EMERGING TRENDS AND ISSUES
OPEN SOURCE INTELLIGENCE (OSINT) ONLINE AND FRAUD

Open sources go far beyond what is available in Google, Facebook, and other popular sites. This session will look beyond the obvious social networks and similar media to locate assets, discover leaks, protect reputations, track down anonymous users, and expand the arsenal of resources available, but unknown to the fraud professional. In addition, the obvious pitfalls that most fraud professionals fall into when investigating using these new mediums—what they are missing, where they are exposing themselves, and how to investigate discreetly online—are all covered.

CYNTHIA HETHERINGTON, CFE
President
The Hetherington Group
Wayne, NJ

Cynthia Hetherington has more than 17 years of experience in research, investigations, and corporate intelligence. She is the founder of Hetherington Group, a consulting, publishing, and training firm focusing on intelligence, security, and investigations. A widely published author, Cynthia authored *Business Background Investigations* (2007) and the *Manual to Online Public Records* (2008). She is the publisher of *Data2know.com: Internet & Online Intelligence Newsletter*, and has co-authored articles on steganography, computer forensics, Internet investigations, and other security-focused monographs. She is also recognized for providing corporate security officials; military intelligence units; and federal, state, and local agencies with training on online intelligence practices.

Social Media and Online Due Diligence

OSINT Online

Cynthia Hetherington
Hetheringtongroup.com

Social Media and Online Due Diligence

Cynthia is a…

- Librarian
- Analyst
- Security Practitioner
- Investigator
- Author of:
  - Business Background Investigators
  - The Manual to Online Public Records
  - Web of Deceit
  - Data2Know.com: Internet & Online Intelligence Newsletter

Social Media and Online Due Diligence

Online Investigative Scenarios

- **Security:** Watching protestors online.
- **Loss Prevention:** Locate goods in craigslist.com and intellectual property on Myspace.com
- **Competitive Intelligence:** Google.com - confidential <company name> filetype:ppt
- **Opposition Research:** Grab Form 990's on your non-profits
- **Asset Forfeiture:** Getting divorced? Funding Terror? Hunting fraudsters?
- **Due Diligence:** Conduct due diligence quickly and cheaply.
- **Criminal Actions:** Trace cellphone, PO Box & elusive email.

Social Media and Online Due Diligence

The law

- Legal issues are best covered with your legal counsel.
- The law varies depending on your purpose:
  - Hiring
  - Investigations
  - Vetting
    - In Germany an employer can look at Linkedin, but not Facebook for hiring.
- There really are no definitive rules on investigating in Social Networks anywhere on the planet.

Social Media and Online Due Diligence

Open Sources

Social Media and Online Due Diligence

Public Records

- Litigation history
- Media history
- Business & personal affiliations
- SEC filings
- Corporate records
- Regulatory history
- Property records
- Academic records
- Financial records
- Vendor & supplier relationships
- Board appointments
- Liens, Judgments & UCCs
- Subsidiaries & franchises
- Physical assets
- Intellectual property
- Political & charitable causes

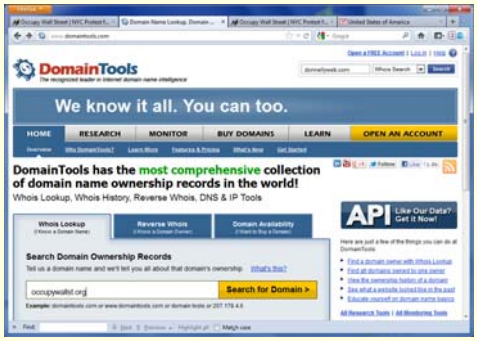
Depending on the country public records do exist but are not as readily available or legal to obtain.

Social Media and Online Due Diligence

What can we look at in open source?

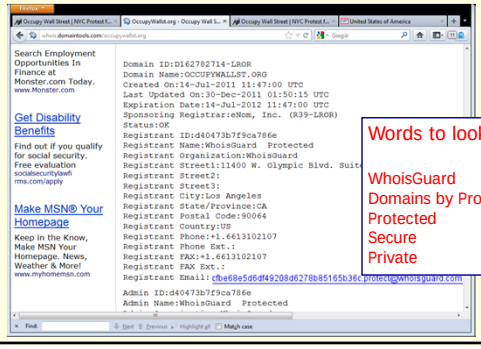
Social Media and Online Due Diligence

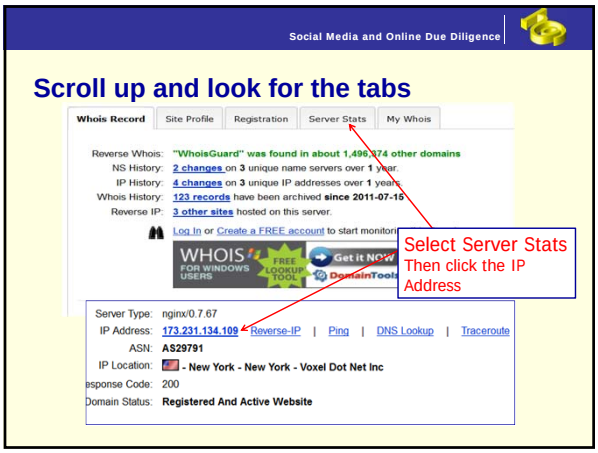
Domaintools.com

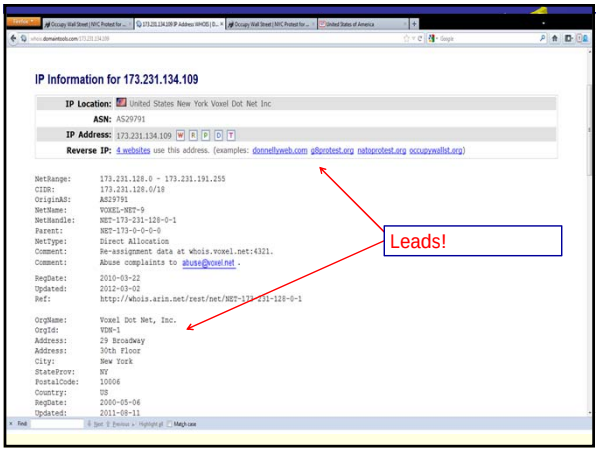


Social Media and Online Due Diligence

Proxy'ed Domain




Social Media and Online Due Diligence
Scroll up and look for the tabs
Whois Record
Site Profile
Registration
Server Stats
My Whois
Reverse Whois: "WhoisGuard" was found in about 1,496,174 other domains
NS History: 2 changes on 3 unique name servers over 1 year.
IP History: 4 changes on 3 unique IP addresses over 1 years
Whois History: 123 records have been archived since 2011-07-15
Reverse IP: 3 other sites hosted on this server.
Log In or Create a FREE account to start monitori
Server Type: nginx/0.7.67
IP Address: 173.231.134.109 Reverse-IP | Ping | DNS Lookup | Traceroute
ASN: AS29791
IP Location: - New York - New York - Voxel Dot Net Inc
Domain Status: Registered And Active Website
Select Server Stats
Then click the IP
Address


IP Information for 173.231.134.109
IP Location: United States New York Voxel Dot Net Inc
ASN: AS29791
IP Address: 173.231.134.109
Reverse IP: 4 websites use this address.
Leads!


Social Media and Online Due Diligence
Check out Donnellyweb.com
Registrant:
donnelly, Sean
1 E 35th Street
Apt 5A
Manhattan, NY 10016
US
Domain Name: DONNELLYWEB.COM
Administrative Contact, Technical Contact:
donnelly, Sean
seanbeachfl@hotmail.com
1 E 35th Street
Apt 5A
Manhattan, NY 10016
US
2122138004 fax: 509-471-7617

Social Media and Online Due Diligence

Public Information

- Business profile
- Academic history
- Business connections
- Personal affiliations
- Hobbies
- Sports teams
- Opinions
- Work schedule
- Height, weight, gender
- Travel schedule
- Caffeine or no?
- Intellectual property
- Political & charitable causes
- Photos of yourself, your family and friends
- Videos inside facilities
- Where you are and what you are doing every minute of the day!
- Updates on family events
- Drug habits
- Illnesses
- Sexual preferences

Social Media and Online Due Diligence

No one seems concerned

- Children are posting
  - Predators
- Business Professionals are posting
  - Competitors and Bosses are watching
- Everyone's posting
  - Reality TV meet Reality Blogger

Some examples of over exposure!

Social Media and Online Due Diligence

The Weakest Link

- **Vincent_** "Make everyday the best day of your entire life!!!!"
- Male 24 years old
- Clifton, NEW JERSEY
  Works for Large German Manufacturing Company
- Former Marine

Are those network schematics?

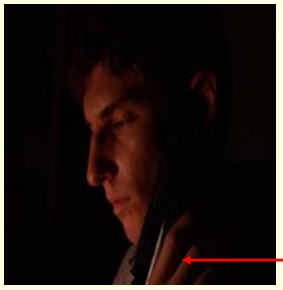
Social Media and Online Due Diligence

Hello?

- **Employed by:**
- Large German Manufacturing Company
  Passaic, NJ, US
  Computer Programmer
  01/04....CURRENT

Social Media and Online Due Diligence

Meet Peter from Happy Family Company



- Male 22 years old
  Los Angeles, CA
- **HFC Feature Animation**
- Burbank, CA, US
- Programmer, Editorial/Post-Production Technical Department
- **Lawrence Livermore National Laboratory**
- Livermore, CA, US
- Computer Programmer Intern, Defense Nuclear Technology
- **Peter's packing!**

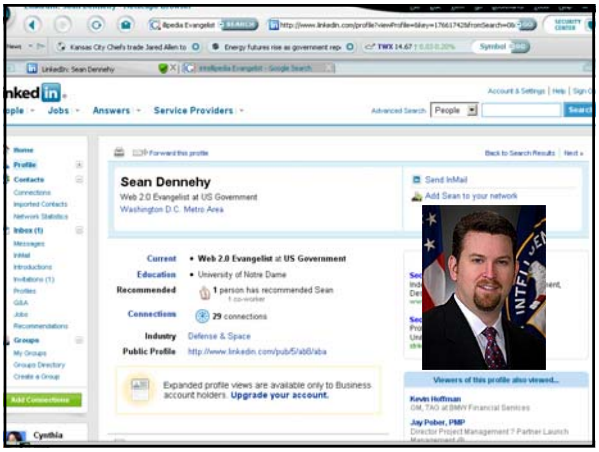
Social Media and Online Due Diligence

Social Network Searches

Social Media and Online Due Diligence

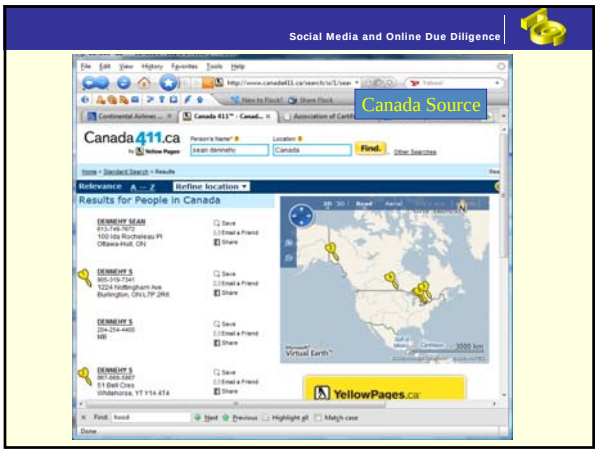
Going beyond Google

- myspace.com
- orkut.com
- technorati.com
- Icerocket.com
- Ebay.com
- Flickr.com
- friendwise.com
- Blogs.com
- lococitato.com
- yoname.com
- youtube.com
- twitter.com
- kiwipulse.co.nz
- Hi5.com
- Feedfinder.com
- Archive.org
- Zoominfo.com
- Xanga.com
- Guidestar.org
- Facebook.com
- Linkedin.com
- Spoke.com
- Spokeo.com
- Match.com
- Cuil.com
- Alt.com
- Bebo.com
- Imeem.com
- Delver.com

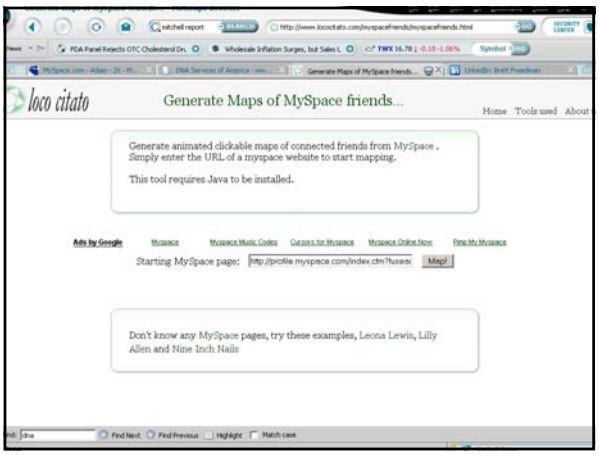


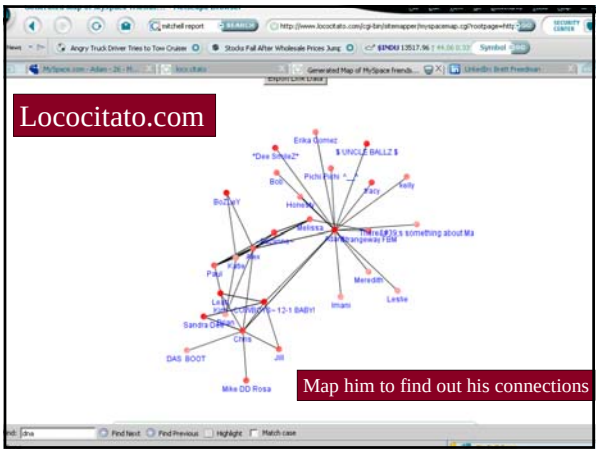
Social Media and Online Due Diligence

Zabasearch.com – US Public Records


Social Media and Online Due Diligence
Canada Source
Canada411.ca
Results for People in Canada
YellowPages.ca


Social Media and Online Due Diligence
Facebook
facebook
Danny Bryant


loco citato
Generate Maps of MySpace friends...
Home Tools used About
Generate animated clickable maps of connected friends from MySpace . Simply enter the URL of a myspace website to start mapping.
This tool requires Java to be installed.
Starting MySpace page:
Map!
Don't know any MySpace pages, try these examples, Leona Lewis, Lilly Allen and Nine Inch Nails

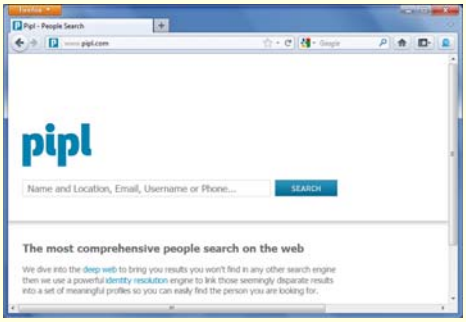


Social Media and Online Due Diligence

Real Time Searches

Social Media and Online Due Diligence

Pipl.com



Social Media and Online Due Diligence

Social Network Searching & Tracking

- Bing.com/social – Any mention on Facebook & Twitter
- Pipl.com – Locate profiles in Social Networks
- Icerocket.com – Twitter and Myspace searches
- Spokeo.com – Search and Track
- Monitter.com – Search and Track Twitter Users
- Yoname.com – Search (email searching notifies the email address you searched)

Social Media and Online Due Diligence

Videos

- Youtube.com
  - You can search directly in the largest network of video material available.
- Video.google.com
  - If you don't have access to Youtube, go to its parent google. In addition to youtube, google captures videos from other feeds, so it's a bigger search!

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Photos

- Photobucket.com
- Picasa.com
- Flickr.com
- Images.google.com and images.bing.com
  - Remember to search by name, company name, username and everything else that identifies that subject.


Social Media and Online Due Diligence
Thank you!
Cynthia Hetherington
Hetherington Group
ch@hetheringtongroup.com
973-706-7525
Join us for a two day Expert Searcher Symposium
June 14th & 15th - Fisherman's Wharf, San Francisco
Details @ Smarteracademy.com