

Privacy On The Internet

Recent Events

- Revolutions.
- Michigan State Troopers.
- Mobile location tracking.

“digital” revolution?

digital surveillance

immediate

back story → 1994

Communications Assistance for Law Enforcement Act (CALEA)

US Telcos
US Law Enforcement
US Criminal Suspects

specific policy → broad technology

outfit with new equipment

Cisco, Nokia Siemens, etc...

a new niche industry is born

Narus, Verint, etc...

one set of hardware

sets the stage

everyone gets surveillance

dangerous

Vodafone Greece 2004-2005 Wiretaps

Prime minister, Athens mayor,
ministry of defense, ministry of
foreign affairs, ruling party, etc...

Attackers leveraged unused CALEA
compliant intercept capabilities

single law \rightarrow the world

policy specific → technology broad

strong economic drivers

deliver across contexts

“information wants to be free”

“surveillance wants to be pervasive”

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UFED PHYSICAL PRO

Unmatched support for mobile devices

Logical Extraction 3,000 +
Physical Extraction 1,100 +
File System Dump 1,000 +
Password Extraction 650 +



[\[learn more\]](#)

Cellebrite
“mobile data secured”



“Forty joint expeditionary tasking Airmen, along with other members of the Joint Intelligence, Surveillance and Reconnaissance Tactical Documentation and Media Exploitation Team in Iraq, are helping Iraqi government officials to establish their own documentation and media exploitation mission. Airman 1st Class Luke Howell **shows Iraqi soldiers how to use a CelleBrite machine to gather intelligence from a phone** Jan. 5, 2011, on Joint Security Station Constitution, Iraq.”



UFED PHONE DETECTIVE
Identify phone types instantly

[\[learn more\]](#)



“upgrading your phone is easy!”



policy → technology → pervasive

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the deal

- Apple, Google, Microsoft are tracking your movements.
- Transmitting those movements back to themselves.
- The fate of this data is unknown.
- The data is often cached on the devices.

- Forensics people were too proud to keep their mouths shut.
- “We've been incorporating this into our products for years!”

We Know This

- Every phone call you make.
- Every app you use.
- Every text message you send.

“What's the difference between a government-mandated tracking device and a mobile phone?”

choice

technology ↔ society

!technology == !society

- Look out for pervasive surveillance.
- Deal with the choices that aren't really choices.