

## **NALS**

### **Marital Issues & Divorces are Fueling Spy Technology Sales**

#### **Faculty:**

**Scott Greene**

**Evidence Solutions, Inc.**

**866-795-7166**

**Scott@EvidenceSolutions.com**



- Almost Everything: from the character of the user to their interests, activities, financial health, acquaintances and more.
- Collected from their life online: applications, email systems, web browsers and free space.
- The details from their life, outlook, intelligence and interactions are as individual as any fingerprint.
- All Public & Private business transactions, communications with accomplices, fraud indicators and much more are frequently available.

### **What can data Forensics Tell Us?**



## Reasons to examine electronic data

- Almost all documents are now 'word processing' documents.
  - Nearly all business activities are now computerized
  - E-mail communications have surpassed telephone and postal ( snail mail ) communication.
  - Text Messages now overshadow E-mail
- 

- All known devices
  - Computers
  - Cell phones
  - Tablets
  - Backup drives

## Getting Started



## Sources of Evidence: Computers

- Hard Disk Drive
  - Hard Drive Image or Mirror Image: This is a bit-by-bit copy of storage media. (i.e., an exact copy of a physical Hard Drive).

## Sources of Evidence Computers

- Computers
  - Email accounts
  - Online storage accounts
  - Digital Faxes
  - Audio / Video files
  - Google Searches ( Sorry Bing )

## Sources of Evidence: Cell Phones


- The Good:
    - They do more for us than ever before!
  - The Bad
    - As they become more complex they take time to analyze
  - The Ugly
    - People know to use and dispose of them
- 

## Capturing Data

- Cell Phone
    - Capture. This is different in that not everything on all cell phones can be copied.
    - Data must be sent to the phone to do the capture.
-

# Portable Sources of Evidence

- Cell Phones & Tablets
  - Text messages
  - Photos?
    - GeoTagging
  - Calendars
  - Phone Books
  - Call Logs
  - Complete information about where the phone has been.....



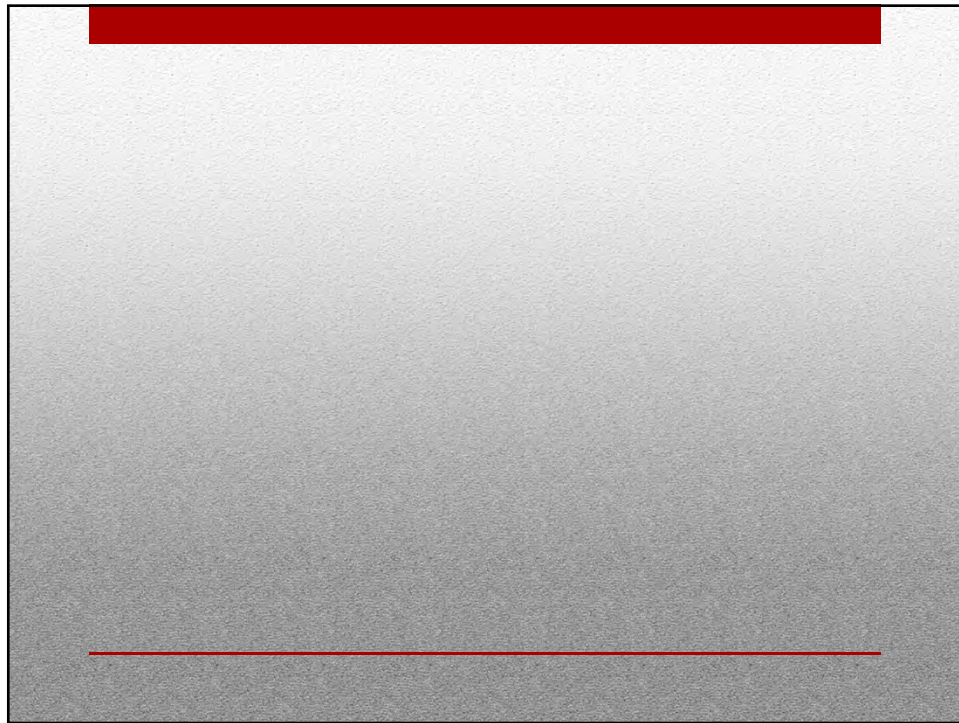
Item	Conn. Date	Conn. Time	Orig. Number	Term. Number	IMEI	Description	Content	Tower Location
1	9/23/2013	11:48	Redacted	Redacted	Redacted	Incoming SMS	Wht up, lookn 4 sum peace tabs or at lest sum oj, u got any?	33.30522, -111.72406
2	9/23/2013	11:49	Redacted	Redacted	Redacted	Outgoing SMS	I'll check, how much do u need?	33.30522, -111.72406
3	9/23/2013	11:50	Redacted	Redacted	Redacted	Incoming SMS	Enough 4 the weeknd, couple grams?	33.30522, -111.72406
4	9/23/2013	11:53	Redacted	Redacted	Redacted	Outgoing SMS	Meet at Pacos in 30?	33.30522, -111.72406
5	9/23/2013	11:54	Redacted	Redacted	Redacted	Incoming SMS	Tight	33.30522, -111.72406

## Sources of Evidence: GPS

- GPS
    - Built into the car
    - Stand alone
    - Yes they can be attached to a car and report back everywhere the car has been
- 

## Social Media

- Complete Downloads
    - All activity
    - All photos
    - All locations
    - etc
-



Other things...


- Ownership
- Invasion of privacy
- Burden
- Time is of the essence

A rectangular area with a grey gradient background. At the top, there is a solid red horizontal bar. Below it, the text "Other things..." is centered. Underneath the text is a bulleted list with four items: "Ownership", "Invasion of privacy", "Burden", and "Time is of the essence". At the bottom, there is a thin red horizontal line.

## What to do / How to do it

- Meta Data is Everywhere
    - – it can tell a much different story than the data
  - How do you know when to call for help?
    - upfront a consultant can steer an attorney in the right direction
    - data that looks suspicious
-



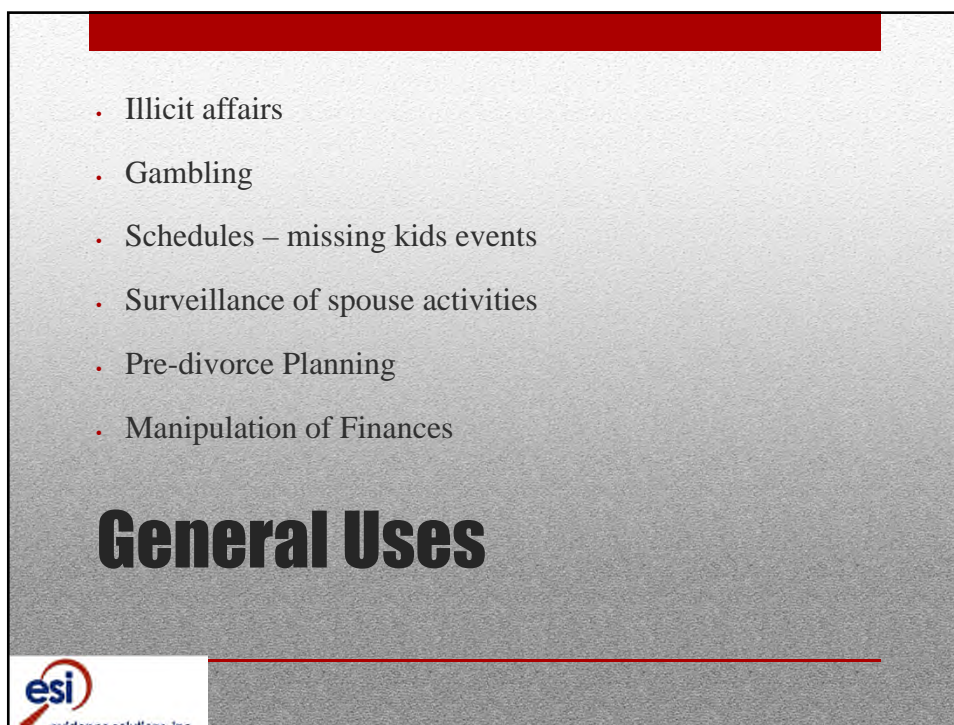


A slide with a grey background and a red header bar. It contains a bulleted list of forensic uses. At the bottom left is the 'esi' logo with the text 'evidence solutions, inc.' below it.

- Hiding / Finding Assets
- Overseas Accounts
- Investment Accounts
- Disposal of Assets
- Immoral Activities
  - Sex
  - Drugs

## General Uses

esi  
evidence solutions, inc.

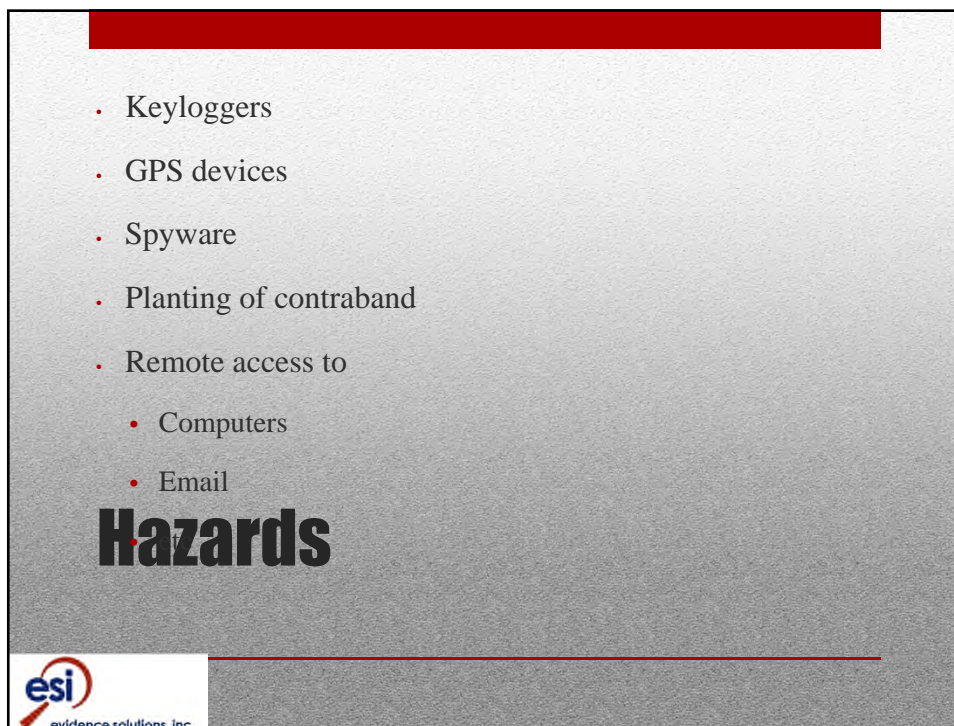


A slide with a grey background and a red header bar. It contains a bulleted list of forensic uses. At the bottom left is the 'esi' logo with the text 'evidence solutions, inc.' below it.

- Illicit affairs
- Gambling
- Schedules – missing kids events
- Surveillance of spouse activities
- Pre-divorce Planning
- Manipulation of Finances

## General Uses

esi  
evidence solutions, inc.



A presentation slide with a grey gradient background and a red horizontal bar at the top. The word "Hazards" is written in large, bold, black font. Below it is a bulleted list of digital threats. In the bottom left corner, there is a logo for "esi" (evidence solutions, inc.) with a magnifying glass icon.

- Keyloggers
- GPS devices
- Spyware
- Planting of contraband
- Remote access to
  - Computers
  - Email

**Hazards**

esi  
evidence solutions, inc.

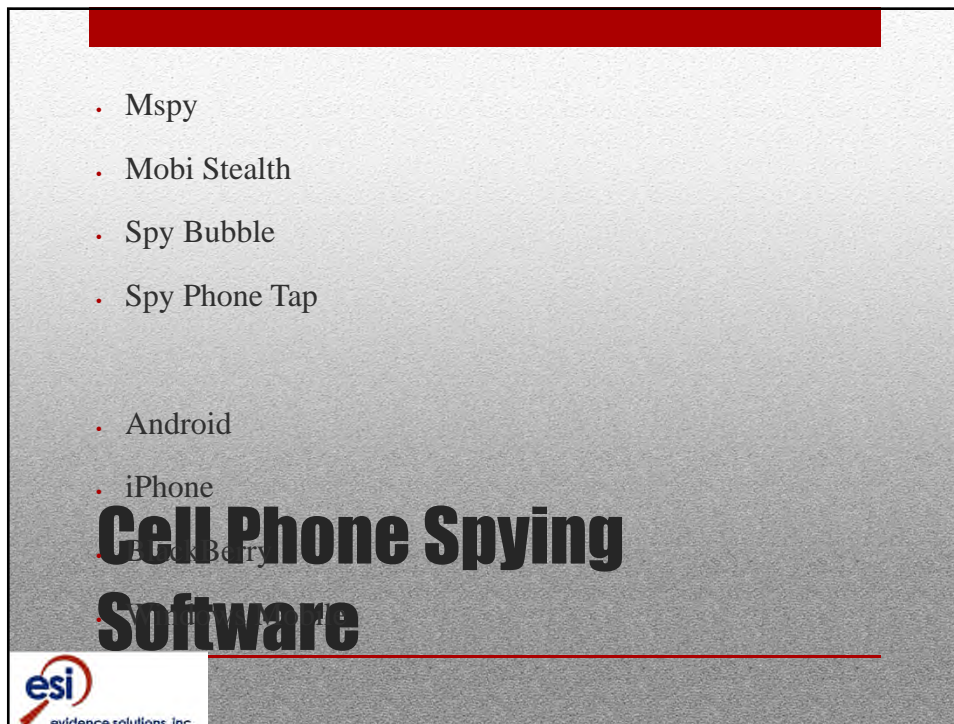


A presentation slide with a grey gradient background and a red horizontal bar at the top. The word "Hazards" is written in large, bold, black font. Below it is a bulleted list of cyber-related threats. In the bottom left corner, there is a logo for "esi" (evidence solutions, inc.) with a magnifying glass icon.

- Cyberstalking
- Cyberharrassment
- Social Media

**Hazards**


esi  
evidence solutions, inc.

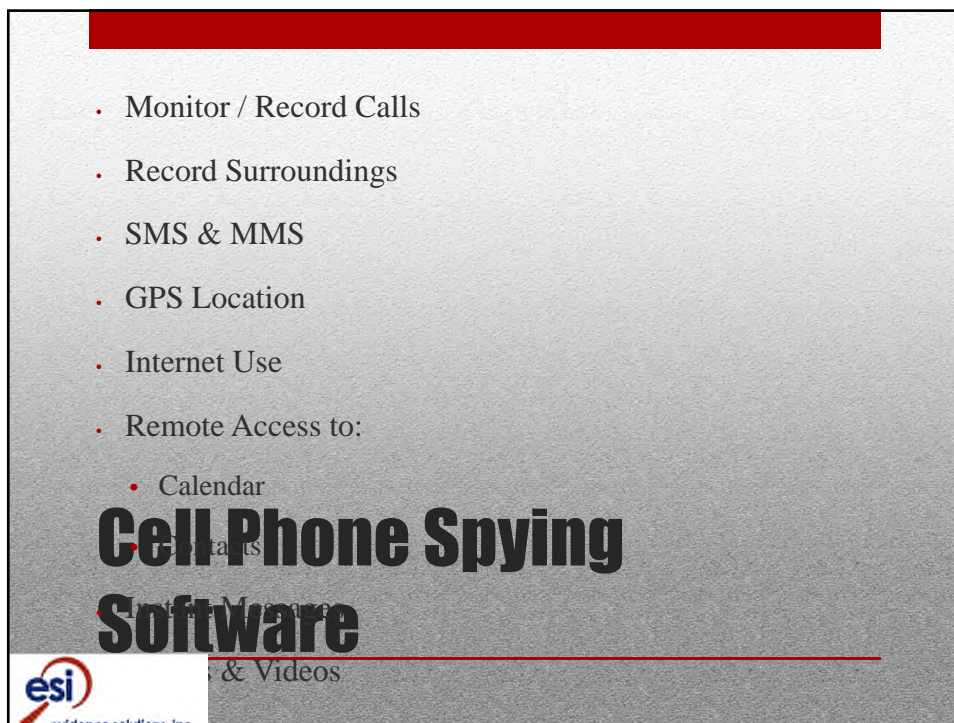


A presentation slide with a grey gradient background and a red horizontal bar at the top. It lists several mobile phone spyware products and operating systems. The text is as follows:

- Mspy
- Mobi Stealth
- Spy Bubble
- Spy Phone Tap
  
- Android
- iPhone
- BlackBerry

**Cell Phone Spying Software**


 evidence solutions, inc.



A presentation slide with a grey gradient background and a red horizontal bar at the top. It lists various capabilities of the spyware. The text is as follows:

- Monitor / Record Calls
- Record Surroundings
- SMS & MMS
- GPS Location
- Internet Use
- Remote Access to:
  - Calendar

**Cell Phone Spying Software**

 evidence solutions, inc.

& Videos

- GPS
  - Built into the car
  - Stand alone
  - Yes they can be attached to a car and report back everywhere the car has been
    - Active
    - Passive

## Beware: GPS



## GPS Tracking Devices





**GPS Tracking Devices**




evidence solutions, inc.

A slide with a grey background and a red horizontal bar at the top. In the center is a small image of a black GPS tracking device with a blue top. Below the image, the text "GPS Tracking Devices" is written in a large, bold, black font. At the bottom left is the "esi" logo, which consists of the letters "esi" in a blue font with a red circular arrow around the "i", and the text "evidence solutions, inc." in a smaller font below it.

- Keyloggers
- Spying software
  - Computers
  - Cell Phones
- Hidden Cameras

**Beware**



evidence solutions, inc.

A slide with a grey background and a red horizontal bar at the top. It contains a bulleted list of items: "Keyloggers", "Spying software" (with sub-bullets "Computers" and "Cell Phones"), and "Hidden Cameras". Below the list, the word "Beware" is written in a large, bold, black font. At the bottom left is the "esi" logo, which consists of the letters "esi" in a blue font with a red circular arrow around the "i", and the text "evidence solutions, inc." in a smaller font below it.

- KeyLogger Pro
- Spyrix Free Keylogger
  
- Can be installed and then hidden
- Send keystrokes elsewhere
  - Including Web Addresses & Passwords

## Keyloggers

- Free Online Keyloggers, Dating Sites, Social Media, Etc



## Spying Equipment





PLUGS INTO  
USB PORT

MODE SWITCH  
(1, 2, 3)

**Spying Equipment**



evidence solutions, inc.

A black USB pen recorder is shown at an angle. The top part is a standard USB-A connector. Below it is a silver-colored ring with a small switch. The body is black with 'PENRECORDERPRO' printed vertically. Arrows point from the text labels to the USB connector and the mode switch.



**Spying Equipment**



evidence solutions, inc.

A small, black and silver electronic device, possibly a hidden camera or microphone, is shown. It has a sleek, rounded rectangular shape with a silver-colored band across the middle. There are small buttons or sensors on the side and a small lens or opening on the front.



## Spying Equipment



## Spying Equipment







## Spying Equipment



evidence solutions, inc.



## Spying Equipment



evidence solutions, inc.

- Can send video to remote locations
- Can record video for later download
- Can store video on the Internet

## Spying Equipment



## Spying Equipment



- Voice Records have similar functionality to Video Devices

## Spying Equipment



evidence solutions, inc.

- **Anti-Spy Technology**
  - Some of these companies also offer “Counter Surveillance” technology including:
    - Bug Detectors
    - Phone Tap Detectors
    - Audio Jammers
    - Voice Changers

## Anti-Spying Equipment




evidence solutions, inc.

• **Data Wiping, File Wiping, Data Scrubbing or Hard Disk Drive Wiping Utilities (Data Shredding):**


- These software applications are used to permanently and completely destroy electronic data from Data Storage Devices making it unrecoverable.

## Beware Wiping Software



- Eraser 6
- DBAN (Darik's Boot and Nuke)
- CBL Data Shredder
- ErAce
- HDS shredder Free Edition
- HDDErase
- MHDD
- KillDisk
- Format Command With Write Zeroes
- Bit Disk Partition Wiper
- Eraser
- Freeraser
- Disk Wipe
- Hardwipe
- Secure Eraser
- PrivaZer
- PC Shredder
- AOMEI Partition Assistant Standard Edition
- Zero Drive Wipe
- CCleaner

## Beware Wiping Software



- Ownership
- Invasion of privacy
- Time is of the essence

## Other things...



evidence solutions, inc.

- [SpygearGadgets.com](http://SpygearGadgets.com)
- [SpyTecInc.com](http://SpyTecInc.com)
- [SpyEmporium.com](http://SpyEmporium.com)

## Resources



evidence solutions, inc.

- [Robert L. Schwartz](#) of Dickerson Wright:
- "The recent proliferation of the use of computers, iPhones, iPads and the like has created an ever increasing problem in marital relationship's. Spouses have resorted to monitoring their other spouse's behavior by installing tracking programs and various types of spyware. Marriages have come to an abrupt end when a spouse suddenly discovers an on line romantic relationship; a continuing connection with a former girl/boy friend ; a serious addiction to pornography; and other hidden behaviors. Even where the spouse may stay together, there is now the always present lack of trust. We have entered a new era of stressors on marriage."

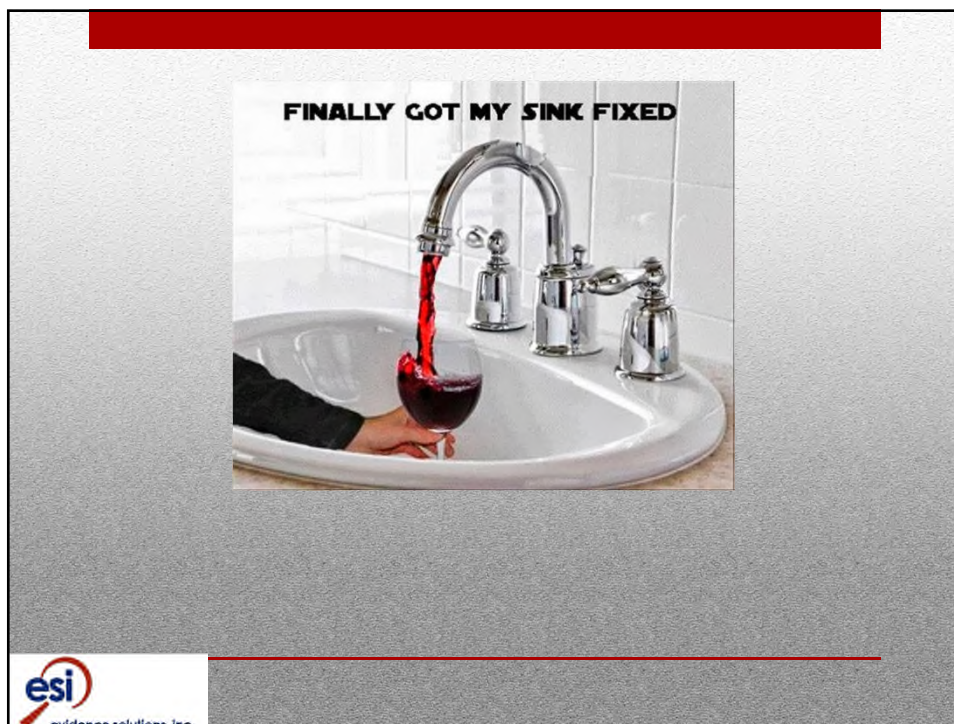
**Beware!**



- One site that sells some Spy Equipment:
  - "... all you have to do is obtain permission from the phone's owner/user, install a small application on the phone ..."
  - Then you can monitor their whereabouts, track them by GPS, read their email, and read their text messages.
  - Warning: The description stops short of warning the purchaser to check local laws or consult an attorney prior to purchase or use.

**Warning!!!**





- Drop me an email: [Scott@EvidenceSolutions.com](mailto:Scott@EvidenceSolutions.com) and ask to be put on my mailing list.

## Contact Information

Scott Greene

of

Evidence Solutions, Inc.

866-795-7166

Scott@EvidenceSolutions.com

