I've been doing a lot of natural-language machine-learning work both for clients and in side-projects recently. Mark Needham asked me on ...

4koma - hack Wiki - Wikia
dothack.wikia.com/wiki/4koma ▾
.**hack Diary** Edit. Another collection of yonkoma style comics that primarily features Sakubo, Endrance, Shino, Haseo and Ovan.
.hack//4koma - .hack//4koma: Peaco's Story - Gaspard's Go, Go The World!

hackdiary - YouTube
www.youtube.com/user/**hackdiary** ▾
tonymacx86 YouTube channel. SubscribeSubscribedUnsubscribe 4,878. **hackdiary** subscribed to a channel 8 months ago ...

http://www.google.com/keywords=searchterms



hackdiary

Home About

Natural Language Processing and Machine Learning, some pointers

October 14th, 2012 | Published in data

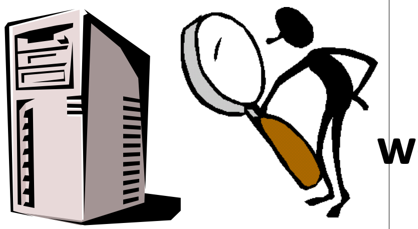
I’ve been doing a lot of natural-language machine-learning work both for clients and in side-projects recently. Mark Needham asked me on Twitter for some pointers to good introductory material. Here’s what I wrote for him:

Nearly all text processing starts by transforming text into vectors:
http://en.wikipedia.org/wiki/Vector_space_model

Often it uses transforms such as TFIDF to normalise the data and control for outliers (words that are too frequent or too rare confuse the algorithms):

Archives
- October 2012
- April 2012
- September 2011
- February 2010
- July 2009
- March 2009
- January 2009
- November 2008
- February 2008
- January 2008
- July 2007
- May 2007

Hackdiary.com



webmaster

Footprint:
- @your.org OR
- you@yahoo.com

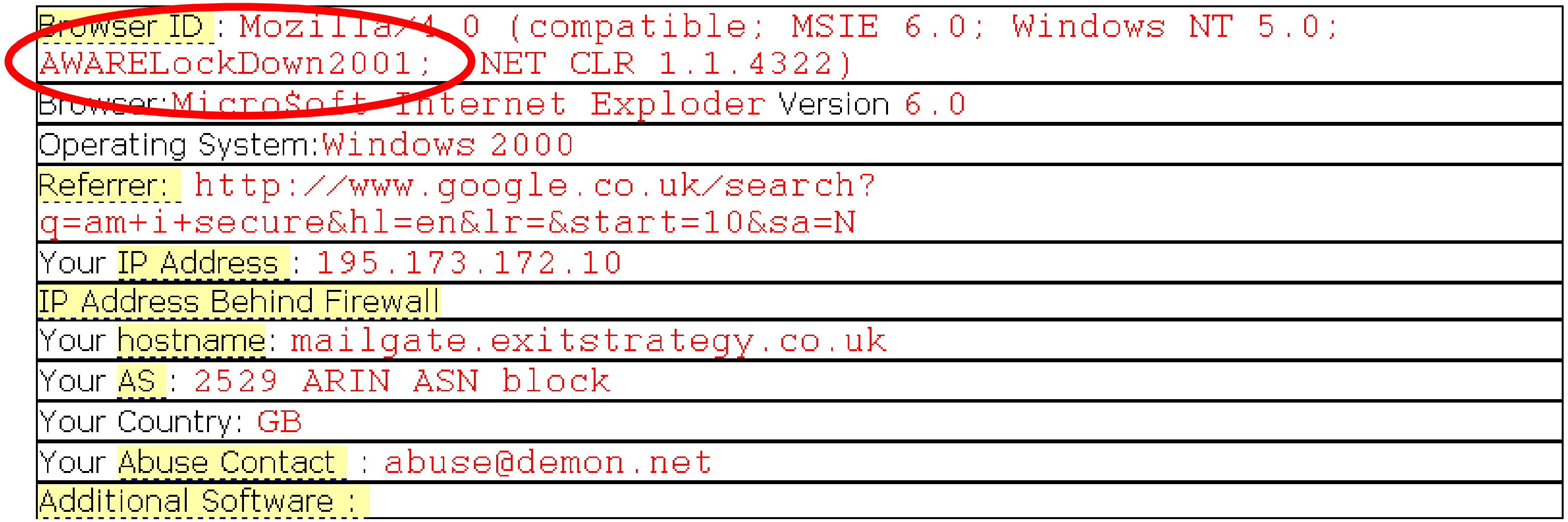
▬ google.com webmaster knows your “search terms”

═ hackdiary.com webmaster knows what “search terms” you used to find them.

Colin Ehren
candse@gmail.com

Compromise Issues

In Summary - Your internet footprint could compromise an investigation or intelligence operation that your organisation or Law Enforcement Agency may be engaged in.



Browser ID : Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; AWARELockDown2001; .NET CLR 1.1.4322)

Browser:Micro$oft Internet Exploder Version 6.0

Operating System:Windows 2000

Referrer: http://www.google.co.uk/search?q=am+i+secure&hl=en&lr=&start=10&sa=N

Your IP Address : 195.173.172.10

IP Address Behind Firewall

Your hostname: mailgate.exitstrategy.co.uk

Your AS : 2529 ARIN ASN block

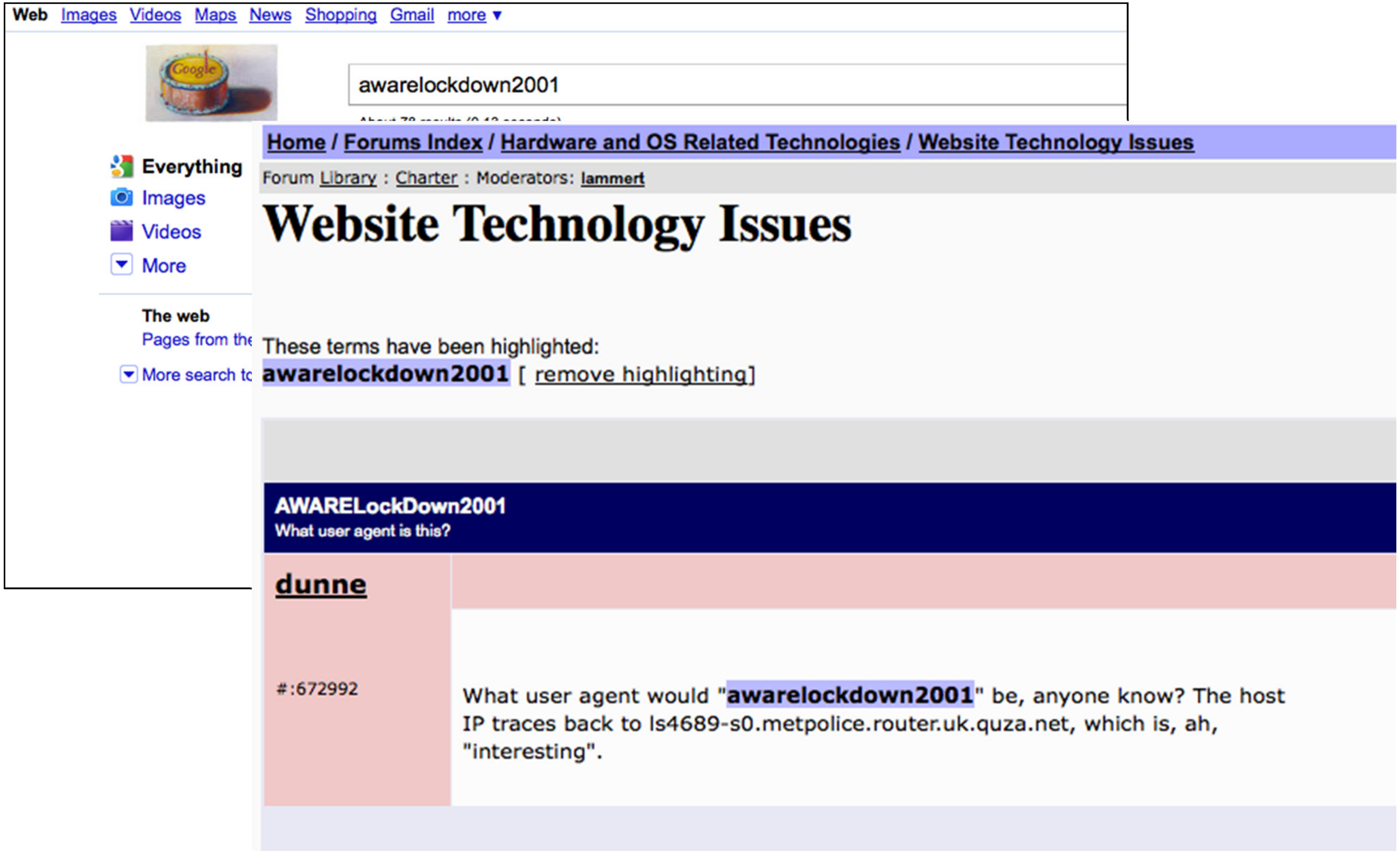
Your Country: GB

Your Abuse Contact : abuse@demon.net

Additional Software :

Colin Ehren
candse@gmail.com

Compromise Issues



Home / Forums Index / Hardware and OS Related Technologies / Website Technology Issues

Forum Library : Charter : Moderators: lammert

Website Technology Issues

These terms have been highlighted:
awarelockdown2001 [remove highlighting]

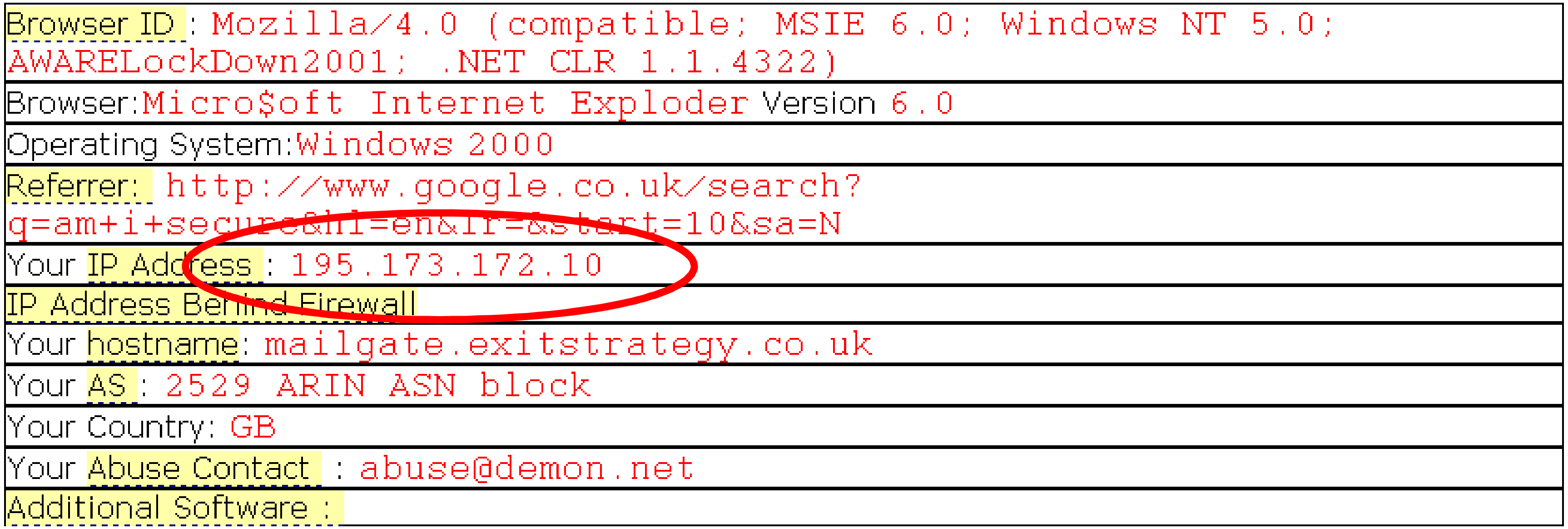
AWARELockDown2001
What user agent is this?

dunne

#:672992

What user agent would "awarelockdown2001" be, anyone know? The host IP traces back to ls4689-s0.metpolice.router.uk.quza.net, which is, ah, "interesting".

Compromise Issues



Browser ID :	Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; AWARELockDown2001; .NET CLR 1.1.4322)
Browser:	Micro$oft Internet Exploder Version 6.0
Operating System:	Windows 2000
Referrer:	http://www.google.co.uk/search?q=am+i+secure&hl=en&lr=&start=10&sa=N
Your IP Address :	195.173.172.10
IP Address Behind Firewall	
Your hostname:	mailgate.exitstrategy.co.uk
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Colin Ehren
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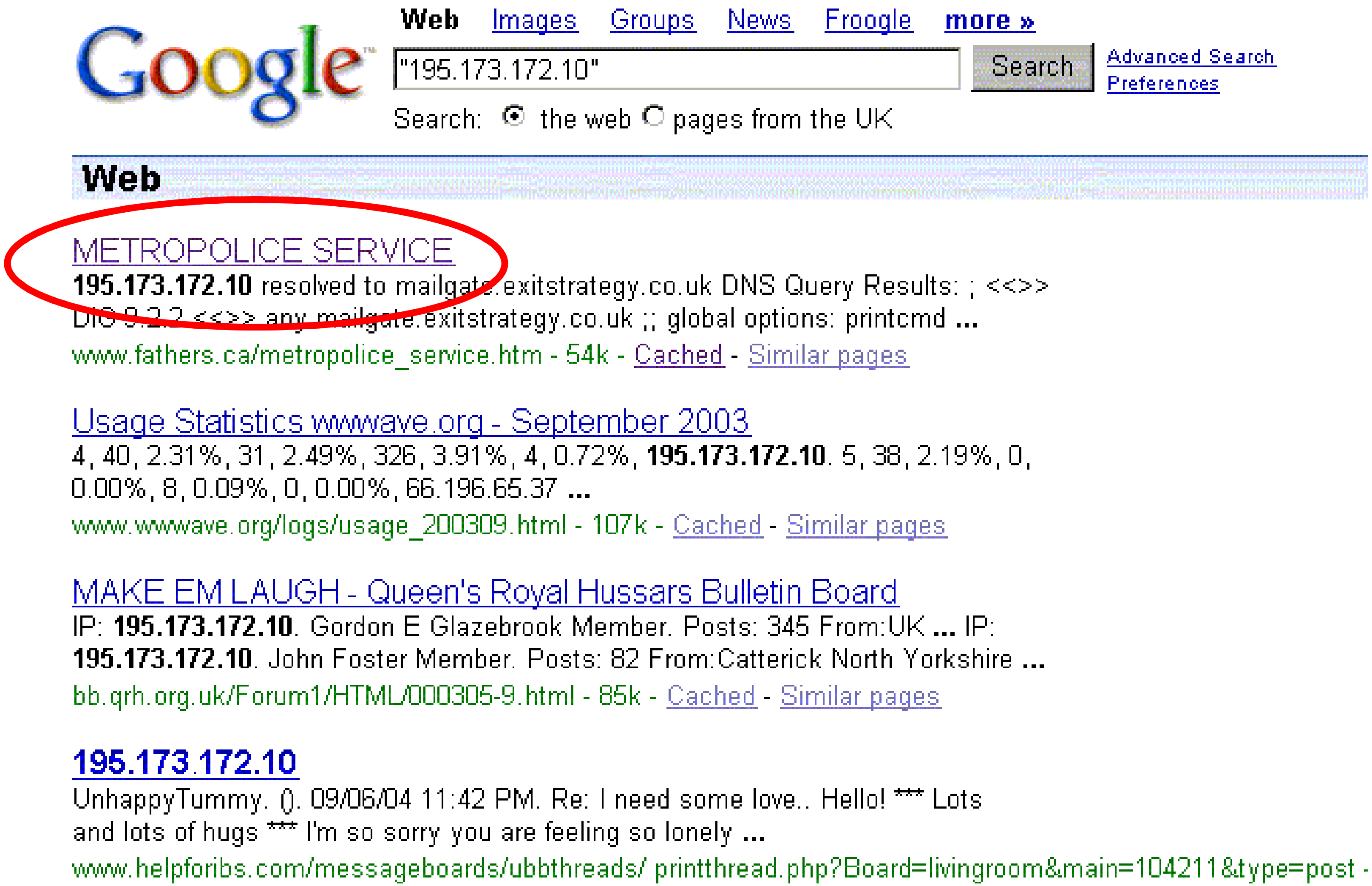


"195.173.172.10"

Search: ● the web ○ pages from the UK

Web

METROPOLICE SERVICE
195.173.172.10 resolved to mailgate.exitstrategy.co.uk DNS Query Results: ; <<>> DiG 9.2.2 <<>> any mailgate.exitstrategy.co.uk ;; global options: printcmd **...**
www.fathers.ca/metropolice_service.htm - 54k - Cached - Similar pages

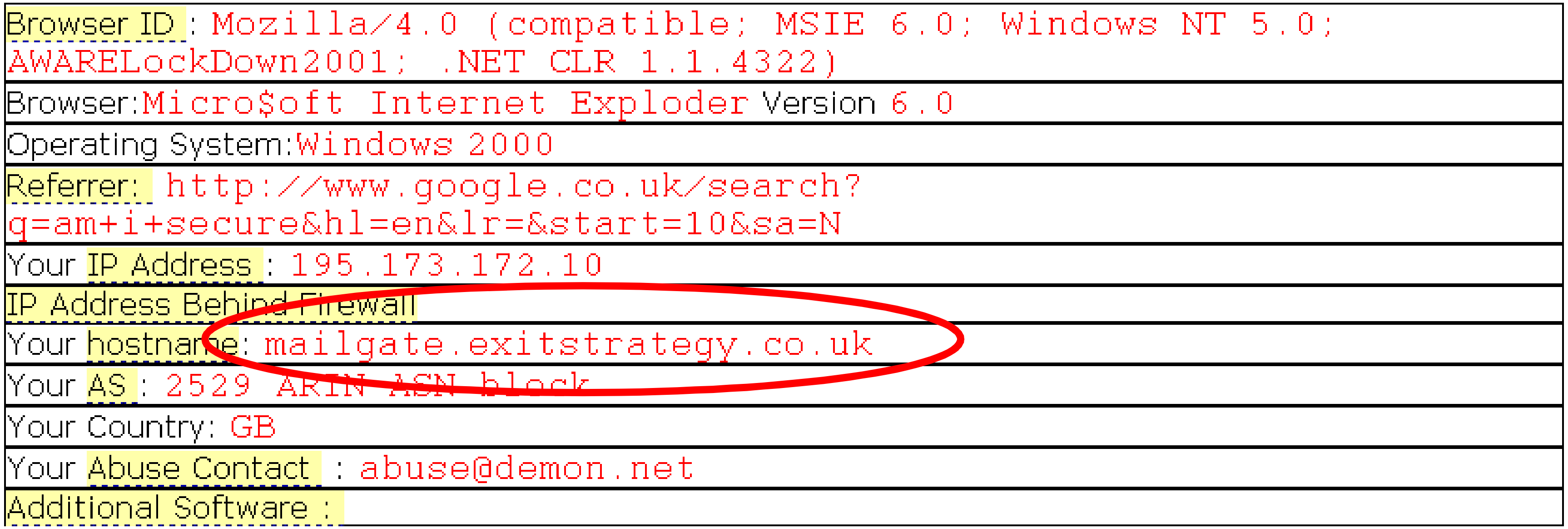
Usage Statistics wwwave.org - September 2003
4, 40, 2.31%, 31, 2.49%, 326, 3.91%, 4, 0.72%, **195.173.172.10**. 5, 38, 2.19%, 0, 0.00%, 8, 0.09%, 0, 0.00%, 66.196.65.37 **...**
www.wwwave.org/logs/usage_200309.html - 107k - Cached - Similar pages

MAKE EM LAUGH - Queen's Royal Hussars Bulletin Board
IP: **195.173.172.10**. Gordon E Glazebrook Member. Posts: 345 From:UK **...** IP: **195.173.172.10**. John Foster Member. Posts: 82 From:Catterick North Yorkshire **...**
bb.qrh.org.uk/Forum1/HTML/000305-9.html - 85k - Cached - Similar pages

195.173.172.10
UnhappyTummy. (). 09/06/04 11:42 PM. Re: I need some love.. Hello! *** Lots and lots of hugs *** I'm so sorry you are feeling so lonely **...**
www.helpforibs.com/messageboards/ubbthreads/ printthread.php?Board=livingroom&main=104211&type=post -

Colin Ehren
candse@gmail.com

Compromise Issues



Browser ID : Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; AWARELockDown2001; .NET CLR 1.1.4322)
Browser:Micro$oft Internet Exploder Version 6.0
Operating System:Windows 2000
Referrer: http://www.google.co.uk/search?q=am+i+secure&hl=en&lr=&start=10&sa=N
Your IP Address : 195.173.172.10
IP Address Behind Firewall
Your hostname: mailgate.exitstrategy.co.uk
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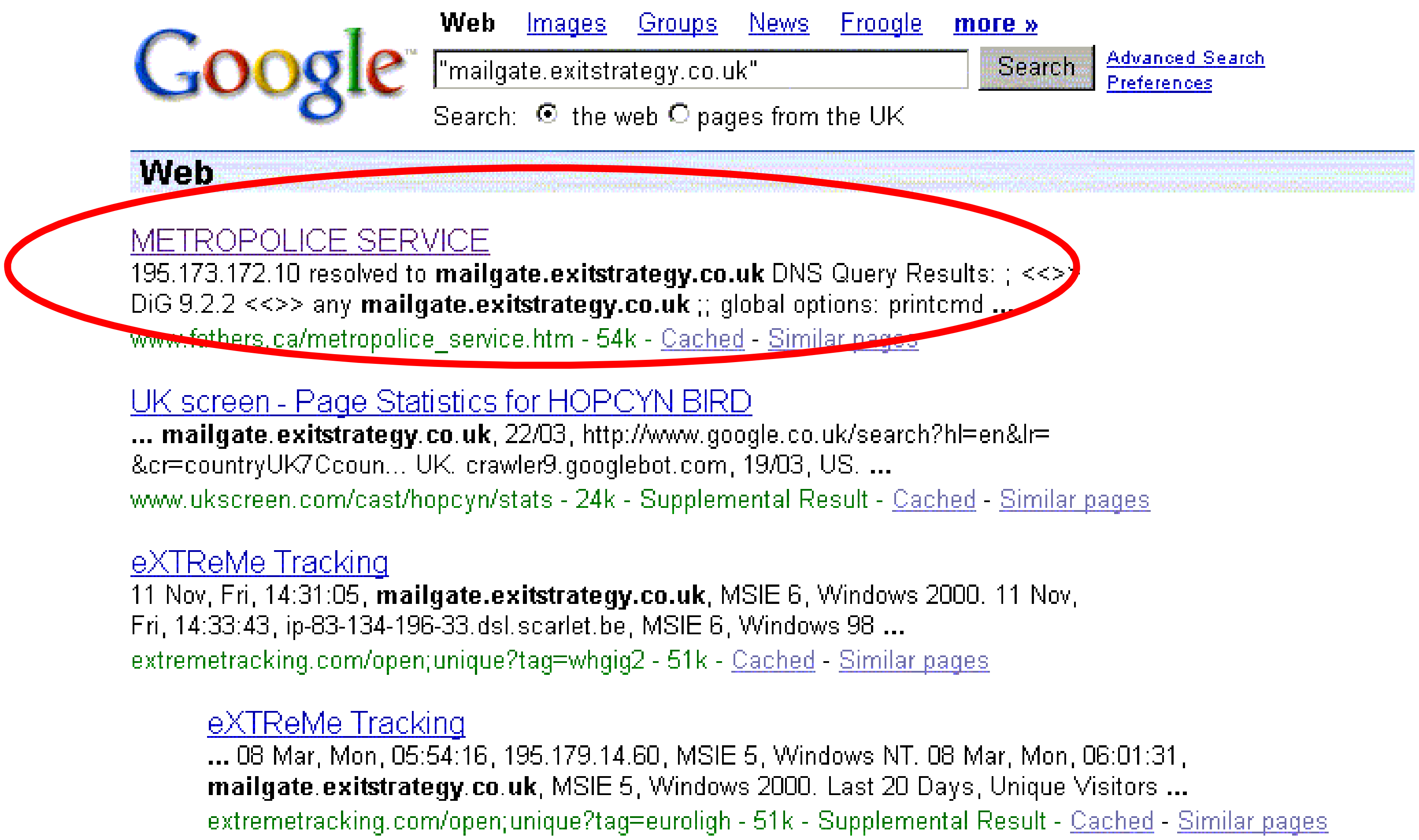

"mailgate.exitstrategy.co.uk"

Search: ● the web ○ pages from the UK

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195.173.172.10 resolved to **mailgate.exitstrategy.co.uk** DNS Query Results: ; <<>>
DiG 9.2.2 <<>> any **mailgate.exitstrategy.co.uk** ;; global options: printcmd **...**
www.fathers.ca/metropolice_service.htm - 54k - Cached - Similar pages

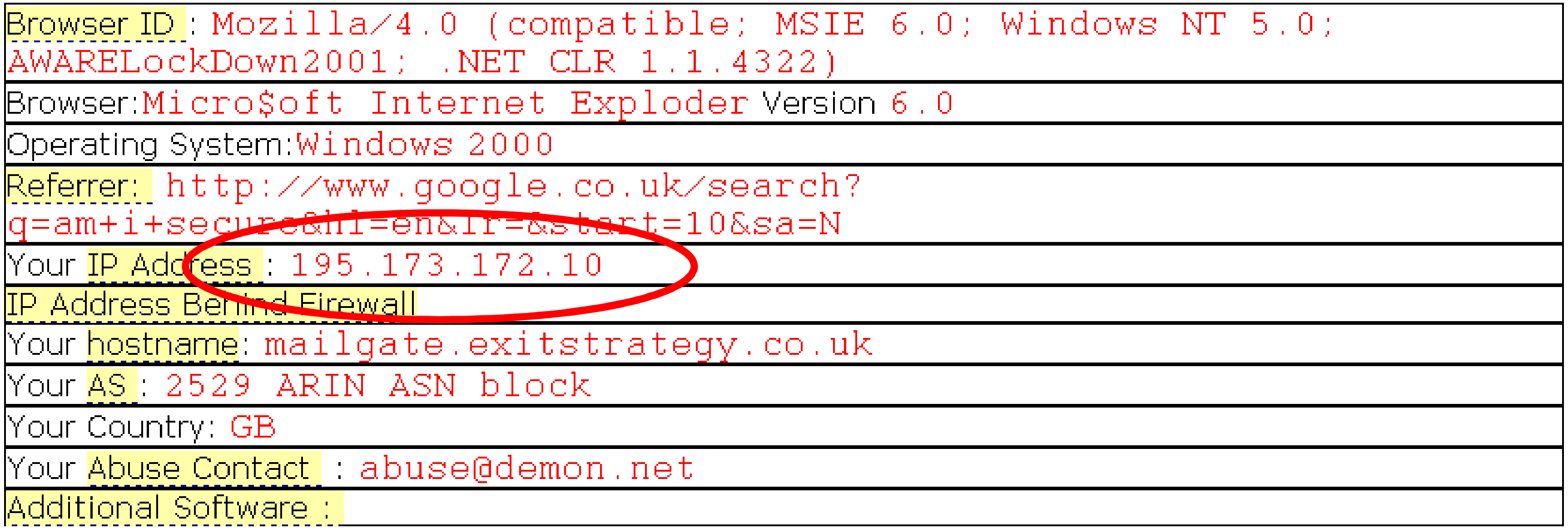
UK screen - Page Statistics for HOPCYN BIRD
... mailgate.exitstrategy.co.uk, 22/03, http://www.google.co.uk/search?hl=en&lr=
&cr=countryUK7Ccoun... UK. crawler9.googlebot.com, 19/03, US. **...**
www.ukscreen.com/cast/hopcyn/stats - 24k - Supplemental Result - Cached - Similar pages

eXTReMe Tracking
11 Nov, Fri, 14:31:05, **mailgate.exitstrategy.co.uk**, MSIE 6, Windows 2000. 11 Nov,
Fri, 14:33:43, ip-83-134-196-33.dsl.scarlet.be, MSIE 6, Windows 98 **...**
extremetracking.com/open;unique?tag=whgig2 - 51k - Cached - Similar pages

eXTReMe Tracking
... 08 Mar, Mon, 05:54:16, 195.179.14.60, MSIE 5, Windows NT. 08 Mar, Mon, 06:01:31,
mailgate.exitstrategy.co.uk, MSIE 5, Windows 2000. Last 20 Days, Unique Visitors **...**
extremetracking.com/open;unique?tag=euroligh - 51k - Supplemental Result - Cached - Similar pages

Colin Ehren
candse@gmail.com

Compromise Issues



Browser ID : Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.0; AWARELockDown2001; .NET CLR 1.1.4322)

Browser:Micro$oft Internet Exploder Version 6.0

Operating System:Windows 2000

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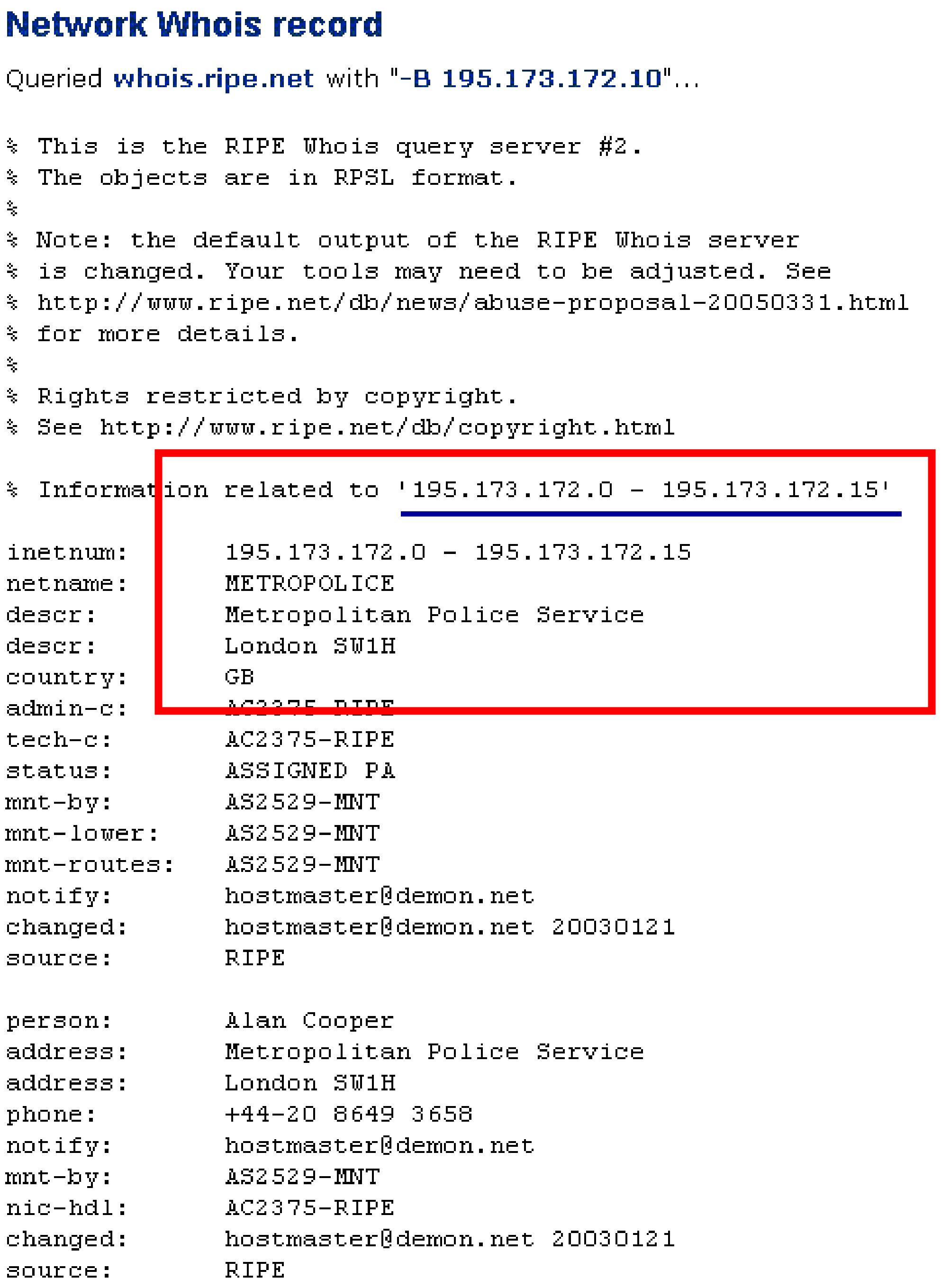


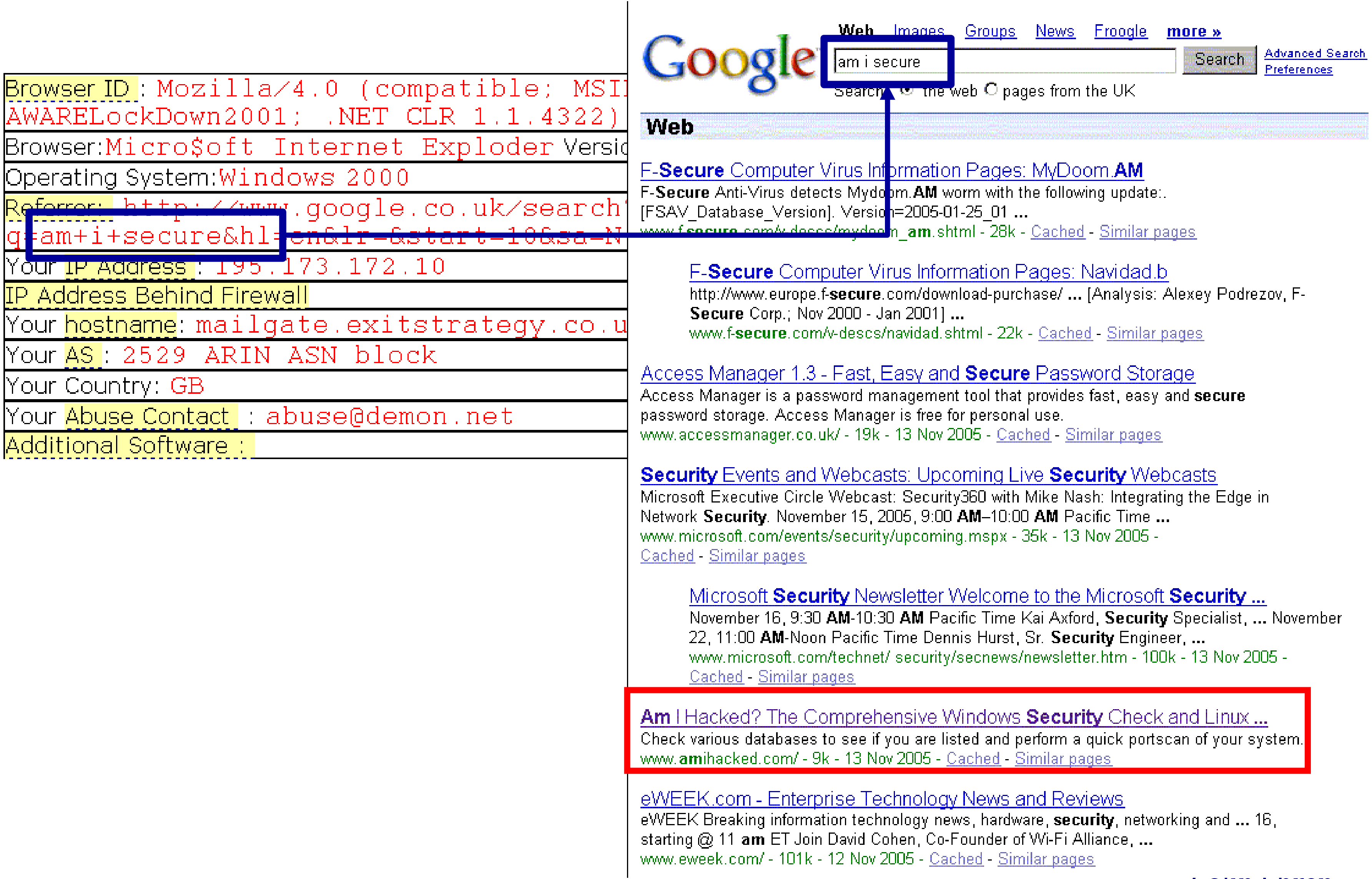
Network Whois record

Queried **whois.ripe.net** with "**-B 195.173.172.10**"...

```
% This is the RIPE Whois query server #2.
% The objects are in RPSL format.
%
% Note: the default output of the RIPE Whois server
% is changed. Your tools may need to be adjusted. See
% http://www.ripe.net/db/news/abuse-proposal-20050331.html
% for more details.
%
% Rights restricted by copyright.
% See http://www.ripe.net/db/copyright.html

% Information related to '195.173.172.0 - 195.173.172.15'

inetnum:        195.173.172.0 - 195.173.172.15
netname:        METROPOLICE
descr:          Metropolitan Police Service
descr:          London SW1H
country:        GB
admin-c:        AC2375-RIPE
tech-c:         AC2375-RIPE
status:         ASSIGNED PA
mnt-by:         AS2529-MNT
mnt-lower:      AS2529-MNT
mnt-routes:     AS2529-MNT
notify:         hostmaster@demon.net
changed:        hostmaster@demon.net 20030121
source:         RIPE

person:         Alan Cooper
address:        Metropolitan Police Service
address:        London SW1H
phone:          +44-20 8649 3658
notify:         hostmaster@demon.net
mnt-by:         AS2529-MNT
nic-hdl:        AC2375-RIPE
changed:        hostmaster@demon.net 20030121
source:         RIPE
```

GovRisk
The International Governance & Risk Institute

Compromise Issues



Browser ID : Mozilla/4.0 (compatible; MSII AWARELockDown2001; .NET CLR 1.1.4322)

Browser:Micro$oft Internet Exploder Versio

Operating System:Windows 2000

Referrer: http://www.google.co.uk/search? q=am+i+secure&hl=en&lr=&start=10&sa=N

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Your Country: GB

Your Abuse Contact : abuse@demon.net

Additional Software :

am i secure

Search: ● the web ○ pages from the UK

Web

F-Secure Computer Virus Information Pages: MyDoom.AM
F-Secure Anti-Virus detects Mydoom.AM worm with the following update:. [FSAV_Database_Version]. Version=2005-01-25_01 ...
www.f-secure.com/v-descs/mydoom_am.shtml - 28k - Cached - Similar pages

F-Secure Computer Virus Information Pages: Navidad.b
http://www.europe.f-secure.com/download-purchase/ ... [Analysis: Alexey Podrezov, F-Secure Corp.; Nov 2000 - Jan 2001] ...
www.f-secure.com/v-descs/navidad.shtml - 22k - Cached - Similar pages

Access Manager 1.3 - Fast, Easy and Secure Password Storage
Access Manager is a password management tool that provides fast, easy and secure password storage. Access Manager is free for personal use.
www.accessmanager.co.uk/ - 19k - 13 Nov 2005 - Cached - Similar pages

Security Events and Webcasts: Upcoming Live Security Webcasts
Microsoft Executive Circle Webcast: Security360 with Mike Nash: Integrating the Edge in Network Security. November 15, 2005, 9:00 AM–10:00 AM Pacific Time ...
www.microsoft.com/events/security/upcoming.mspx - 35k - 13 Nov 2005 - Cached - Similar pages

Microsoft Security Newsletter Welcome to the Microsoft Security ...
November 16, 9:30 AM-10:30 AM Pacific Time Kai Axford, Security Specialist, ... November 22, 11:00 AM-Noon Pacific Time Dennis Hurst, Sr. Security Engineer, ...
www.microsoft.com/technet/ security/secnews/newsletter.htm - 100k - 13 Nov 2005 - Cached - Similar pages

Am I Hacked? The Comprehensive Windows Security Check and Linux ...
Check various databases to see if you are listed and perform a quick portscan of your system.
www.amihacked.com/ - 9k - 13 Nov 2005 - Cached - Similar pages

eWEEK.com - Enterprise Technology News and Reviews
eWEEK Breaking information technology news, hardware, security, networking and ... 16, starting @ 11 am ET Join David Cohen, Co-Founder of Wi-Fi Alliance, ...
www.eweek.com/ - 101k - 12 Nov 2005 - Cached - Similar pages

Colin Ehren
candse@gmail.com

Compromise Issues

Beware

Parallel Surfing can associate a Covert or non-attributed PC to the your organisation. Parallel Surfing would occur when the same websites or Search Terms are researched on a Corporate workstation and then those same sites or Search Terms are researched on a Covert or non-attributed workstation.

Webmasters can run reports that identify who has been using the same Search Terms, etc.

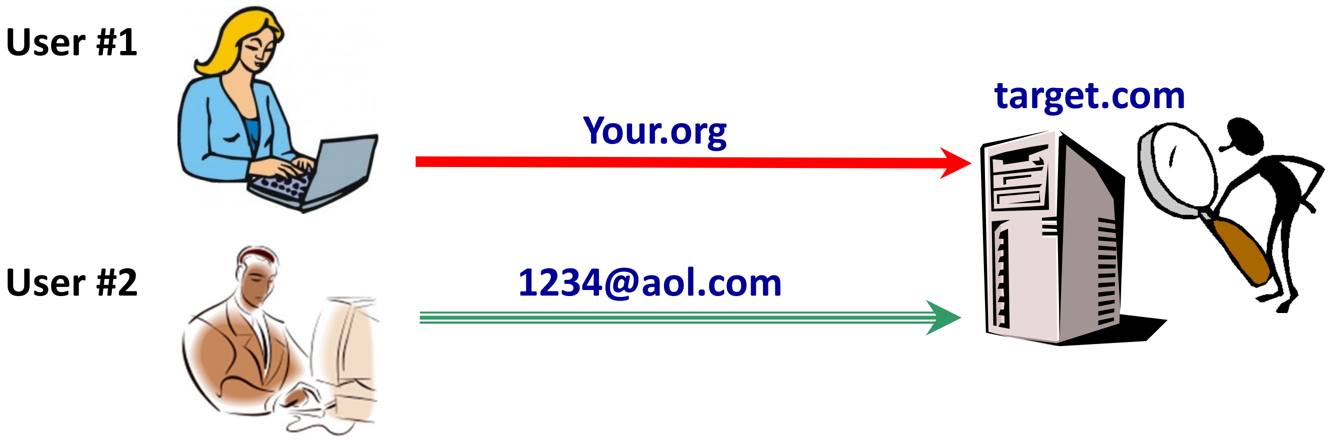
Colin Ehren
candse@gmail.com

Compromise Issues

The “parallel surfing” Problem...

🟥 User #1: leaves “your.org” footprints whilst visiting “target.com”

🟩 User #2: leaves “Covert” footprints whilst visiting “target.com”



User #1

Your.org

target.com

User #2

1234@aol.com

The “Covert” User may now be recognized as an “your.org” visitor.

Compromise Issues

195.173.172.10

195.173.172.10

antnicuk

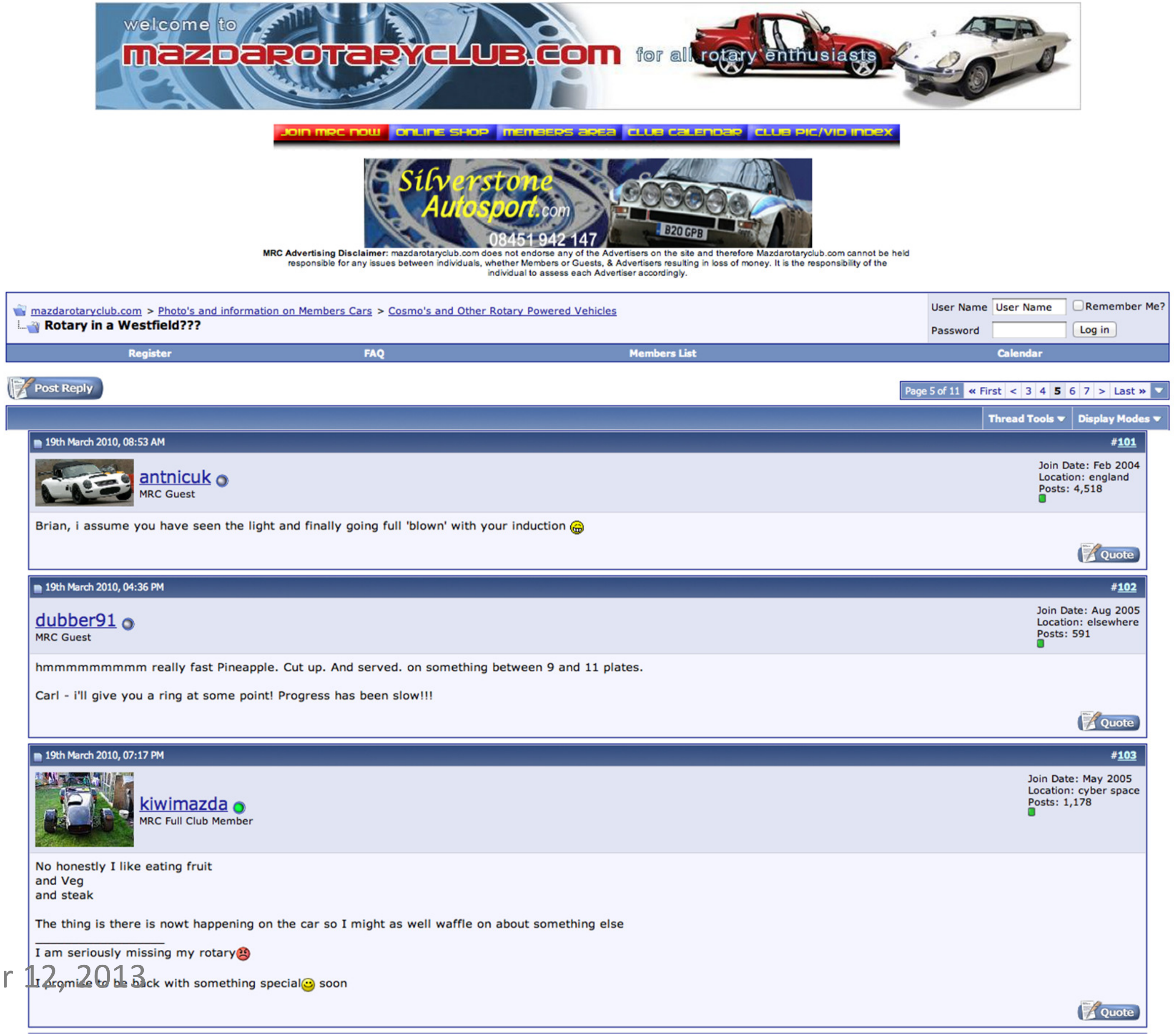
antnicuk@msn.com

antnicuk nicola

192.com

Colin Ehren
candse@gmail.com

Compromise Issues



MRC Advertising Disclaimer: mazdarotaryclub.com does not endorse any of the Advertisers on the site and therefore Mazdarotaryclub.com cannot be held responsible for any issues between individuals, whether Members or Guests, & Advertisers resulting in loss of money. It is the responsibility of the individual to assess each Advertiser accordingly.

mazdarotaryclub.com > Photo's and information on Members Cars > Cosmo's and Other Rotary Powered Vehicles

Rotary in a Westfield???

User Name: User Name □ Remember Me?
Password: Log in

19th March 2010, 08:53 AM #101

antnicuk
MRC Guest

Join Date: Feb 2004
Location: england
Posts: 4,518

Brian, i assume you have seen the light and finally going full 'blown' with your induction 😁

Quote

19th March 2010, 04:36 PM #102

dubber91
MRC Guest

Join Date: Aug 2005
Location: elsewhere
Posts: 591

hmmmmmmmmm really fast Pineapple. Cut up. And served. on something between 9 and 11 plates.

Carl - i'll give you a ring at some point! Progress has been slow!!!

Quote

19th March 2010, 07:17 PM #103

kiwimazda
MRC Full Club Member

Join Date: May 2005
Location: cyber space
Posts: 1,178

No honestly I like eating fruit
and Veg
and steak

The thing is there is nowt happening on the car so I might as well waffle on about something else

____

I am seriously missing my rotary☹

I promise to be back with something special☺ soon

Quote

Compromise Issues

195.173.172.10

195.173.172.10

antnicuk

antnicuk@msn.com

antnicuk nicola

192.com

Compromise Issues

Beware

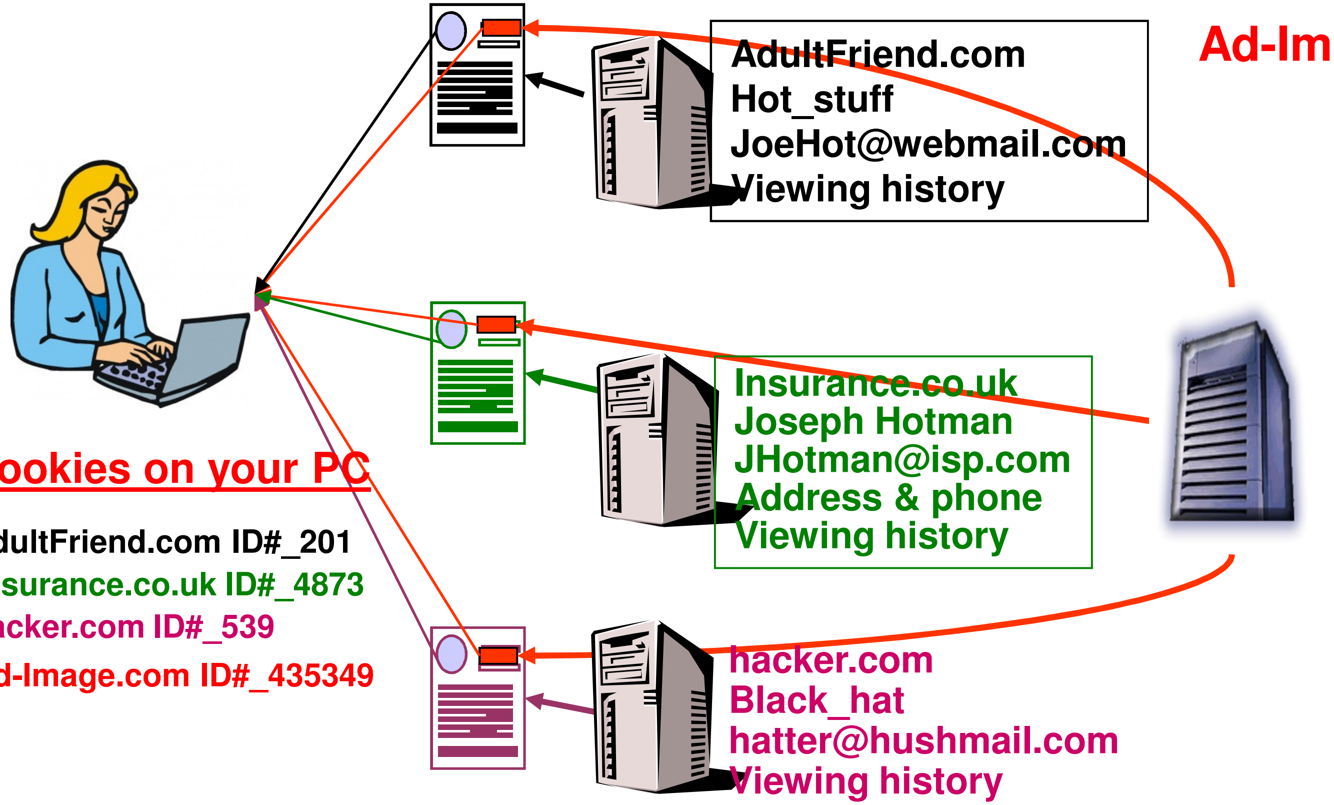
Your footprints are left on every website that you visit. If those websites display adverts or images from 3rd parties, your footprints are sent automatically to them as well.

You do not need to have visited the 3rd party site for them to obtain your information.

Colin Ehren
candse@gmail.com

Compromise Issues

Web pages can include images or adverts from third parties.



Ad-Image.com

AdultFriend.com
Hot_stuff
JoeHot@webmail.com
Viewing history

Insurance.co.uk
Joseph Hotman
JHotman@isp.com
Address & phone
Viewing history

hacker.com
Black_hat
hatter@hushmail.com
Viewing history

Cookies on your PC

AdultFriend.com ID#_201
insurance.co.uk ID#_4873
hacker.com ID#_539
Ad-Image.com ID#_435349

Your Profile

AdultFriend.com
Hot_stuff
JoeHot@webmail.com
Viewing history
Likes / Dislikes

Insurance.co.uk
Joseph Hotman
JHotman@isp.com
Address & phone
Car / Jewellry
Viewing history

hacker.com
Black_hat
hatter@hushmail.com
Viewing history
Contacts

Companies, such as “Ad-Image.com” are able to compile a significant profile on you and your surfing habits, which they are able to trade or sell to their partners or customers.

Compromise Issues

90
ACLU
AMERICAN CIVIL LIBERTIES UNION
90 YEARS OF PROTECTING YOUR LIBERTY

Ordering Pizza?

September 12, 2013

Colin Ehren
candse@gmail.com

GovRisk
The International Governance & Risk Institute

Automating Collusion Detection & Combining Manual and Automated Bid Analyses

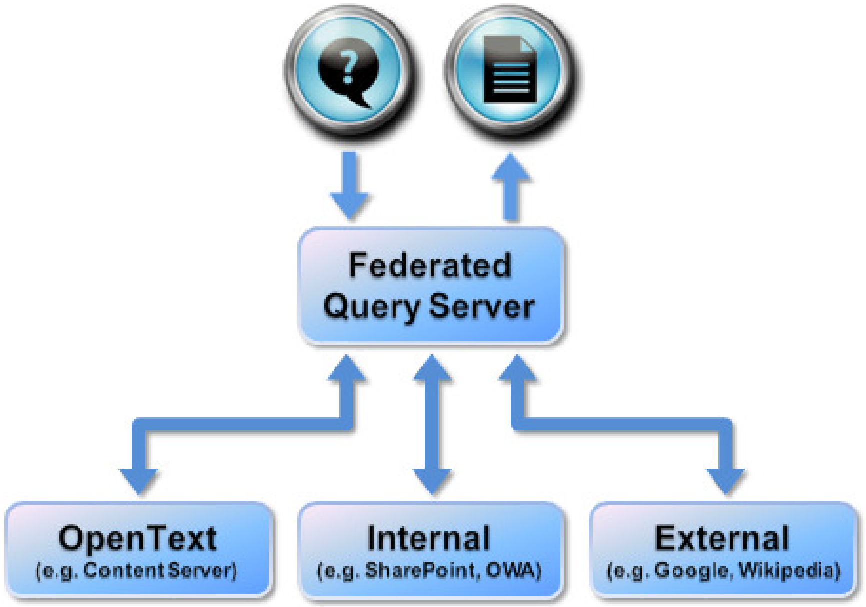
September 12, 2013

Colin Ehren
candse@gmail.com

Search Automation

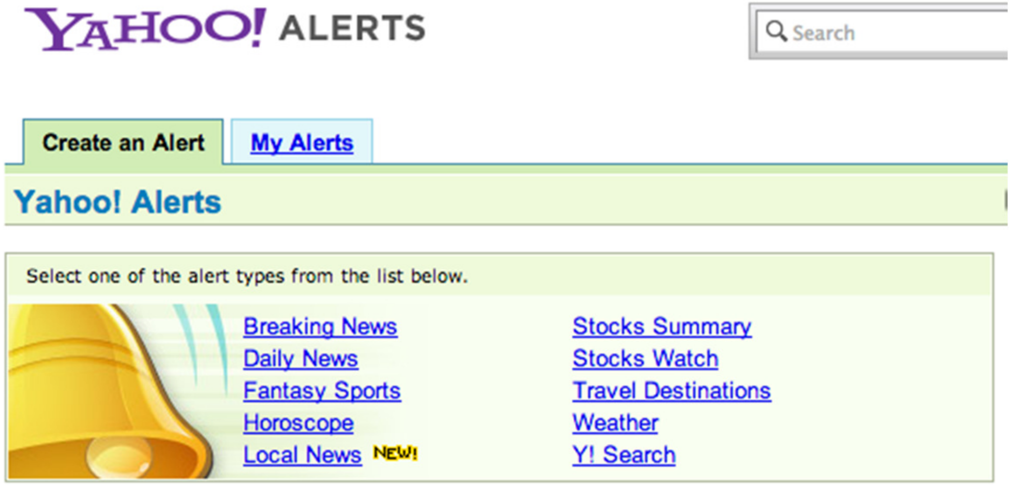
Query Servers

- Integrated Solution
- Live Queries
- Automated Queries
- Builds own Database
- Expensive



Colin Ehren
candse@gmail.com

Search Engine Alerts



YAHOO! ALERTS

Search

Create an Alert | My Alerts

Yahoo! Alerts

Select one of the alert types from the list below.

- Breaking News
- Daily News
- Fantasy Sports
- Horoscope
- Local News NEW!
- Stocks Summary
- Stocks Watch
- Travel Destinations
- Weather
- Y! Search

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Data Extraction Tools

WebHarvy

Automation Anywhere

WebDataExtractor

Data Toolbar
The world easiest data scraping tool

Visual Web Ripper

mozenda™

Web-Harvest
version 2.0

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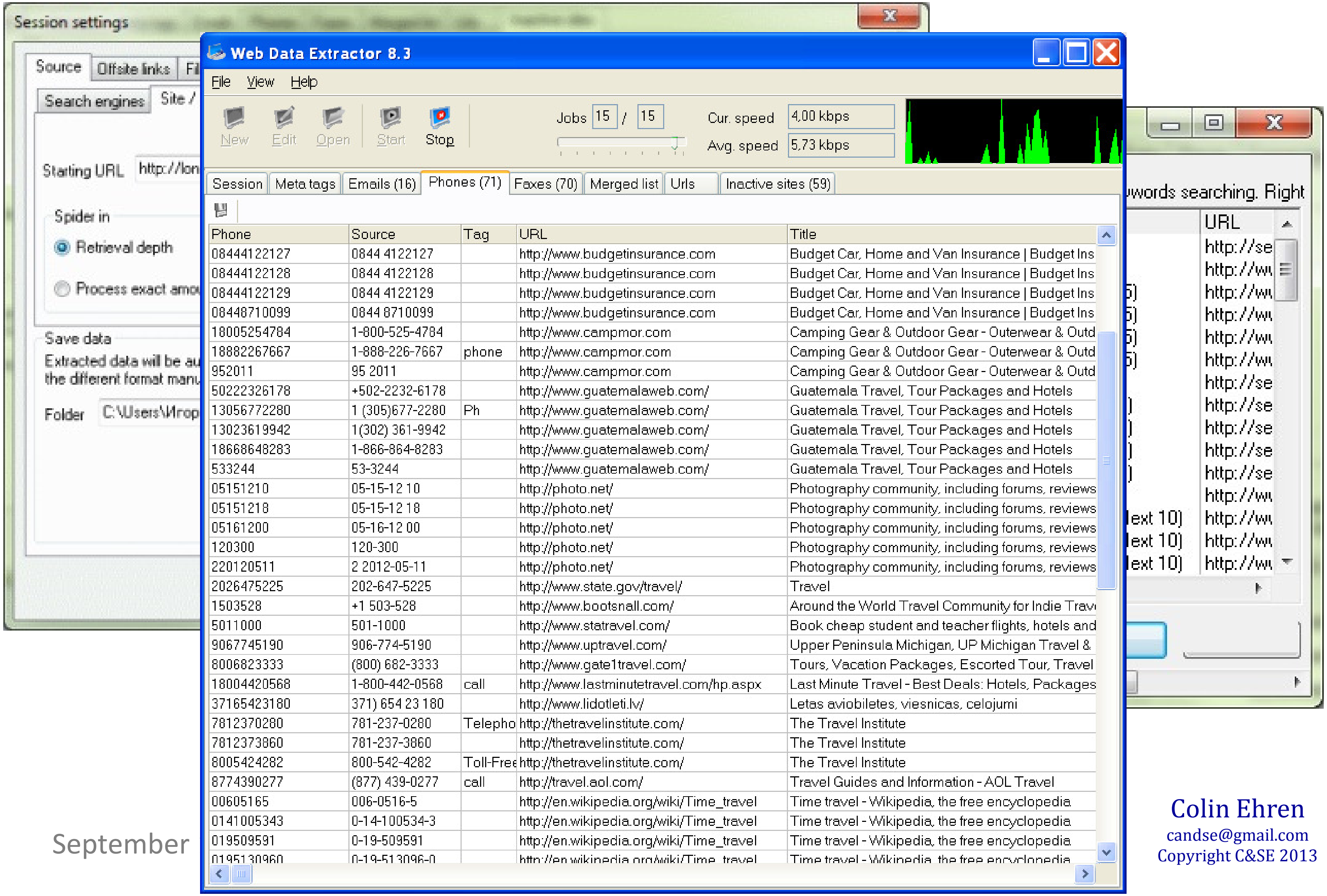
Colin Ehren
candse@gmail.com

Web Data Extractor



Starting URL http://lon

○ Retrieval depth

○ Process exact amo

Extracted data will be au
the different format manu

Folder C:\Users\Vrop

Jobs 15 / 15

Cur. speed 4,00 kbps

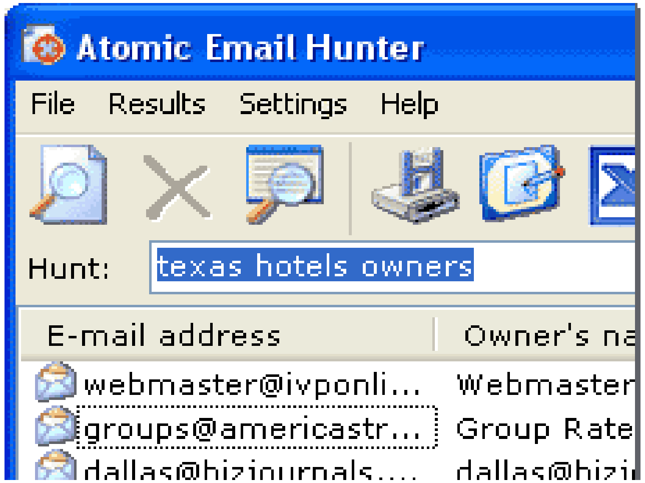
Avg. speed 5,73 kbps

Phone	Source	Tag	URL	Title
08444122127	0844 4122127		http://www.budgetinsurance.com	Budget Car, Home and Van Insurance | Budget Ins
08444122128	0844 4122128		http://www.budgetinsurance.com	Budget Car, Home and Van Insurance | Budget Ins
08444122129	0844 4122129		http://www.budgetinsurance.com	Budget Car, Home and Van Insurance | Budget Ins
08448710099	0844 8710099		http://www.budgetinsurance.com	Budget Car, Home and Van Insurance | Budget Ins
18005254784	1-800-525-4784		http://www.campmor.com	Camping Gear & Outdoor Gear - Outerwear & Outd
18882267667	1-888-226-7667	phone	http://www.campmor.com	Camping Gear & Outdoor Gear - Outerwear & Outd
952011	95 2011		http://www.campmor.com	Camping Gear & Outdoor Gear - Outerwear & Outd
50222326178	+502-2232-6178		http://www.guatemalaweb.com/	Guatemala Travel, Tour Packages and Hotels
13056772280	1 (305)677-2280	Ph	http://www.guatemalaweb.com/	Guatemala Travel, Tour Packages and Hotels
13023619942	1(302) 361-9942		http://www.guatemalaweb.com/	Guatemala Travel, Tour Packages and Hotels
18668648283	1-866-864-8283		http://www.guatemalaweb.com/	Guatemala Travel, Tour Packages and Hotels
533244	53-3244		http://www.guatemalaweb.com/	Guatemala Travel, Tour Packages and Hotels
05151210	05-15-12 10		http://photo.net/	Photography community, including forums, reviews
05151218	05-15-12 18		http://photo.net/	Photography community, including forums, reviews
05161200	05-16-12 00		http://photo.net/	Photography community, including forums, reviews
120300	120-300		http://photo.net/	Photography community, including forums, reviews
220120511	2 2012-05-11		http://photo.net/	Photography community, including forums, reviews
2026475225	202-647-5225		http://www.state.gov/travel/	Travel
1503528	+1 503-528		http://www.bootsnall.com/	Around the World Travel Community for Indie Trav
5011000	501-1000		http://www.statravel.com/	Book cheap student and teacher flights, hotels and
9067745190	906-774-5190		http://www.uptravel.com/	Upper Peninsula Michigan, UP Michigan Travel &
8006823333	(800) 682-3333		http://www.gate1travel.com/	Tours, Vacation Packages, Escorted Tour, Travel
18004420568	1-800-442-0568	call	http://www.lastminutetravel.com/hp.aspx	Last Minute Travel - Best Deals: Hotels, Packages
37165423180	371) 654 23 180		http://www.lidotleti.lv/	Letas aviobiletes, viesnicas, celojumi
7812370280	781-237-0280	Telepho	http://thetravelinstitute.com/	The Travel Institute
7812373860	781-237-3860		http://thetravelinstitute.com/	The Travel Institute
8005424282	800-542-4282	Toll-Free	http://thetravelinstitute.com/	The Travel Institute
8774390277	(877) 439-0277	call	http://travel.aol.com/	Travel Guides and Information - AOL Travel
00605165	006-0516-5		http://en.wikipedia.org/wiki/Time_travel	Time travel - Wikipedia, the free encyclopedia
0141005343	0-14-100534-3		http://en.wikipedia.org/wiki/Time_travel	Time travel - Wikipedia, the free encyclopedia
019509591	0-19-509591		http://en.wikipedia.org/wiki/Time_travel	Time travel - Wikipedia, the free encyclopedia
0195130960	0-19-513096-0		http://en.wikipedia.org/wiki/Time_travel	Time travel - Wikipedia, the free encyclopedia

Data Extraction Tools

AtomPark Software

- Atomic E-Mail Hunter
- Atomic Web Spider
- Atomic Whois Explorer
- Atomic Newsgroup Explorer
- Atomic E-Mail Studio



Hunt: texas hotels owners

E-mail address	Owner's na
webmaster@ivponli...	Webmaster
groups@americastr...	Group Rate
dallas@bizjournals....	dallas@bizi

Colin Ehren
candse@gmail.com

Assimilation of Data

Huge data volumes

- Petabytes of data (1 Petabyte (1000 terabytes) = approx 3000 million documents

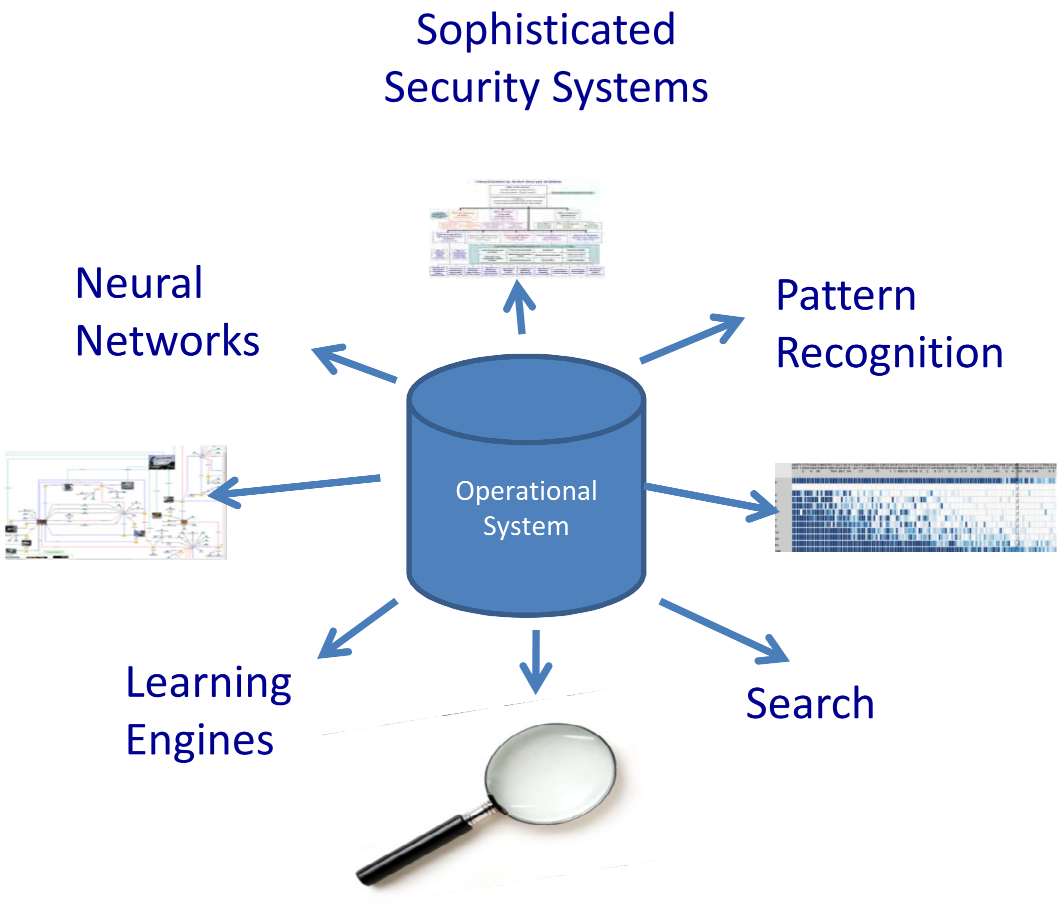
Diverse sources

- The Internet – www, blogs, twitter, social networks, virtual worlds, chat-rooms
- Internal – E-mail, Office Systems, Knowledge Management and Analyst Reports
- Computers, storage devices, mobile phones

Integration of data

- Multiple formats
  - Structured, unstructured (text)
  - Languages / alphabets
- Organisationally
  - Across departments
  - Across boundaries (different legislation)
  - Between organisations

Traditional Software



Sophisticated Security Systems

Neural Networks

Pattern Recognition

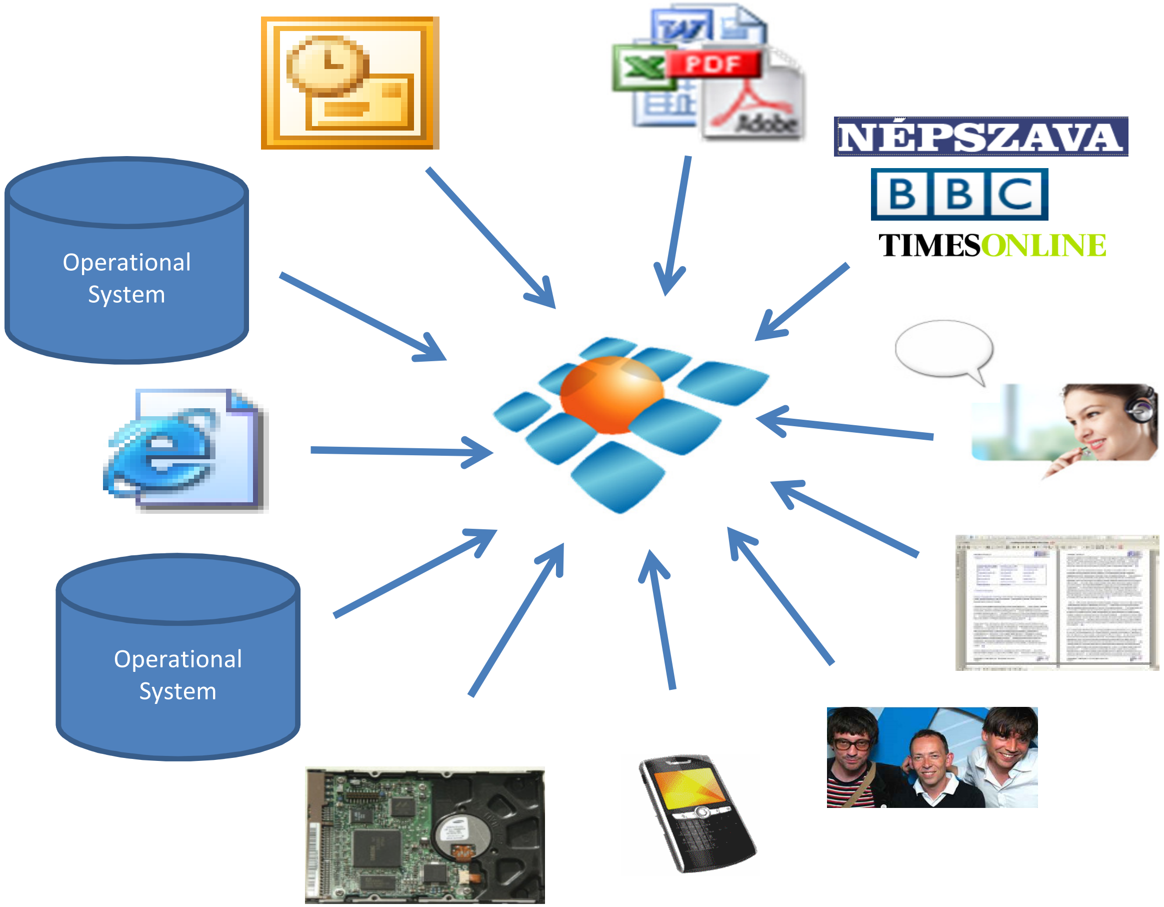
Operational System

Learning Engines

Search

Data traditionally held in isolated silos

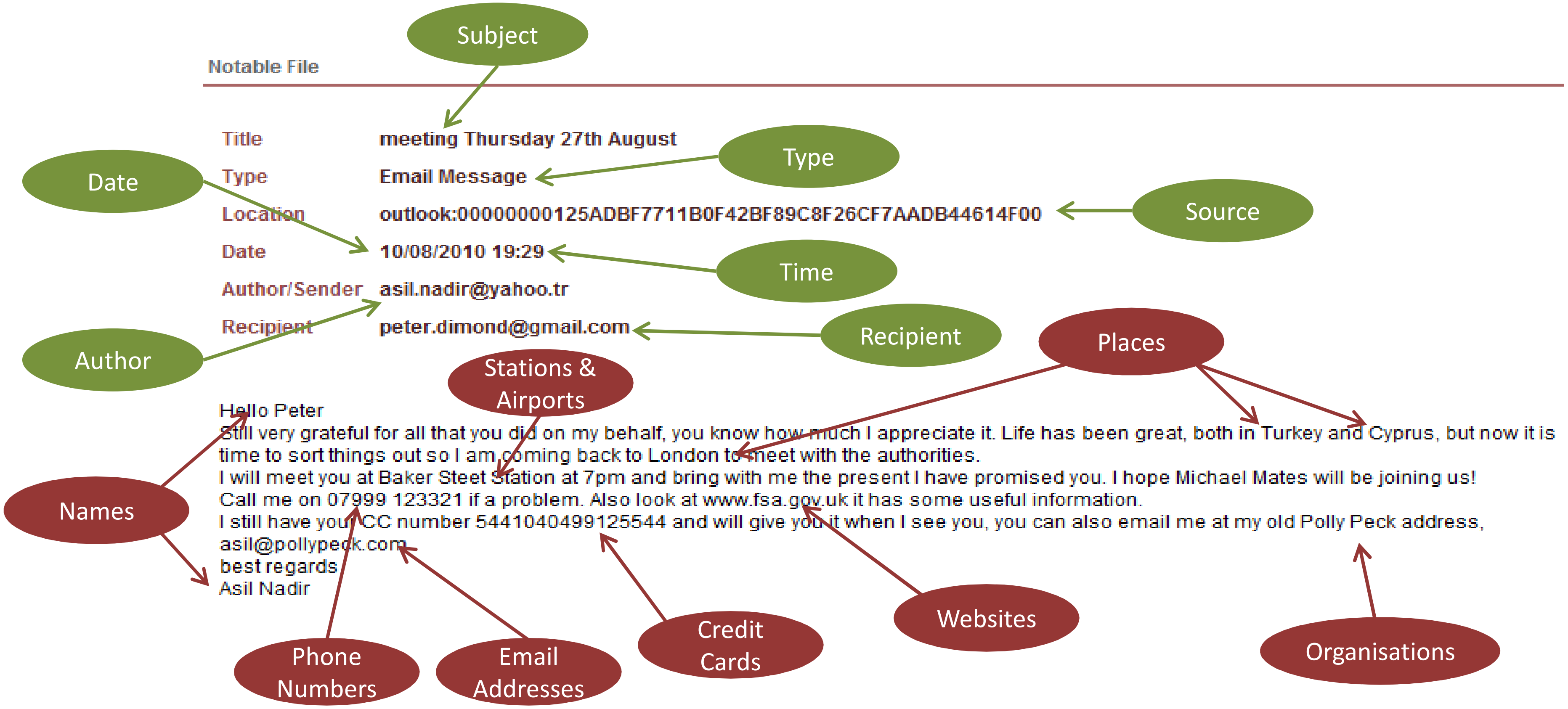
Next Generation Software



Integration of all types of data

Next Generation Software

Entity Abstraction



Notable File

Title	meeting Thursday 27th August
Type	Email Message
Location	outlook:00000000125ADBF7711B0F42BF89C8F26CF7AADB44614F00
Date	10/08/2010 19:29
Author/Sender	asil.nadir@yahoo.tr
Recipient	peter.dimond@gmail.com

Hello Peter
Still very grateful for all that you did on my behalf, you know how much I appreciate it. Life has been great, both in Turkey and Cyprus, but now it is time to sort things out so I am coming back to London to meet with the authorities.
I will meet you at Baker Steet Station at 7pm and bring with me the present I have promised you. I hope Michael Mates will be joining us!
Call me on 07999 123321 if a problem. Also look at www.fsa.gov.uk it has some useful information.
I still have your CC number 5441040499125544 and will give you it when I see you, you can also email me at my old Polly Peck address,
asil@pollypeck.com
best regards
Asil Nadir

September 12, 2013

Colin Ehren
candse@gmail.com

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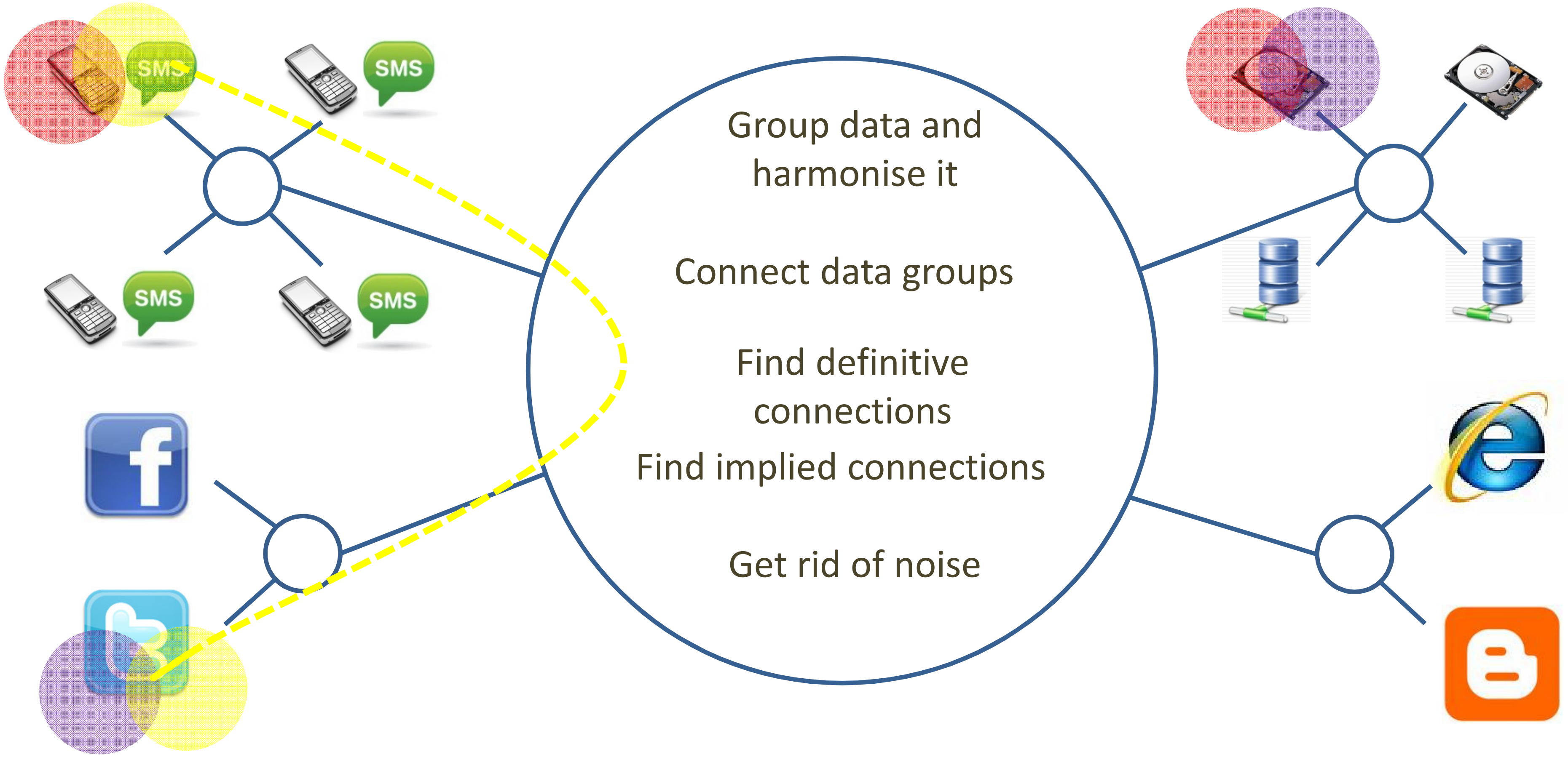
Next Generation Software

Links and Relationships



Group data and harmonise it

Connect data groups

Find definitive connections

Find implied connections

Get rid of noise

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Colin Ehren
candse@gmail.com

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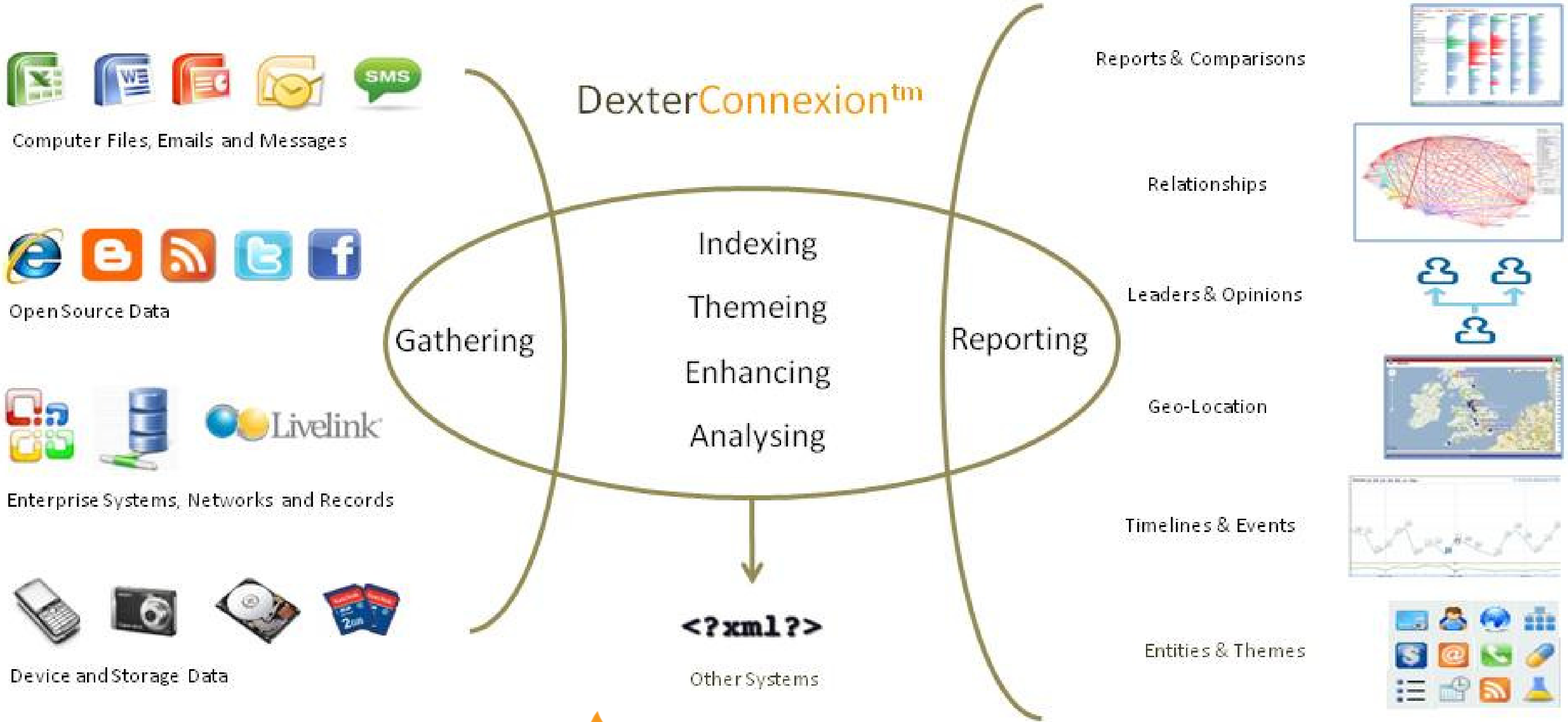
Information Discovery Platform



Computer Files, Emails and Messages

Open Source Data

Enterprise Systems, Networks and Records

Device and Storage Data

DexterConnexion™

Gathering

Indexing

Themeing

Enhancing

Analysing

Reporting

<?xml?>

Other Systems

Reports & Comparisons

Relationships

Leaders & Opinions

Geo-Location

Timelines & Events

Entities & Themes

dexter
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http://www.dexterintel.com/

September 12, 2013

Colin Ehren
candse@gmail.com

Any Questions?

The International Governance & Risk Institute

Use of Technology to Detect Collusive Practices

Colin Ehren
Managing Partner, C&SE

candse@gmail.com
+44 (0)7941 338 449

Tackling Corruption and Collusion in Public Procurement: Latin America and the Caribbean

September 12, 2013

Panama City, 2013