Digital Stalking

and other Technology Threats

James A. Dill, Innovative Technology
& Investigative Solutions, LLC

Your Instructor

Jim Dill, Deputy Chief, Retired
PA Office of Attorney General
&
President
Innovative Technology &
Investigative Solutions, LLC

For a PDF copy of the presentation email:
jdill@itis-llc.com
717-884-8167

ITIS, LLC All Rights Reserved

Goals & Objectives

- Identify common technologies that are used in everyday life that can be misused for stalking, domestic abuse, etc.
- Examine how those technologies work and what are the latest trends.
- Demonstrate how they are being misused.
- Discuss ways to prevent or mitigate their use.
- Provide investigative tips, techniques & resources.

ITIS, LLC All Rights Reserved

Ultimate Goal

Safety

ITIS, LLC All Rights Reserved

I Need Your Participation!

In the form of:

- Questions????
- Experiences
- Stories
- Ideas

ITIS, LLC All Rights Reserved

Survey

- On a Scale from 1 to 5 rate your technology skills

- Social Networks?
  - How many of you are NOT on Facebook?
  - How many use Social Media?
  - How about you Family Members?

ITIS, LLC All Rights Reserved

Stalking Laws

- The federal government, all 50 states, the District of Columbia, and U.S. Territories have enacted criminal laws to address stalking.
- The legal definition for stalking varies across jurisdictions.
- A common definition is: “threatening behavior or unwanted advances directed at another using the Internet and other forms of digital and computer communications”.

ITIS, LLC All Rights Reserved

Bureau of Justice Statistics

- The BJS measured stalking behaviors as:
  - making unwanted phone calls
  - sending unsolicited or unwanted letters or e-mails
  - following or spying on the victim
  - showing up at places without a legitimate reason
  - waiting at places for the victim
  - leaving unwanted items, presents, or flowers
  - posting information or spreading rumors about the victim on the internet, in a public place, or by word of mouth.

ITIS, LLC All Rights Reserved

Digital Stalking Another Example

- Todd Hart just couldn't let go when his girlfriend announced she was moving to California for an educational opportunity. Prosecutor Michael Levy says Hart threatened suicide, but when that didn't work, the threats and harassment began. He targeted the woman, her family and friends with threatening calls and emails, changed the password of some online accounts and moved money from her banking accounts

- **Hart was sentenced to five years in prison in Philadelphia in this frightening case of Digital Stalking.**

.

ITIS, LLC All Rights Reserved

Department of Justice Stalking Statistics

- An estimated 5.3 million U.S. residents age 18 or older experienced behaviors consistent with either stalking or harassment in a 12 month period.
- GPS technology and other forms of electronic monitoring were used to stalk one in 13 victims.

ITIS, LLC All Rights Reserved

Case Study GPS Stalking

Delaware County, Media, PA-Morton Businessman gets life sentence for murder

Published: Tuesday, May 24, 2011 - DelcoTimes.com

Sean Burton was convicted of the murder of, James Stropas because he was involved in a love triangle with Burton's estranged wife.

Burton had taken to following Stropas and **used a tracking device planted on the victim's car to track him** to Olde Sproul Shopping Center in Springfield on the morning of June 21, 2010.

Burton used a butcher's knife and cut Stopas over 70 times.

ITIS, LLC All Rights Reserved

Your Phone May Also Give Up Your Location

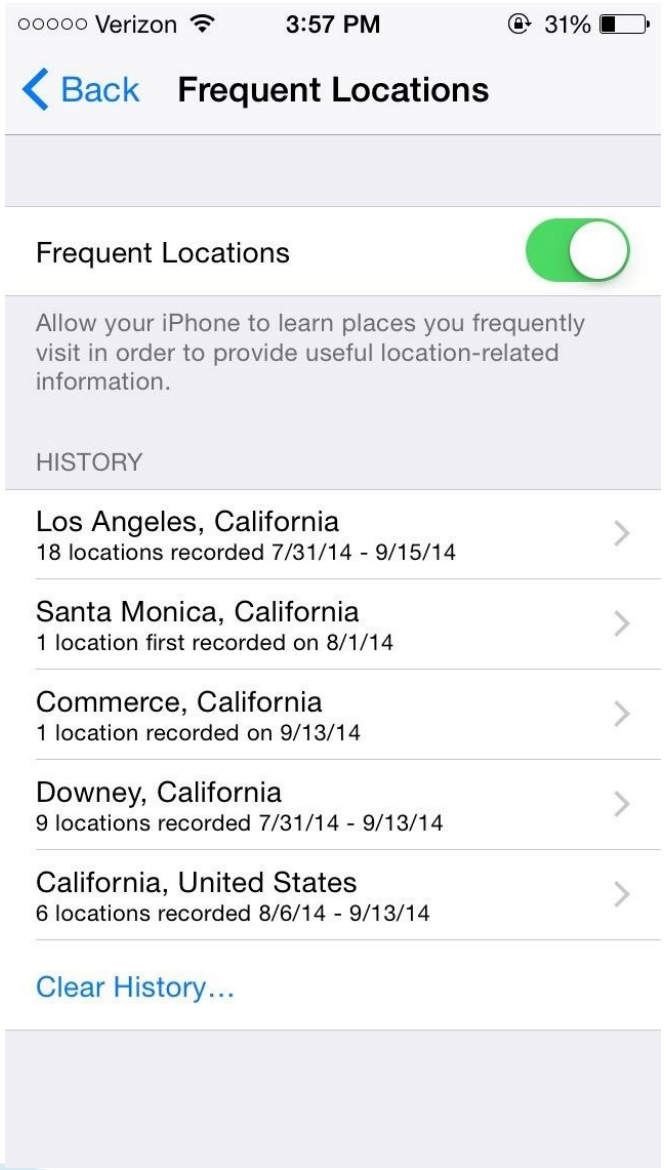
- If a person knows your phone password they can access your location history right from your phone if you haven't changed your settings.

ITIS, LLC All Rights Reserved

iPhone iOS 8 & 9

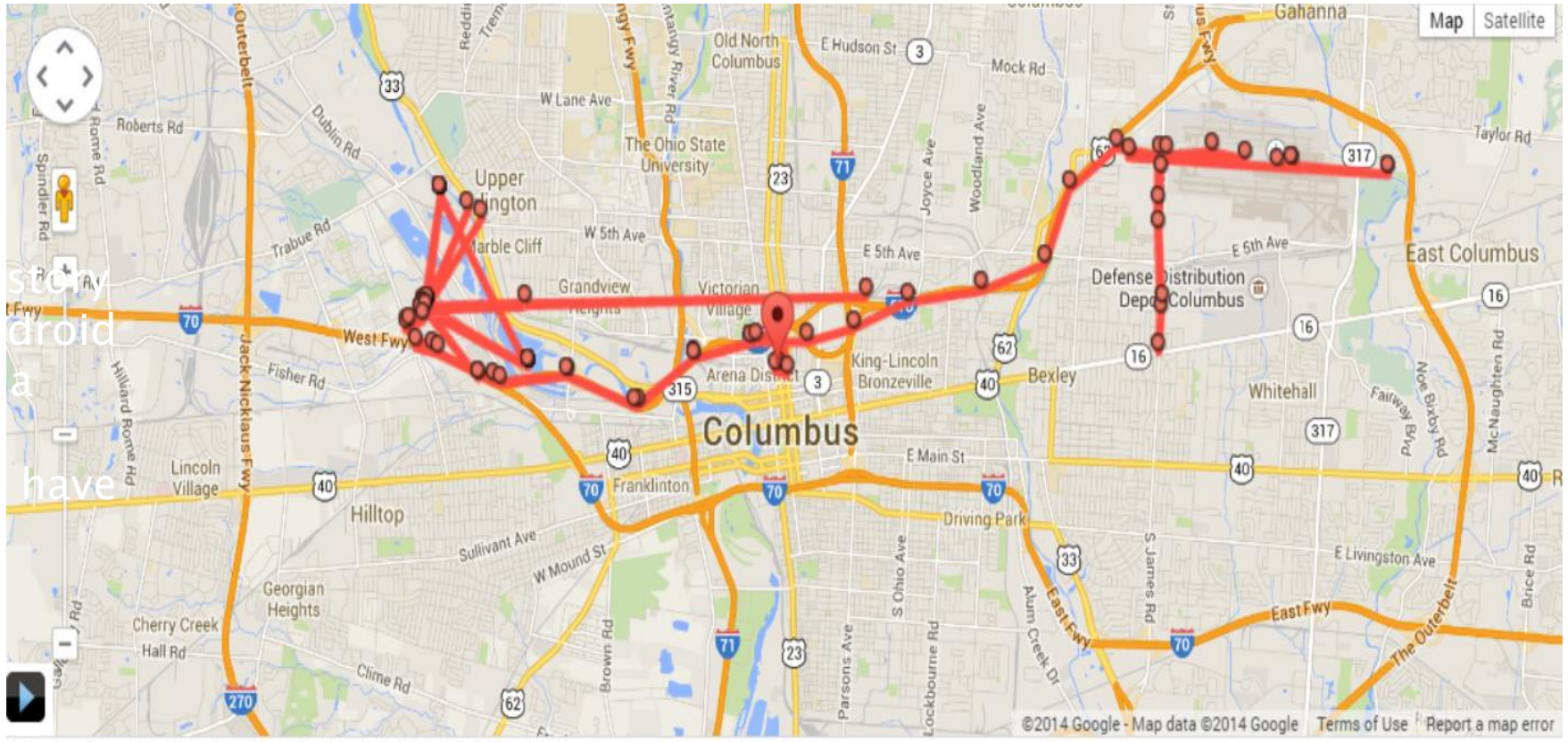
The iPhone now remembers everywhere the user goes by default.

Apple has buried this function very deep. Settings > Privacy > Location Services > System Services > Frequent Locations.



ITIS, LLC All Rights Reserved

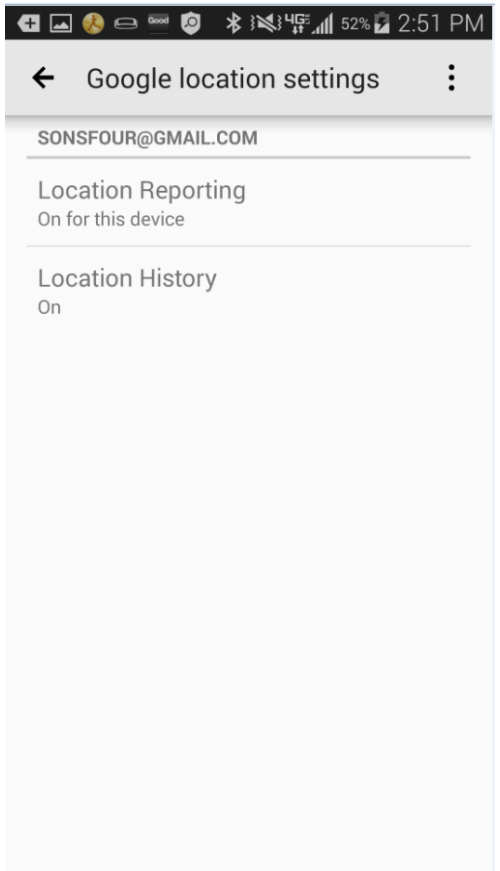
Android Phone – Location History

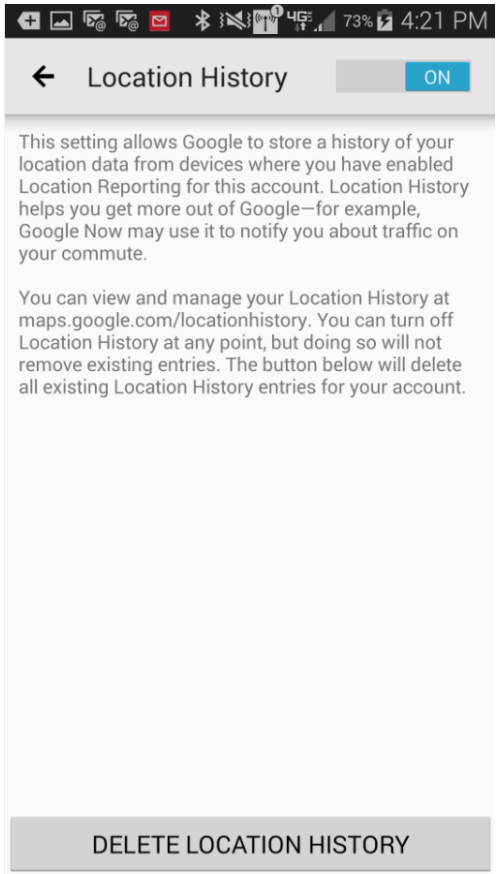


www.maps.google.com/locationhistory

ITIS, LLC All Rights Reserved

Location History – Android





ITIS, LLC All Rights Reserved

What Can We Do to Protect Ourselves?

Knowledge

ITIS, LLC All Rights Reserved

What's Out There?!?

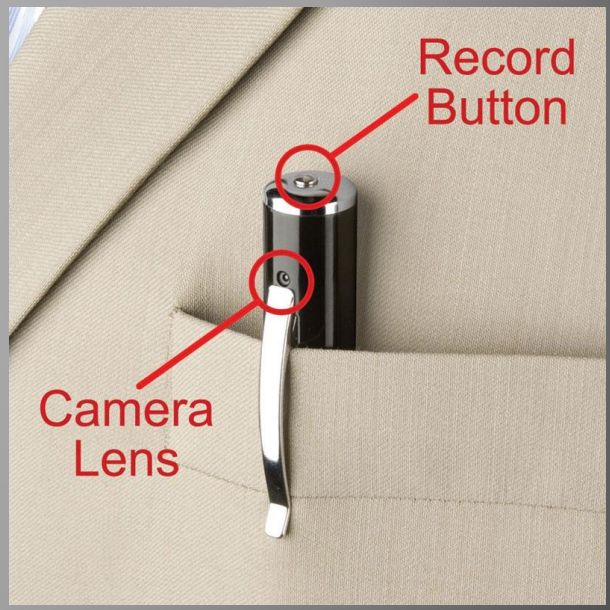
- Security Spy Gadgets
  - Video Surveillance & Counter-Surveillance is being used more and more against individuals and police.
  - It is readily available, inexpensive & simple to use
  - Anyone with an Internet connection & a credit card can buy sophisticated surveillance/counter-surveillance tools.
  - Photography & Video are legal in a public area.

How Else Can We Being Tracked?

- Through the pictures we take.
- Via our cell phones
  - Using Spyware
  - The phone company's software
  - Smartphone Apps
- Our vehicle's GPS
- Social Networking sites
  - Using Geotagging on sites like Foursquare, Google Latitude & Facebook Places

ITIS, LLC All Rights Reserved

Photography & Video



Photography

- Digital
  - High MP Quality for cropping & enhancing
    - Normal Cameras up to 20 MP (Canon EOS 5DS ups the resolution from 22 megapixel up to 50.5 in June 2015).
    - Nokia Lumia 1020
    - https://light.co/camera 52 MP Camera
      - Amazing detail that provides opportunity for new technologies
    - Some as high as 1474 MP Incredible Camera
  - Already infrared sensitive
  - Optical & Digital Zoom Lenses
    - Canon PowerShot SX60 HS Zoom range 21– 5460 mm (4x digital)
  - Image Stabilization
  - Can record stills or HD video
  - Tremendous storage capabilities

ITIS, LLC All Rights Reserved

Common Memory Cards

ITIS, LLC All Rights Reserved

Memory Card Capacity- Photos

Megapixels	File size (MB)	1GB	2GB	4GB	8GB	16GB	32GB	64GB	128GB
4MP	1.2	715	1430	2861	5722	11444	22888	45776	91552
5MP	1.5	572	1144	2288	4577	9155	18310	36620	73240
6MP	1.8	476	953	1907	3814	7629	15258	30516	61032
7MP	2.1	408	817	1634	3269	6539	13078	26156	52312
8MP	2.4	357	715	1430	2861	5722	11444	22888	45776
10MP	3.0	286	572	1144	2288	4577	9155	18310	36620
12MP	3.6	238	476	953	1907	3814	7629	15258	30516
14MP	4.2	204	408	817	1634	3269	6539	13078	26156
16MP	4.8	178	357	715	1430	2861	5722	11444	22888
22MP	6.6	130	260	520	1040	2080	4161	8322	16644

ITIS, LLC – All Rights Reserved

What's Hidden in Your Digital Photos

- EXIF Data

ITIS, LLC All Rights Reserved

EXIF – Exchangeable Image File Format

- Camera settings and scene information are recorded by the camera into the image file.
- Often called Metadata.
- Most photo viewers can read EXIF data
- Recorded on all digital photos

ITIS, LLC – All Rights Reserved

EXIF Data

Filename: ADill 2.jpg

Location: My Pictures\Family\

Size: 105KB Date: 5/22/2010 2:14:45 PM

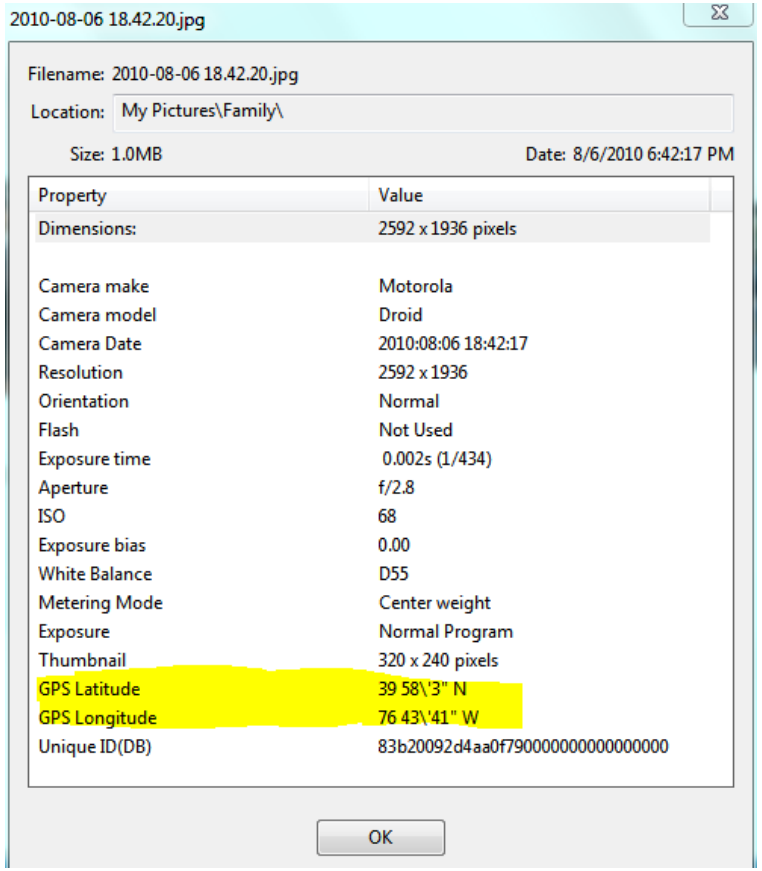
Property	Value
Dimensions:	555 x 832 pixels
Camera make	Panasonic
Camera model	DMC-FZ10
Camera Date	2010:05:22 14:14:45
Resolution	555 x 832
Flash	Not Used
Focal length	39.6mm
35mm equivalent	238mm
Exposure time	0.005s (1/200)
Aperture	f/4.0
ISO	50
Exposure bias	0.00
White Balance	Sunny
Metering Mode	Matrix
Exposure	Normal Program
JPEG Quality	86 (411)
Unique ID	e334e630a9c4e40ab7d8a239e8d1bc55
Unique ID(DB)	e334e630a9c4e40ab7d8a239e8d1bc55

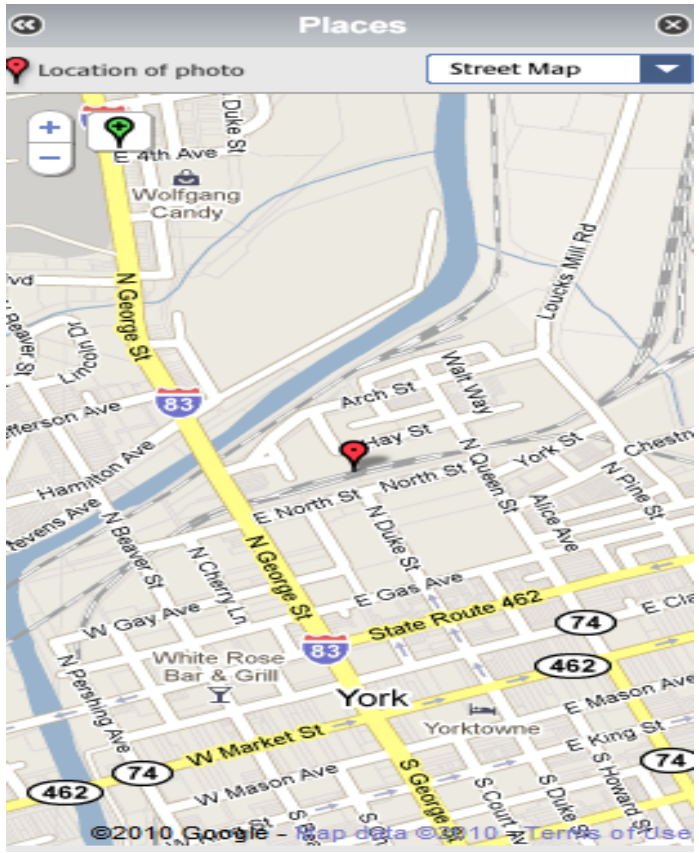
ITIS, LLC - All Rights Reserved

EXIF Data

ITIS, LLC – All Rights Reserved

EXIF Data with GPS





DEMO

ITIS, LLC All Rights Reserved

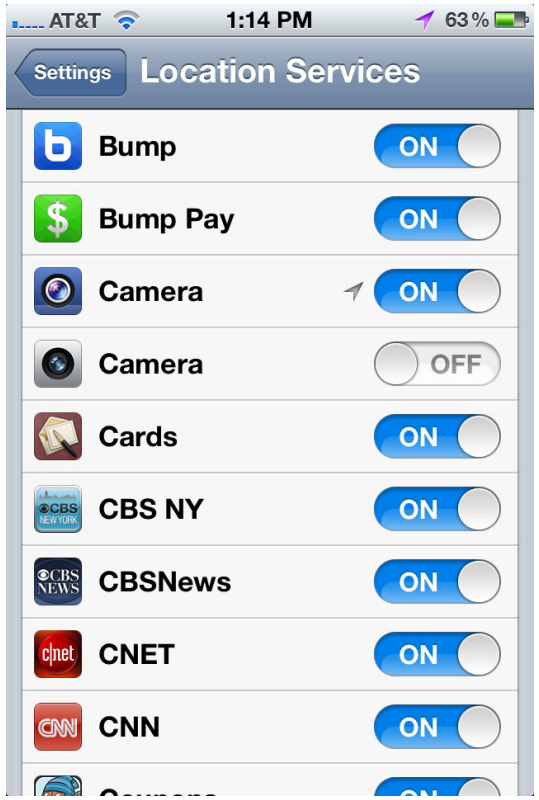
EXIF Location Data Demo

- My Photos
  - Windows Photo Viewer
  - Picasa
- http://www.flickr.com/map
- EXIF News Report

ITIS, LLC – All Rights Reserved

Solutions

- Turn off GPS on phone's camera for photos.
  - Go into your phone's camera, location, or security settings



ITIS, LLC – All Rights Reserved

EXIF Data Solutions

- Set security on photo sharing site.
- Remove EXIF information
  - With Window's Vista, 7, or 8:
    - Right click photo
    - Select: Properties
    - Select: Details
    - Select: Remove Properties & Personal Detail
    - Choose to remove all or just GPS data

DEMO

ITIS, LLC all rights reserved

Video

- From Nanny Cams to Spy Devices

ITIS, LLC All Rights Reserved

Video

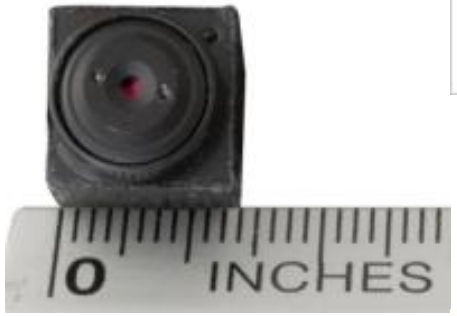
Video

Overt & Covert

Fixed or Broadcast (RF or WLAN1, 2)

Day or Night Vision

Optical lenses up to 70 X



Panasonic SDR-T50
78X = 33mm-2574mm

ITIS, LLC
All Rights Reserved

Sample Covert Cameras

ITIS, LLC
All Rights Reserved

Sample Covert Cameras

Clothes Hook Spy HD Camera Mini DVR Hidden Video Voice Recorder Camcorder Motion Detector

Under $25.00
Dhgate.com

ITIS, LLC All Rights Reserved

Sample Body Worn Cameras

MP3 Player Hidden Camcorder

Looks and Works Like Your Favorite MP3 Player but Is Actually a Hidden Camcorder Secretly Recording Everything...

Car Remote Camera Spy Camcorder

Car Remote Key Chain Camera Spy Camcorder - High Resolution Surveillance Anywhere...

Mega Mini Spy Camera Pro Built-In DVR

Mega Mini Pro: Audio Activated Portable DVR Camera w/ Amazing Video Quality...

Secret Agent Hidden Camcorder Watch

Secret Agent Camcorder Watch: Covert Video & Audio Taken To A New Level...

Tie Cam w/ Built In DVR & Remote Control

The Ultimate Accessory Covert Recording - This Body Worn Tie Cam Records Video and Audio Right Inside the Tie Itself...

ITIS, LLC
All Rights Reserved

Sample Body Worn Cameras

[ID Card Hidden Camcorder]

World's Thinnest Body Worn Camera 4-in-1 Snapshot Camera, Camcorder, Audio Recorder & Webcam ...

[DVR Spy Sunglasses w/ Audio]

Record Audio & Video Through Your Own Eyes w/ Covert Spy Sunglasses...

[Covert Pen Camera]

No One Will Suspect That This Ordinary Looking Pen Is Capturing Covert Video ...

[Covert Wireless Headset Camera]

Functional Wireless Headset Doubles As Hidden Video Camera...

[Sony ExView Button & Screw Camera With Pro DVR]

Highest Resolution Body Worn Button & Screw Camera With Pro DVR Can Record In Extreme Low Light...

ITIS, LLC
All Rights Reserved

Careful with Baby Monitors

Insecam site
http://www.opentopia.com/

ITIS, LLC All Rights Reserved

Communication Services

- Caller ID
- Telephony Features & Services
- Spoofing
- Virtual Number Remedy

ITIS, LLC All Rights Reserved

Test Your Technology IQ

The above item is:

A. A useful communication tool.
B. A way to stay in touch with friends.
C. A portable entertainment center.
D. An instrument of fear.

Stalkers use cell phones to make unwanted calls to victims and leave threatening voice and text messages. Cell phones with global positioning systems can even be used to track victim movements.

Stalking is a crime. If you or someone you know is a victim of stalking, **we can help.**

Stalking Resource Center
www.ncvc.org/src

THE NATIONAL CENTER FOR Victims of Crime
1-800-FYI-CALL

This document was developed under grant number 2004-WT-AX-K085 from the Office on Violence Against Women (OVW) of the U.S. Department of Justice. The opinions and views expressed in this document are those of the author(s) and do not necessarily represent the official position or policies of the Office on Violence Against Women of the U.S. Department of Justice.

ITIS, LLC All Rights Reserved

Telephony – Special Features

Caller ID

Not what it used to be…

ITIS, LLC All Rights Reserved

Telephony
Special Features – Caller ID

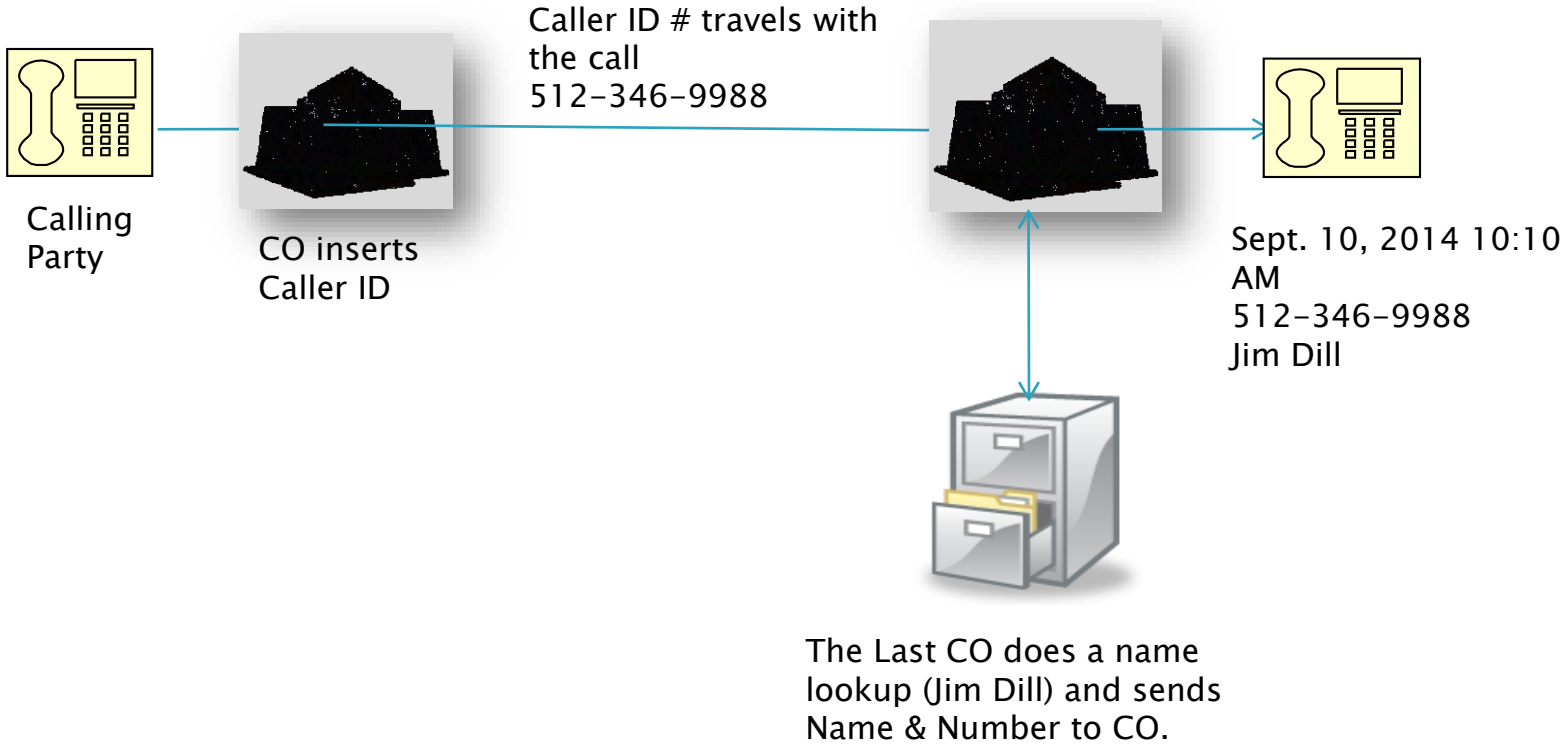
- Caller ID – Definition

  AKA: **caller identification** (**CID**), or **calling number identification** (**CNID**) is a telephone company service that sends the caller's telephone number.

- If the calling number is not “blocked”, the calling number is displayed on the handset or base station.

ITIS, LLC All Rights Reserved

Caller ID – How does it work?



ITIS, LLC All Rights Reserved

Caller ID Messages

- Date & time of the call
- Phone number with or w/o name
- Blocked, Private, Restricted, or Anonymous
- Unavailable
- Error

ITIS, LLC All Rights Reserved

Caller ID Facts

- Transmitted between the first and second ring
- Passes whether you have a non-published number or a private line
- Passes between phone companies, states and countries
- Will pass when using most phone debit or credit cards
- **Is transmitted on every call!**

What about Blocking????

ITIS, LLC All Rights Reserved

Blocking Options

- Telco Company Options

ITIS, LLC All Rights Reserved

Caller ID – Blocking Options

There are blocking options offered by the phone company. What are they?

- Per Call Blocking – *67 to activate
- Total Call Blocking or Line Blocking – all calls are blocked via the phone company

Can “Blocking” provide a false sense of security? **YES!**

Does “Blocking” work in every instance – **NO!!!**

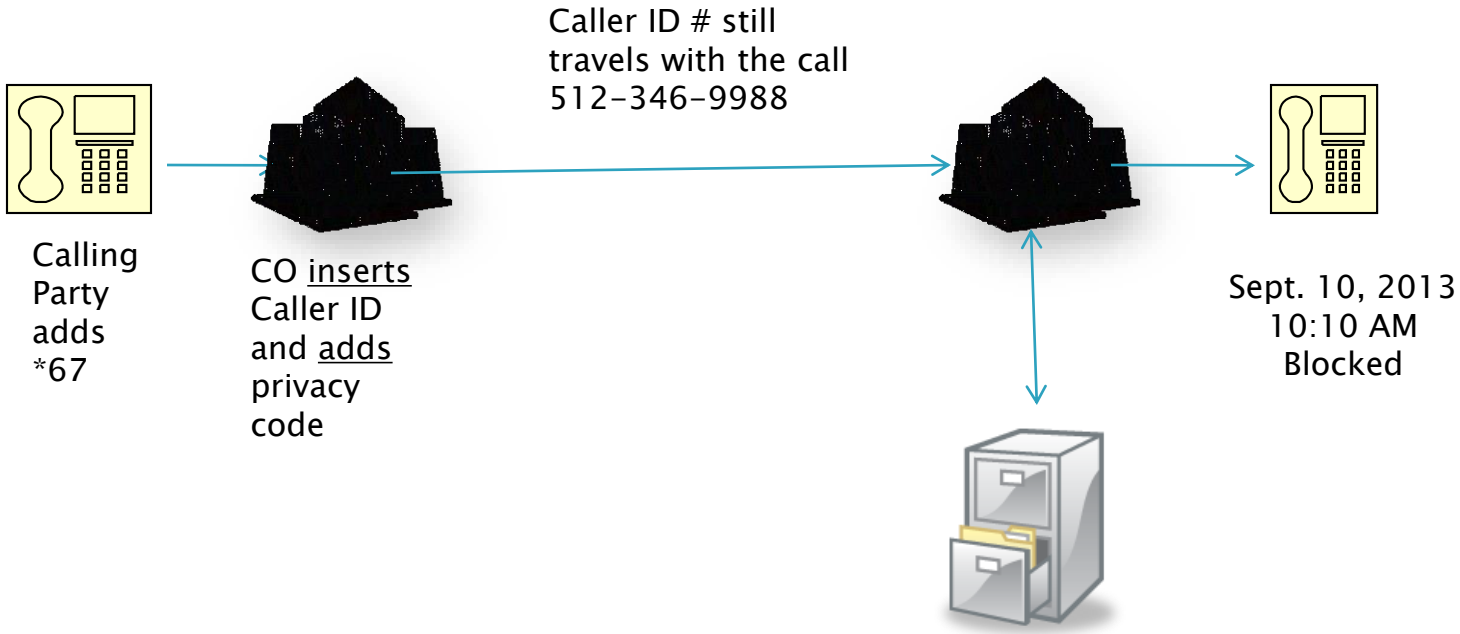
ITIS, LLC All Rights Reserved

How Caller ID Blocking Works

Let's look what happens when the Calling Party blocks their Caller ID?

ITIS, LLC All Rights Reserved

How Caller ID Block Works



ITIS, LLC All Rights Reserved

Caller ID Blocking
Things to Remember

- Remember when you block your Caller ID you are just blocking it from being "Displayed"
- It is still being sent!!!
- There are ways to defeat the Block!
- The local Telephone Company retains the Blocked Number (Trap & Trace)

ITIS, LLC All Rights Reserved

Other Important Caller ID Blocking Facts

- You can't block calls to 911 calls (ANI)
- You can't block calls to "Toll Free" numbers (800, 888, 866, etc). Why?
- Must be careful when using line blocking on a cellular phone.

In addition, some Telco features aren't affected by Caller ID Block.

ITIS, LLC All Rights Reserved

Features that still work with Caller ID Blocked

- *57 – Call Trace (landline only). Why?
- Call Detail Records (CDR) – Cellular Phones
- *60 – Selective Call Rejection/Call Block
  - Phone companies first line of defense

ITIS, LLC All Rights Reserved

Other Caller ID Related Features & Tools

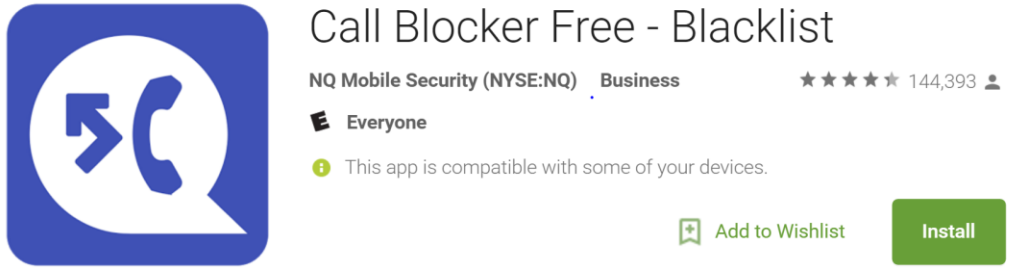
- Protect yourself from Blocked Callers on your landline

ITIS, LLC All Rights Reserved

How To Prevent Blocked Caller ID

- **Call your phone company.** Ask them about the services they provide for blocking unknown numbers. Many of these phone plans cost a few dollars a month and are billed on a monthly basis. These will stop Blocked Caller ID but not “Unknown or Unavailable” calls.

- **Install a call blocking app.** If you are using an iPhone or Android phone, you can install apps that will allow you to automatically block calls from hidden numbers.



ITIS, LLC All Rights Reserved

Are there non-Telco Services That Can "Unblock" a Call?

YES!

There are services such as TrapCall that will reroute your incoming calls through a 800 number service, which will read the ANI and resend the call back to your cell phone.

ITIS, LLC All Rights Reserved

TrapCall Demo

www.trapcall.com

ITIS, LLC All Rights Reserved

Summary
Steps to Identify A Blocked Caller

- Check Cellular Call Detail Records
- Use * 57 to trace the call
  - Be sure to record the date & time you use it.
  - Give that information to the police.
- Use a service like “Trap Call” to immediately identify the caller.
- Notify the Police and request a Trap & Trace placed on the line.

Jim Dill, ITIS, LLC All Rights Reserved

Methods of Disguising or Spoofing Caller ID

- Internet Telephony – VoIP
- Caller ID Spoofing
- Virtual Numbers

ITIS, LLC All Rights Reserved

Internet Telephony

Voice over IP-VoIP

Internet Telephony

- Voice over Internet Protocol (VoIP) a method of placing a audio or video call using your internet connection instead of your phone line.
- Your voice is converted to a digital signal and sent out over the Internet similar to how an email is sent.
- Examples of commonly known VoIP Services:
  - Skype
  - Magic Jack
  - Vonage
  - Net2Phone
  - Many, many more including AT&T U-verse Voice and Verizon Digital Voice

ITIS, LLC All Rights Reserved

VoIP – Impact

- With PC based VoIP services like Skype Caller ID is either “Unavailable” or masked (all 0’s, 0-9, etc.) or given a Temporary Directory Number (TDN).
- Communications can be encrypted when communicating computer to computer.

Skype Demo

ITIS, LLC All Rights Reserved

Caller ID Spoofing

Caller ID Spoofing

- Changing the Caller ID info received by the Called Party.

- Good & Bad Uses
- Voicemail Issue!!!
- How does it work?

ITIS, LLC All Rights Reserved

Caller ID Spoofing Services

Use of a third party to rout your calls and change your Caller ID to whatever you want the called party to see.

1. You purchase minutes similar to a prepaid phone card.
2. Dial the access number
3. Enter the number PIN number
4. Enter the number you want to call
5. Enter the number you want to display on the Called Parties Caller ID.
6. You can even change your voice & record.

ITIS, LLC All Rights Reserved

Caller ID Spoofing **Plus**

- Spoofem.com permits:
  - Spoofs Caller ID PLUS
  - Text Messages
  - Email
  - Has an iPhone and a desktop application
  - Can check to see if your number was ever spoofed

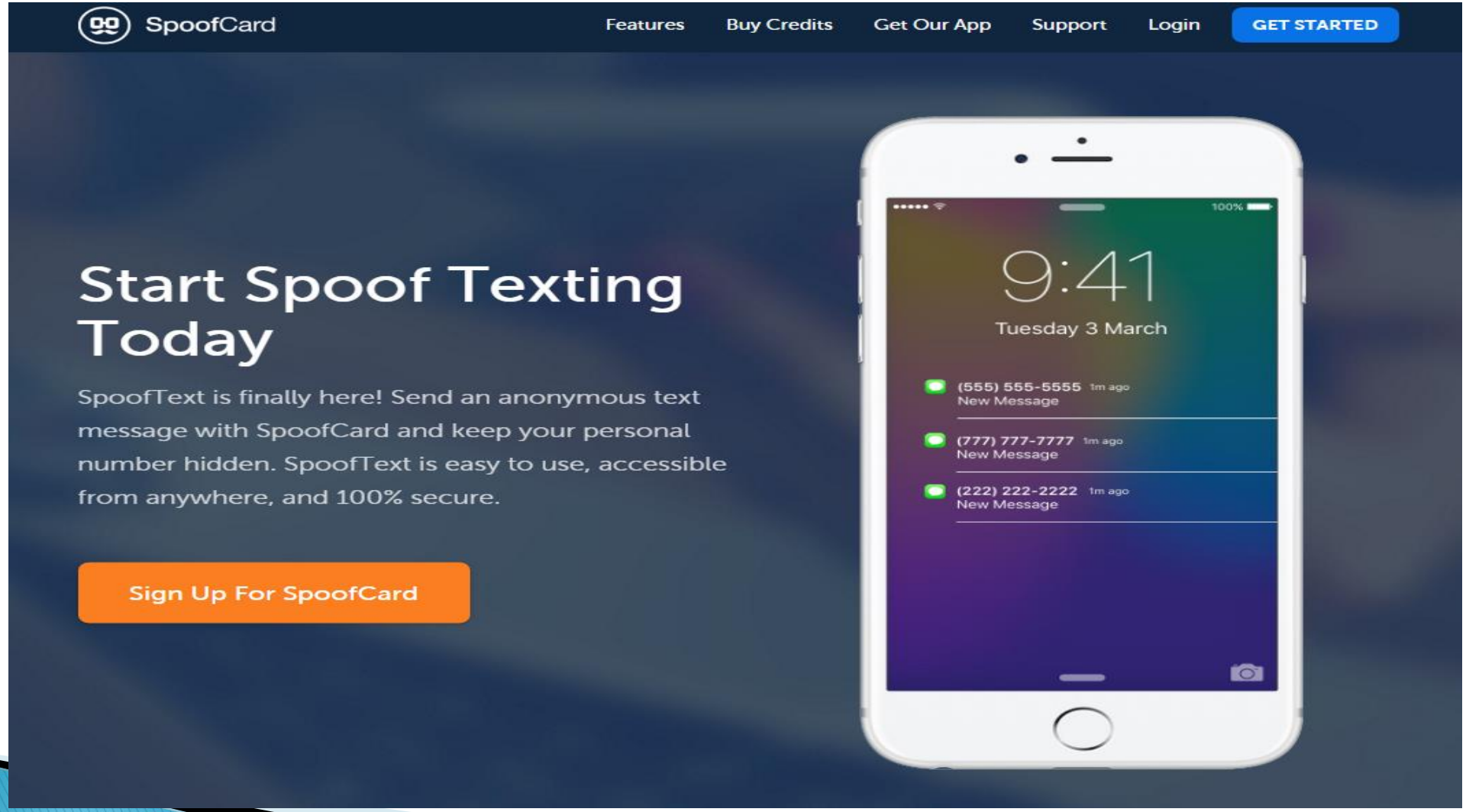
www.spoofem.com

ITIS, LLC All Rights Reserved

www.spoofcard.com

ITIS, LLC All Rights Reserved

Spoof Text As Well



ITIS, LLC All Rights Reserved

Caller ID Spoofing

DEMO

https://www.spoofcard.com/

ITIS, LLC All Rights Reserved

Caller ID Spoofing Impact

- Good
  - Anyone can do it – inexpensive
  - It can serve as a way of protecting your identity

- Bad
  - It can be used as a stalking tool.
  - Police use CID as evidence.
  - It is very difficult to determine the actual calling party.
  - Smart Phone & Facebook apps
  - There are record & voice change options.
  - Police can't be sure of 911 information – e.g. swatting pranks.

ITIS, LLC All Rights Reserved

Tracing a Spoofed Call

- *69 or *57???
  - No, Will just call back the Spoofed number
- Check ANI
  - No, ANI is also Spoofed
- Look @ billing records of accused – Yes
- What Information do you know?
  - Date, Time, Number Called, Spoofed Number
- Check with individual spoofing companies
    - Provide them the details you know.
    - Request if a call was made using their service.
  - The Spoofing company may have the phone number or IP address of the person.

ITIS, LLC , All Rights Reserved

Spoof Card Companies

- Spoofcard www.spoofcard.com
- Spooftel www.spooftel.com
- Phone Gangster www.phonegangster.com
- Telespoof www.telespoof.com
- Bluff My Call http://bluffmycall.com
- Caller ID Faker http://calleridfaker.com
- Itellas www.itellas.com

Note: These are CID Spoofing providers, but there may be others.

ITIS, LLC All Rights Reserved

Virtual Numbers

Virtual Numbers

- A virtual number is a telephone number without a directly-associated telephone line or instrument.
- Usually numbers are programmed to forward incoming calls to one or more pre-set telephone numbers chosen by the subscriber.
- Never have to give out your actual phone number
- Numbers can be changed as often as you like.

DEMO

ITIS, LLC All Rights Reserved

Who Uses a Virtual Number

- eBay Buyers and Sellers, Craigslist…
- Dating site members
- Business Owners, Lawyers, Police…
- Victims of crimes, women shelters, and of course criminals.

ITIS, LLC All Rights Reserved

Virtual Numbers

Some Features of Virtual Numbers Include:

- Incoming Calls – Screening
  - Answer it
  - Send directly to Voice Mail
  - Give them a Busy Signal
  - Playback a recording that the number is “Out of Service”
  - Create a Custom Message
- Outgoing calls
  - By calling your Virtual Number prior to making an outgoing call, you can display Virtual No. Caller ID instead of the phone your calling from.

ITIS, LLC All Rights Reserved

Virtual Phone Number Service

1

Choose an area code for your Vumber

917

Get your new Vumber

917-555-1212

2

Link it to your home, cell or work phone.

3

Receive calls just like an ordinary phone number

To make a call, simply call your Vumber, and then make your call.

Additional Features

Determine how you want your calls handled: Ring thru, Voice Mail, No longer in service.

Change your Vumber as many times as you want.

Other Cool Features

You can do much more with a Vumber than you can with a traditional phone number...

See a complete list of features

Vumber.com Features

ITIS, LLC All Rights Reserved

Google Voice

- Google Voice is a complete call management application combining a VoIP phone service, virtual number, voice mail, and other features all in one service.

ITIS, LLC All Rights Reserved

Google Voice Features

- You get assigned a Virtual Number of your choice.
  - By area code or zip code
- Forward calls from your Google Voice number to one or more phones, or directly to voicemail.
- Receive text (SMS) alerts when you get a call.
- Screen callers by asking for and recording their names.
- **Transcribe voicemails**, which Google Voice will send as email and/or text messages to your cell phone.

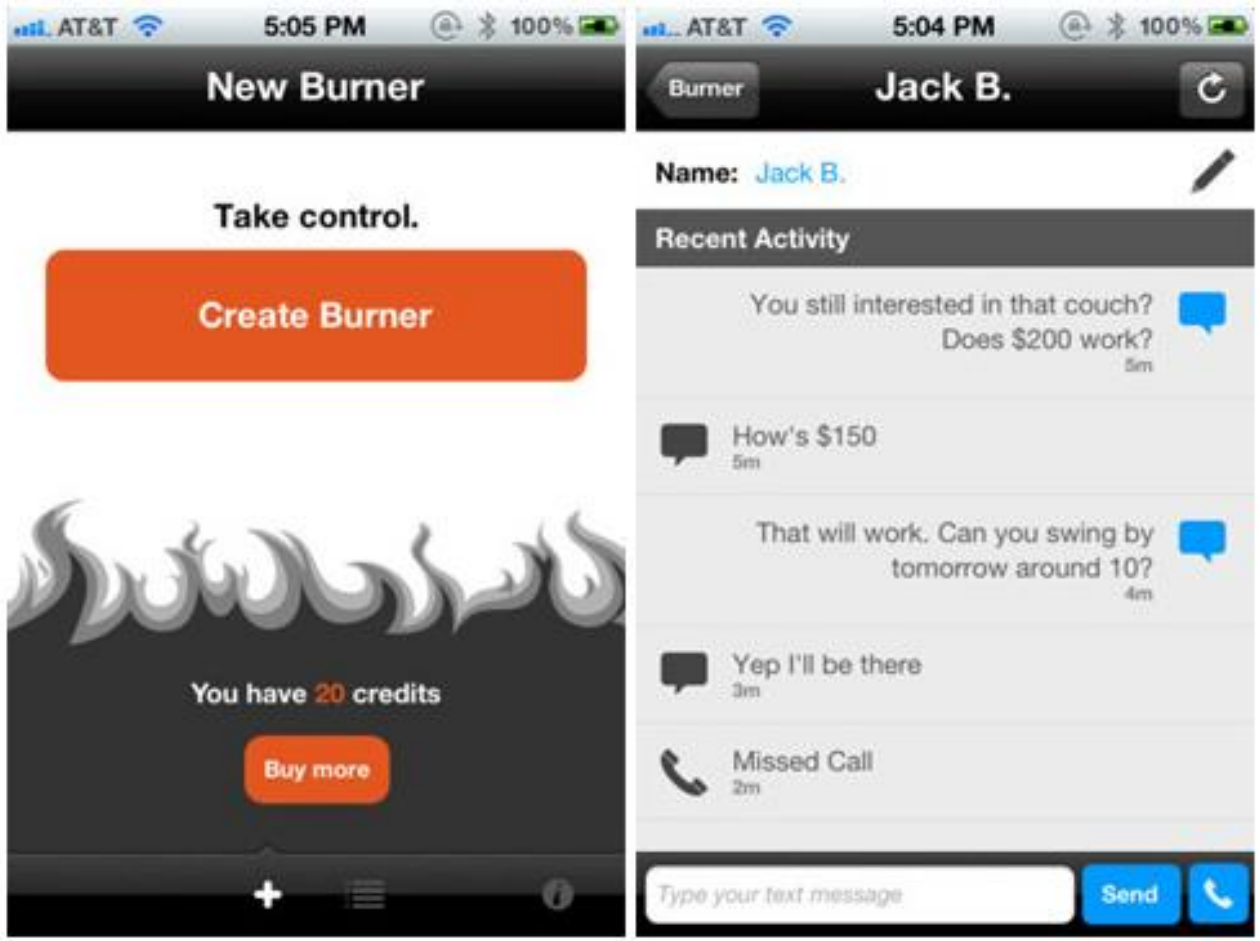
ITIS, LLC All Rights Reserved

More Google Voice Features

- Block annoying callers by playing a number-not-in-service recording when they call.
- Vary personalized greetings by Caller ID!
- Listen to voicemail messages as they're being recorded
- Send texts using Google Voice Number.
- Switch phones during a call.
- Phone U.S. numbers for free.
- Use your Google number for you Caller ID no matter what phone you use. WHY??

ITIS, LLC All Rights Reserved

Virtual Number App – "Burner"



ITIS, LLC All Rights Reserved

Virtual Number App – "Burner"

- New iPhone App by Ad Hoc Labs
- Burner buys phone numbers from Twilio, a startup that makes an API for voice communications.
- $1.99 buys a number, a week of use or 20 minutes of talk time.
- Instantly trash it when you're done.
- Can buy as many numbers as you want!
- Your own "Burner" number shows up when receiving a call on it.
- Demo – Video

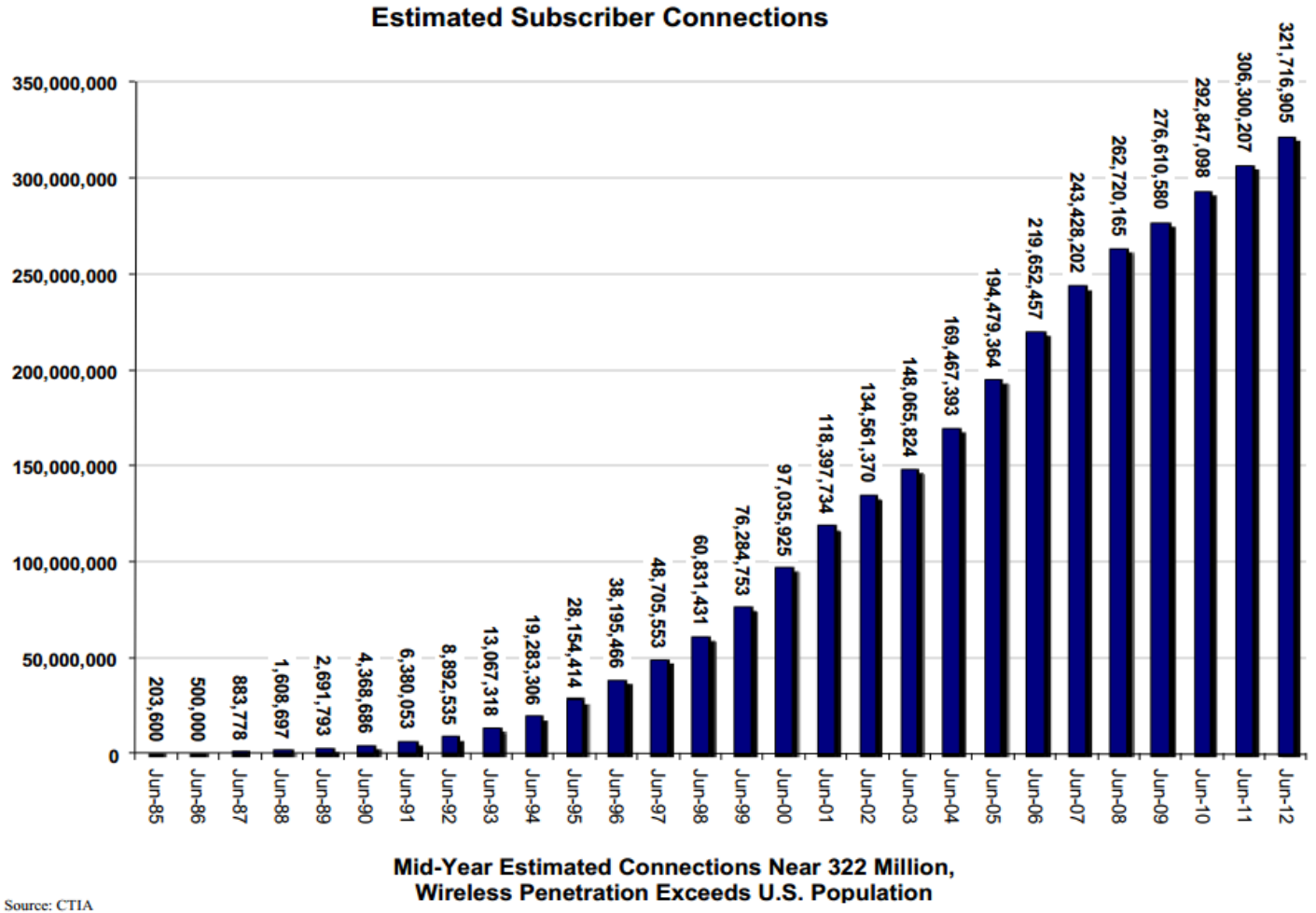
ITIS, LLC All Rights Reserved

Cell Phone Vulnerabilities

- Spyware
- SMS Readers
- Location Tracking

ITIS, LLC All Rights Reserved

Wireless Subscribers



Source: CTIA

© 2012 CTIA-The Wireless Association®

ITIS, LLC All Rights Reserved

Wireless Quick Facts

Year End Figures – CTIA

Topic	Dec. '15	Dec. '14	Dec. '13	Dec. '10	Dec. '05
Wireless Subscriber Connections	377.9M	355.4M	335.6M	269.3M	207.9M
Wireless Penetration	115.7%	110%	104.3%	94.2%	69.0%
Wireless-Only Households[1]	48.3%	47.0%	39.4%	29.7%	8.4%
Annual Wireless Data Usage (in MB)	9.65T	4.06T	3.23T	388.0B	N/A
Annual Voice Minutes of Use	2.881T	2.455T	2.618T	2.241T	1.495T
Annual Text Messages	1.89T	1.92T	1.91T	2.05T	81.21B
Annual Multimedia Messages	218.5B	151.99B	96.1B	56.6B	1.1B

ITIS, LLC [illegible] Reserved

Cell Phones & Convergence

- What capabilities does your cell phone or PDA possess?

1. Make & receive calls
2. Send & receive text messages
3. Send & receive e-mail
4. Surf the web
5. Play music
6. Take & store photos
7. Take & store videos
8. Record & store audio notes
9. Contact Manager
10. GPS Device
11. Calculator
12. Video game player
13. Download & play TV & Movie
14. A cellular modem for your laptop
15. Wireless LAN allowing up to 5 devices to use the phone's modem for Internet access
16. E-Book reader
17. Alarm monitor & DVR
18. Credit card replacement
19. Bluetooth Device
20. Projector

Plus thousands of iPhone & other phone applications

ITIS, LLC All Rights Reserved

Cell Phone Vulnerabilities

- You are carrying a portable computer with all those capabilities!
- What personal information is on your phone today?
  - Private contact info
  - PINS, passwords, account numbers
  - Work and family addresses, photos
  - Work E-mail & Text Messages
  - Calendars & GPS info.
  - Recent Call History

But How Safe is that Information?!?

ITIS, LLC All Rights Reserved

Other Cell Phone Vulnerabilities

- 17-year-old arrested for hacking into phones, stealing and distributing explicit images of children by Lisa Vaas on March 25, 2013
  - A teenager has been charged with distributing child pornography he allegedly hacked out of minors' cellphones with a bogus mobile text ad that installed phone-controlling malware.
  - The individual sent text messages to victims from a company called "Maxi Focus Photography".
  - When victims clicked on a link in the text message, it installed malware that essentially gave him access to all information stored on the phones.
  - He acquired nude photos and uploaded them to porn sites.

ITIS, LLC All Rights Reserved

Is Your Mobile Phone Protected?

> In Chicago, more than 85,000 phones were found in taxis--about four for every taxi in the Windy City. - PC World

- If you lost or someone got a hold of your cell phone today what information would you be you be providing a Stalker!
  - Is your phone lock? If not DO IT? How???

http://www.fcc.gov/smartphone-security

ITIS, LLC All Rights Reserved

Cell Phone Spying

- Apps specially designed to intercept and track your communications

ITIS, LLC All Rights Reserved

Other Cell Phone Vulnerabilities

What other information can your cell phone be revealing about you?

Cell Phone Tapping with Spyware

Cell Phone Spying

Internet resource on cell phone spy software:

http://acisni.com/

ITIS, LLC All Rights Reserved

Cell Phone Spy Programs

LOG VIEWERS

- View SMS Logs
- View Call Logs
- View GPS Logs
- View URL Logs
- View Photo Logs
- View Contact Logs
- View Email Logs
- View Calendar Logs
- View Cell ID Logs
- View Task Logs
- View Memo Logs

USER TOOLS

- Search Logs
- Clear All Logs
- Logs Summary
- CSV Format
- Change Password
- User Settings
- Logoff Account

BBB ACCREDITED BUSINESS

ITIS, LLC , All Rights Reserved

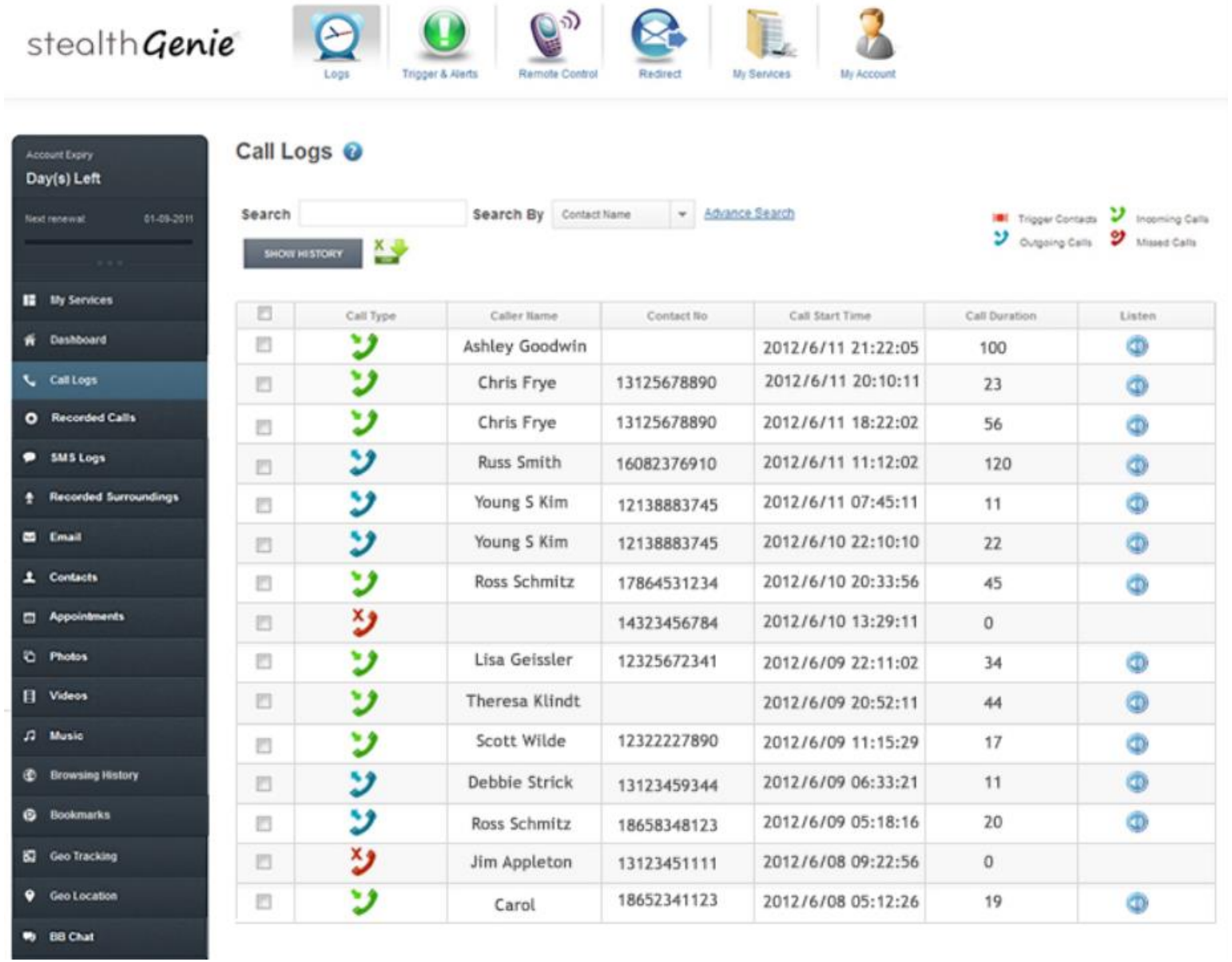
Phone Sheriff

ITIS, LLC All Rights Reserved

Spy Software for Tablets

- Peektab is a multiplatform (iPad, Android, & Blackberry tablets spy software that runs silently in the background and is not detectible by the user. It records all activity by a user and uploads it to the web where it can be reviewed. Marketed to parents, spouses and employers.

ITIS, LLC , All Rights Reserved



ITIS, LLC All Rights Reserved

Head of 'StealthGenie' mobile stalking app indicted for selling spyware

10-2-2014

- US officials say is the first-ever case of its kind, the maker of a mobile spyware app marketed at people who want to stalk their partners has been indicted according to the DOJ.

- To adhere to the legal side of the line, monitoring apps have to be marketed at employers who want to keep an eye on their workers, or guardians who want to watch over their kids.

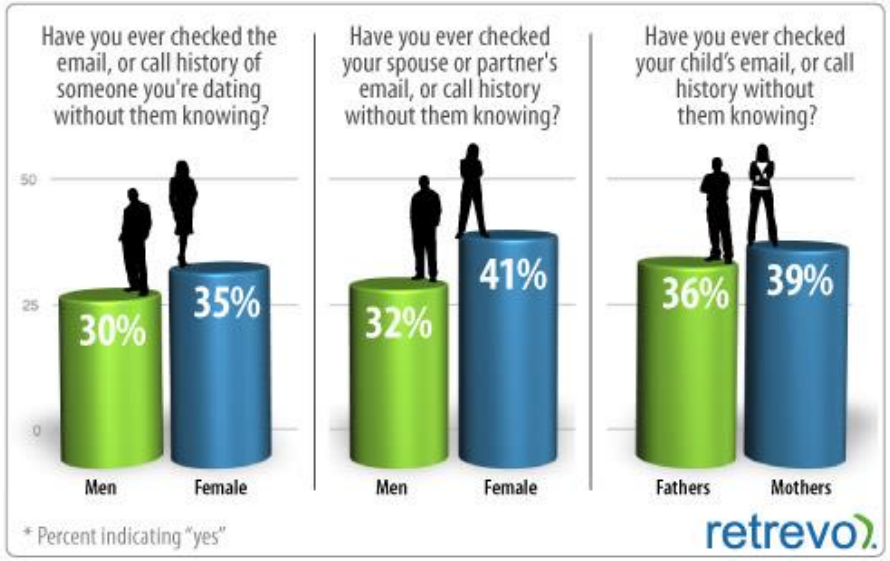
ITIS, LLC All Rights Reserved

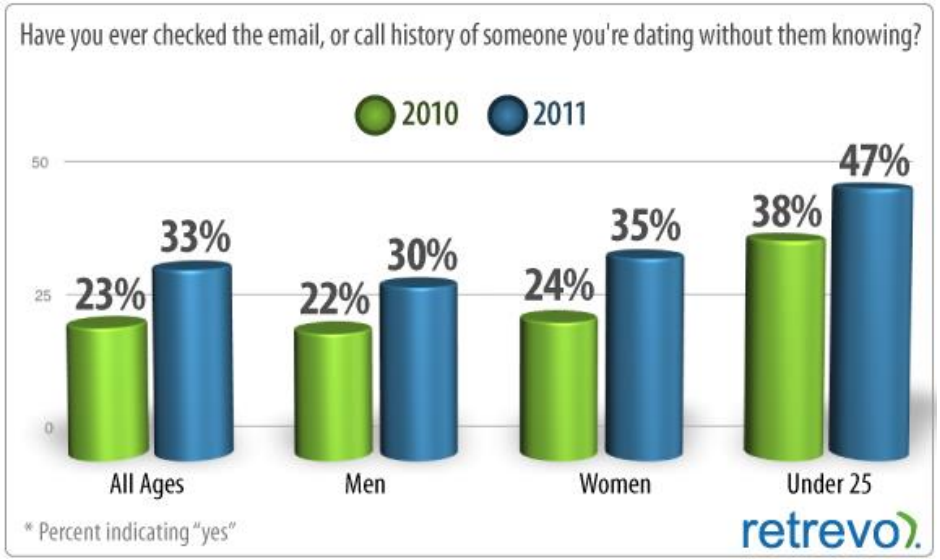
PowerOffHijack

- Android malware – discovered by AVG
- It hijacks the shutdown process of user's mobile phone.
- User thinks they powered the phone off and it looks powered off, but the phone remains on!
- GPS, camera, microphone continues to function so phone can still be spied on.

ITIS, LLC All Rights Reserved

Who is doing the spying on your Cell Phone!





More than likely it is a close aquaintance or family member!

ITIS, LLC All Rights Reserved

Other Cell Phone Vulnerabilities

- Location tracking
  - smartphone app, carrier app, or spyware
    - Foursquare, Gowalla, Locimobile, Google Latitude
    - Verizon Family Locater
    - AT&T Family Map
- Data taken from SIM Card – SIM Card readers
- Data taken from Micro SD Card

ITIS, LLC All Rights Reserved

Cell Phone Security Tips

- LOCK PHONE!
- Turn off location Services for some apps
- Review Apps before loading them. Know what info they will access!
- Checkout:
  - http://www.fcc.gov/smartphone-security

ITIS, LLC All Rights Reserved

Cell Phone Security

ITIS, LLC All Rights Reserved

Cell Phone Security Tips

- www.ctia.org/your-wireless-life/consumer-tips/how-to-deter-smartphone-thefts-and-protect-your-data#anti-theft_apps

- In sensitive meetings ask others to leave their phones outside or remove their battery.

Cell Phone Security Tips
What You Can Do?

- Don’t let your phone out of your possession.
- If your phone is lost or stolen notify the carrier to suspend service
- If you think it has been compromised
  - Check battery life (is it going down faster)?
  - Does screen flash occasionally?
  - Does the phone get warmer?
  - What can you do?
    - Reset Phone or Take it to the carrier.
  - Be sure to remove media from old phones

ITIS, LLC All Rights Reserved

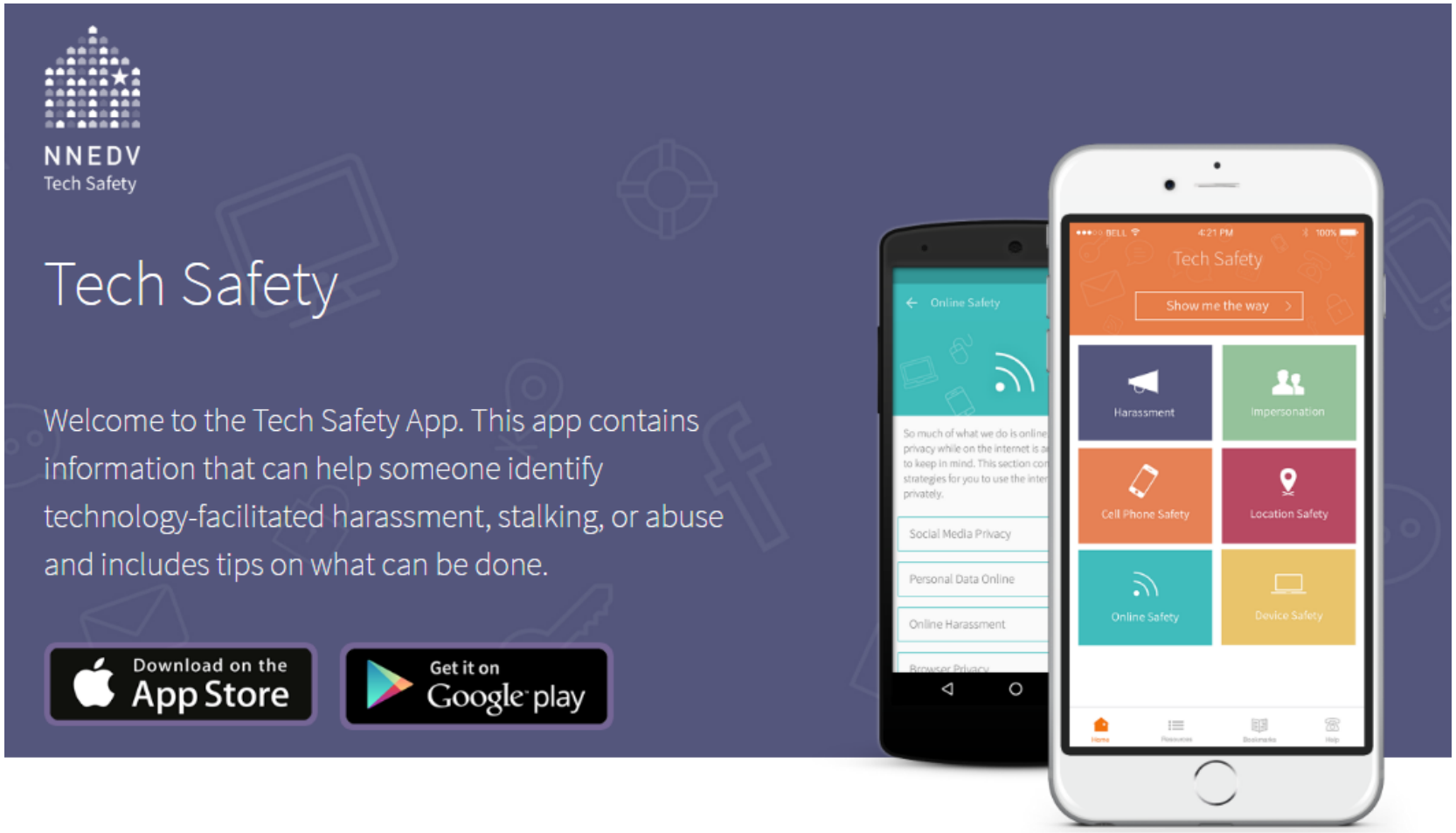
Cell Phone Security Tips

- Remember if you can remote wipe and track your phone so can your target if you seize his!!
  - Talk with forensic personnel or cell phone company about the best way to handle a seized phone (power off, airplane mode, remove battery…)

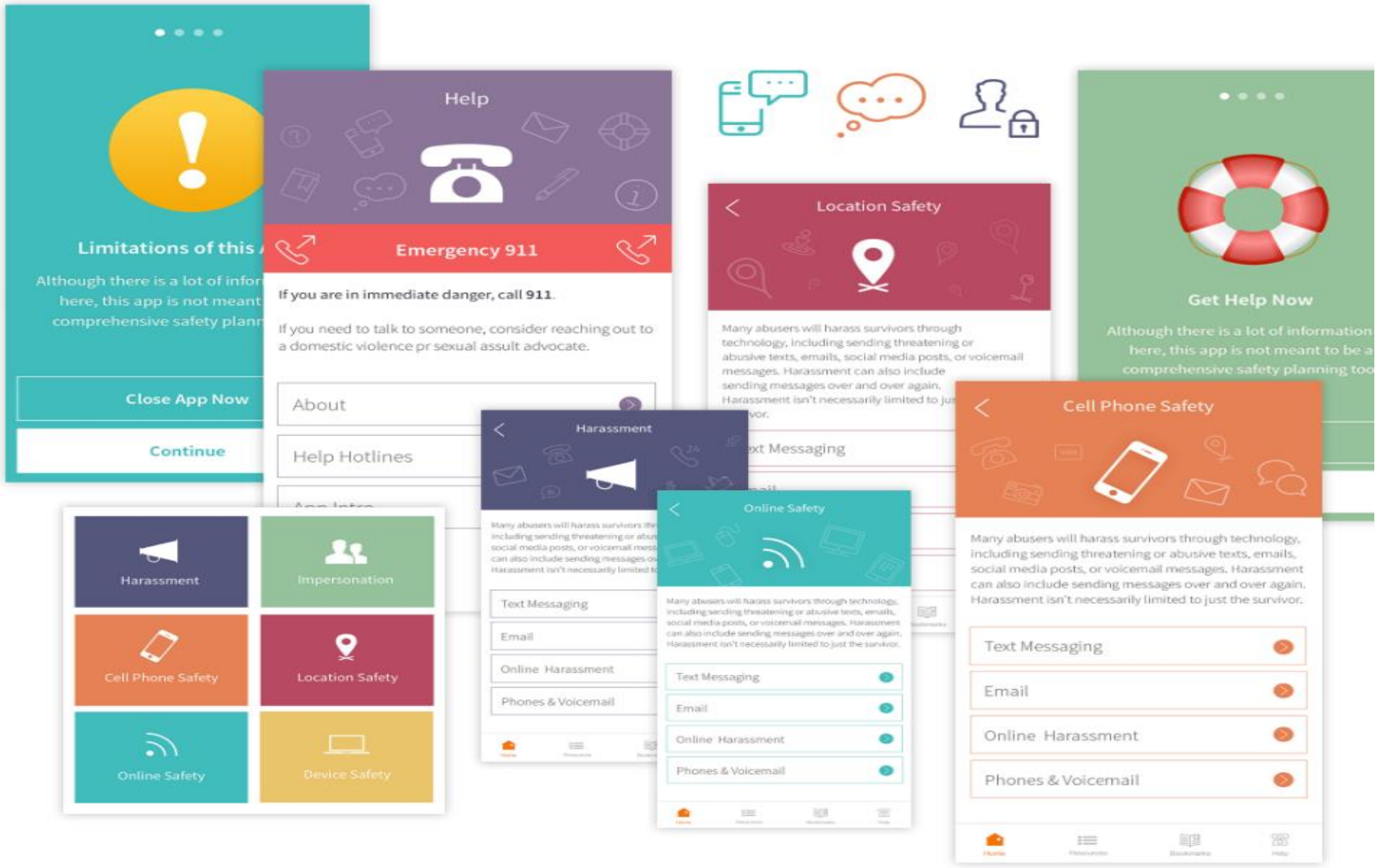
Mobile Phone Seizure Flowchart

ITIS, LLC All Rights Reserved

National Network to End Domestic Violence



ITIS, LLC All Rights Reserved



ITIS, LLC All Rights Reserved

NNEDV-Tech Safety App

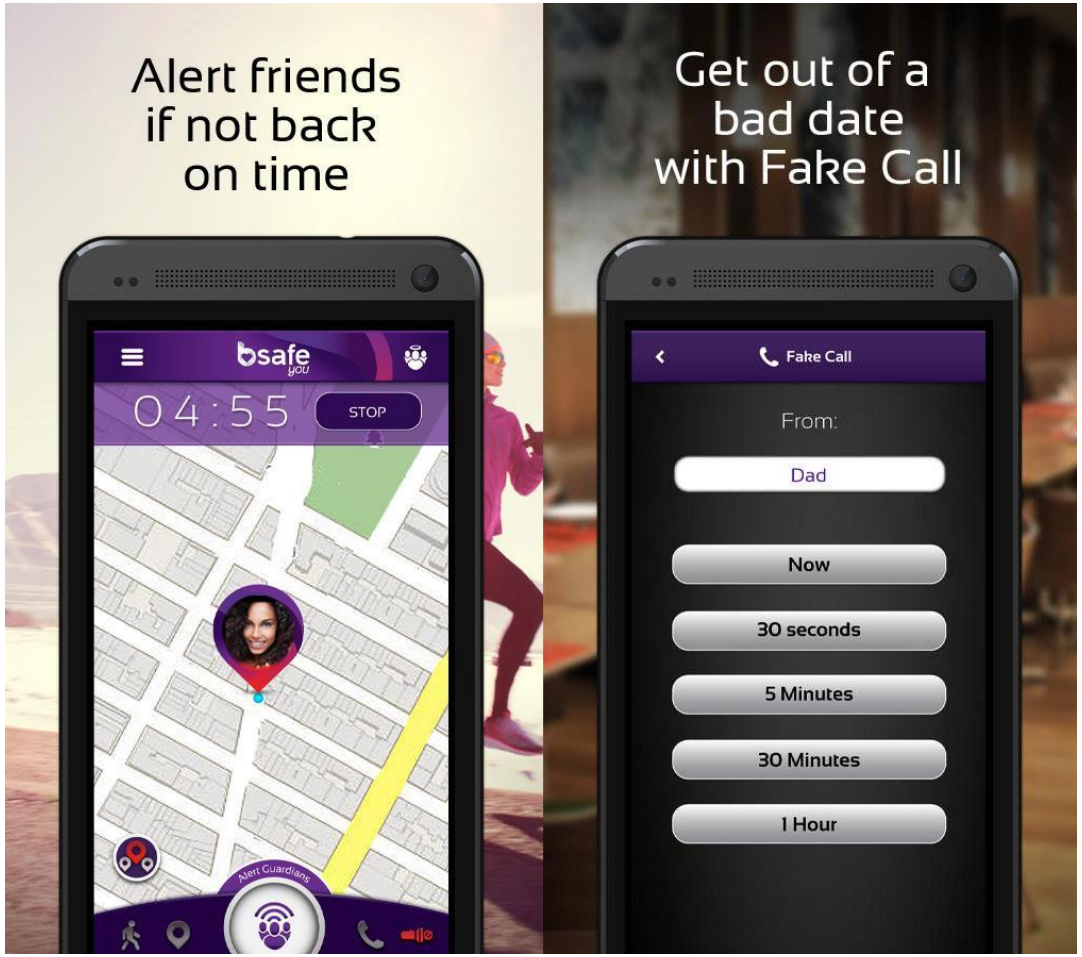
- This educational and resource app was created for anyone who thinks they might be experiencing harassment or abuse through technology or wants to learn more about how to increase their privacy and security while using technology.

- Use this app as a guide or a starting point, but if you are being abused or harmed, consider reaching out to someone. You can talk to a domestic violence advocate, sexual assault counselor, police, or someone you trust.

ITIS, LLC All Rights Reserved

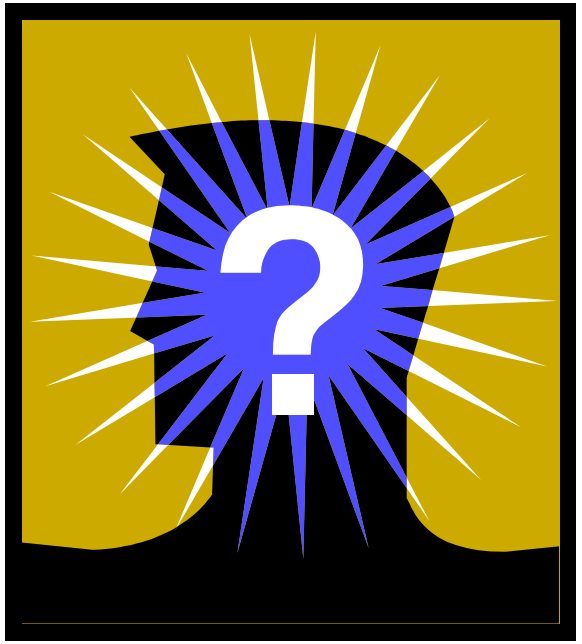
Bsafe App

- Set up your own social personal safety network of friends.
- Ask friends to walk you home with Follow Me's live GPS trace, or help friends stay safer by walking them home from wherever you are.
- Use I'm Here to tell selected people where you are right now
- Use Fake Call to make the phone ring when you want it to. You can even define who the call should be from
- And in case you are ever in trouble, the Guardian Alert button will immediately notify your friends and family members that you need help, and let them know where you are (GPS)



ITIS, LLC All Rights Reserved

Questions



ITIS, LLC All Rights Reserved