

Beyond
“I Fought The Law”
*Educating Law Enforcement about
Privacy Services*

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(Presented at PET2003)



Motivation

- 3 Years at Zero Knowledge Systems
- Freedom Network didn't succeed
 - Problems was sales, not law enforcement
 - LE moved from scared to a customer
- Not enough remailers, privacy services
- Some potential operators are scared
- Share learning
- See more privacy technology deployed



The *Cypherpunk Attitude*™

- Is lots of fun
 - Has brought enormous publicity
 - Has encouraged a great deal of leading work
- Is a liability in talking to LE
 - Doesn't do any good
 - Generates resistance and hostility
- Most cops are decent people
 - Trying to solve crimes, help people
 - Initial impressions are very important



Mellontraffickers.com

- Is a fine domain
- Got Len in trouble
- He hasn't changed it
- Compare and contrast



Basic Message

- Privacy reduces crime
 - ID theft
 - Spam
 - Stalking
 - Crypto is not an unmitigated anything
- LE should be in favor of privacy
 - Lets get along
- Method can be used with any privacy service



Delivered Message Regularly

- At ZKS Offices
- At RCMP, Interpol meetings
- Over phone
- Had LE outreach materials ready at abuse, legal, elsewhere
- Slides will be under <http://www.homeport.org/~adam/zks/>



How to Present

- This is why we do what we do
- Here's how it prevents crime
- Here's why we don't log
- Here's how you can make progress
- Avoid
 - “Bugger off”
 - “I know your job more than you”
 - Taking this talk as legal advice



Why We Run Remailers

- Privacy prevents crimes
 - Stalking
 - ID theft
 - Spam
- Privacy is a Social Good
 - Whistleblowing
 - Communication
 - Schoeman's "Philosophical Dimensions of Privacy"



Prevent Crime

- This is a key point
- Preventing crime is better than solving crimes
- “Would you prefer a lock or a video camera?”
- Easy examples: Crypto prevents CC theft, password theft



Crypto Hinders Criminals & Investigators

- Crypto can prevent crime:
 - Encrypted data harder to steal, monitor
 - Can't sniff passwords
 - Can't forge authentications
- Crypto can make investigations harder
 - Can't read everything the bad guy says, stores
 - Their job is about investigation, not prevention
 - So, naturally police are very aware of this side of things, and sometimes miss the larger picture



Ok, but the logs?

- We don't log because logs can be abused
- Available to anyone with a subpoena
 - Raises cost of running remailer
 - Creates a security risk
- We don't know how to create a remailer where only the police can read the logs
 - (Blaze's broadcast escrow impractical to deploy)



More on Logs, back doors

- DMCA Subpoenas
- Very hard to engineer security systems
 - Even harder to engineer backdoors
 - Clipper Chip example
- Which legal system?
 - Freedom Network ran in 10+ countries



How to Investigate

- You are selling remailer system/privacy
- In sales:
 - Agree, Align, Convert
- Don't start by arguing
 - "You're just trawling"
 - "That's awful, what can I do to help?"
 - "Actually, we don't keep logs. Let me explain why."



Know the Case Law

- Put the right to anonymity in context
 - *McIntyre vs. Ohio*
 - *NAACP vs. Alabama*
 - *Federalist Papers*
- Abuse of subpoenas
 - *Northwest airlines and their union*
- Clearly, this is US case law
 - Know your local law



How To Investigate (more)

- “Clearly, I am not an investigator”
- Think about the basics
 - Means, motive, opportunity
 - Undercover work
 - Use privacy service to communicate with criminals
 - Privacy is a two-way street



What A Privacy Service Offers

- Communicate without a name attached
- Block basic sniffers, logs
- Explain the limits of the remailer system
 - You can't shoot someone through it
 - You can't bring down the power grid with an email
 - Doesn't stop hacking suspect's computer
 - One on one surveillance



Summary

- Overview of ZKS' law enforcement message
- Overview of the thinking which drove it
- Lessons for the privacy technology world



Conclusions

- Biggest problems are not technical, or even legal, they're in business & economics
 - Press, analysts had trouble understanding Freedom Network vs Anonymizer,
 - MIX nets, real time and batch, need more users in their anonymity sets
- Police and national security have an interest in these systems existing