

From Target Marketing to Total Surveillance:



A Survey of Orwellian Technologies

Introduction

- Psst. This will not be an impartial evaluation.
- Here are my assumptions:
 - ID requirements are totally ineffective
 - “Improving them” will only make things worse
 - Profiling cannot catch “bad guys”
 - In fact, it creates and enables them
 - Massive data collection is questionable
 - Government purchase of this data is barely legal
 - We are facing a very dangerous future
- Adjust your bias filters, opinion lurks within (as always)
- That said, the following information is entirely factual
 - (To the best of my knowledge)

Nothing to Hide

- 4 years ago posted to membership-I about USAPA I
 - Most common response: “I have nothing to hide”
- So lets do a survey. How many people:
 - Think they have nothing to hide?
 - Think this is a good reason for total surveillance?
 - Take medication for depression or any other chronic condition?
 - Have a family history of diabetes, cancer or mental illness?
 - Are atheist or non-Christian?
 - Are not on good terms with parents/relatives?
 - How many dates do you go on/month? Sex?
 - Would like to describe what they do every day?

“Of course I don’t want to tell YOU”

- We make sure that those who have the data are trusted, right?
 - Only if being rich or well connected is our metric of trust.
 - All of this information is currently available to anyone with enough money to buy it
 - Or with a friend/relative in:
 - Law Enforcement, Marketing, Insurance, Transportation, Private Investigation, Banking/Credit/Financing
 - Furthermore, data aggregators now provide \$40 software that can perform background checks
 - Not to mention crackers/carders..
- In short: A whole lot of people.

“To make an omelet...”

- Probable cause exists for a reason
- The law can be and is used as a weapon
 - Police in Canada attempted to frame journalist for exposing ineffectiveness of traffic cameras
 - Used database to determine his favorite bar
 - Attempted to frame him with a DUI
 - Enemies, jealous ex-lovers, etc.
 - MLK persecution
 - The Drug War’s use by FBI during 60s
- Following the letter of the law is impossible
 - Large potential for abuse
 - Imagine the full details of your life being available to the cop at a traffic stop. In Utah. This is happening.
- The Surveillance State is a danger to itself

The War on Anonymity

- Heavy handed regulation opens markets for defeating it
- ID requirements encourage ID forgery and theft
 - Data aggregation makes this easier
 - Criminals are undetectable, yet innocents profiled
- Possible Future Scenario:
 - “Get tough” on ID (Example: REAL ID)
 - Creates national market for fraudulent/stolen ID
 - To stop this: Mandatory biometrics/DNA DB
 - » Criminals and innocents alike begin operating through hired proxy to avoid total surveillance. Large-scale criminals can afford this. It’s just margin/operating costs.
 - » Result? Wasted tax \$. No real surveillance. Many non-violent people in prison.

The Law



We fought the Law...

- It turns out McCarthyism is a Bad Idea...
- Privacy Act of 1974
 - Enacted because of rampant government abuse against political opposition
 - FBI was abusing electronic search and seizure to conduct smear campaigns (Cointelpro)
- 4th Amendment interpreted to include communications.
- Electronic Communications Privacy Act of 1986
 - Protected digital communication from warrantless search
- Anti-Terrorism Act of 1996
 - Much of it was ruled unconstitutional and ineffective

And the Law Won.

- In 1990, Bush I removed restrictions on selling financial information.
- The Gramm-Leach-Bliley Act of 1999
 - Touted as financial privacy legislation
 - Made it easier to exchange/sell data
- CALEA
 - Being extended to mandate Internet surveillance equipment at ISPs/the Backbone
- E911 and FCC mandates
 - GPS data is not protected information
 - Most Phones transmit at all times
- REAL ID
 - Snuck in to military spending approvals

Patriot I

- Recently renewed
- Section 215
 - Eliminates Probable Cause for obtaining personal info
 - Medical and Psychiatric Records
 - Magazine and book purchasing
 - Membership lists of organizations
 - Library usage data
- Sect 505+Int Auth Act 374: National Security Letters
 - Recipient cannot disclose
 - Zero oversight, let alone probable cause
 - Can demand just about any data
 - Used extensively (6 pages of names in 1st 1.5 yrs)

Patriot I - cont'd

- Section 216
 - “Pen register” taps on internet/phone communications
 - No probable cause required
- Section 326 - “Know your Customer”
 - Financial institutions are required to take ID and check against “watch lists”
 - Also Jewelers, pawn brokers, car dealerships
 - Encourages ID theft and creates market for forgery
 - Does not catch criminals

Court Decisions

- Privacy policies are not contracts (Northwest)
 - Can also be changed at any time
 - “Governed” by the FTC, but can still be misleading
- You do not own your name
 - Ram Avrahami vs US News
 - Virginia: “Illegal to distribute names w/o consent”
 - Dismissed on technicality: His name was misspelled.
- No legislation protects location data
 - Currently being argued if 4th Amendment applies

Outdoing the Stasi

- Stasi were the East German Secret Police
- Most pervasive secret police force in history.
 - 1:50 informant:population ratio
- The goal of the TIPS informant program was 1:24
- TIPS was canceled in name, but lives on in many forms
 - Up until last month, tips.fbi.gov still took tips
 - Marine, highway, and community watch programs still exist and collect tips
 - Military involved also
 - Airforce Project Eagle Eyes
 - All tips are stored and cross-referenced in federal, state, and local databases

Recent Victories

- TIPS
 - As mentioned above, cancelled in name only
- IAO TIA
 - Goal was to build a complete profile on everyone
 - Dismantled by Congress. Funding cut.
- MATRIX
 - Massive inter-state information exchange system
 - Canceled, may live on through REAL ID
- States are passing anti-Patriot Act legislation
 - California: Undocumented motorists way up

Lobbying and Revolving Doors

- Data aggregation firms lobbied heavily after Sept 11th
 - Acxiom
 - \$380,000 to Wesley Clark for 9/11 contracts
 - Pushed for greater access to DMV and credit info
 - ChoicePoint
 - Increased lobbying 4X to \$400,000/yr after 9/11
 - TIA was proposed by Syntek
 - VP John Poindexter appointed head of the IAO
 - MATRIX system proposed by Seisint in Florida
 - National ID and database lobbying by Larry Ellison
 - (Turned out to be drunken boasting)
 - 569 other registered “homeland security” lobbyists

Implemented Technology



Data Aggregation

- Major data aggregators digitize govt records, purchase data from schools, banks, and credit card companies.
 - ChoicePoint, Experian, LexusNexus, Axcion
 - Makes ID theft both easy and dangerous
- Abacus Direct
 - “Confidential Alliance” of contributor’s data sources
 - The contributors are confidential, not your data!
 - Effectively says: “You need not worry about that pesky privacy policy”
- “Medical Information Bureau”
 - Hospitals and caregivers prevented from revealing info by HIPAA (to commercial interests, FBI is a-ok)
 - Collect info from CC and bank statements instead! Sell it to insurance companies.

Government Databases

- Federal Dept of Education
 - Maintains years worth of records on everyone
 - Can be searched without probable cause
- Pentagon Database of Children 16-25
 - Used primarily for military recruiting
- CIA's Quantum Leap
- Able Danger
 - Allegedly uses face recognition to correlate "suspicious persons"
- Project Talon
 - Pentagon database of reports

Surveillance Industrial Complex

- Despite all this bad news, it is still illegal for the government to maintain information on individuals not suspected of any crime.
- Solution: Let the private sector do it, then buy what is needed off of them
 - DOJ has \$8m contract with ChoicePoint
 - ChoicePoint has 35 other gov't contracts
 - No audit trails on government access
 - Seisint Board member had ties to drug smugglers
 - “Voluntary Request” provides oodles of free data from corporations seeking favors
- Some police depts now provide PDA devices with access to private sector DBs

Watch Lists

- Project Lookout
 - Original FBI watch list
 - 1000 Entries
 - Circulated entirely out of control
- Watch lists are now bloated to the point of uselessness
 - Between 5-13 million names, including ex-cons and “suspicious” persons used at border
- Financial institutions must check applicants against lists
 - More incentive for ID theft

Watch List Problems

- No due process
- Negative bureaucratic incentive to remove names
 - Hard to justify removal. No one wants blame
 - Easy to justify leaving names. “Just being safe”
- Once distributed, difficult to correct
- In some areas, police officers have access to this data at the scene
- 80% of employers already perform background checks w/ data aggregators. Unknown what % use watch lists.
- Powerful tools for political persecution
 - First No Fly List contained major 3rd party figureheads

Internet Surveillance

- Eschelon
 - Once rumored, now confirmed international surveillance net
- SpyWare
 - Gathers marketing data and more sensitive info
 - Heavily linked to SPAM
 - MediaSentry
 - RIAA Spyware that watches for “illegal” copies of music
 - Horribly flawed
- Customer profiling rampant
 - DoubleClick
 - MSN Search

Internet Surveillance

- Amazon.com
 - Able to classify with frightening accuracy the books you like
- Google - now links gmail account to cell phone #
- As mentioned above, have to take it on good faith that companies are not violating their privacy policies
 - Even if they are following them, what of “voluntary disclosure” and National Security Letters?
- Law enforcement
 - Carnivore
 - Lots of hype. Basically just email sniffer
 - Complete Session capture systems are in development

Data Mining

- Too much data, too few eyes
 - Using artificial intelligence to extract features and classify examples based on features
- Used heavily by insurance and financial companies
 - Identify “Risk factors”
 - Introduces incentives for employment discrimination
- Political profiling
 - Used in 2004 to identify supporters
 - The next election will be decided by who delivers targeted messages better
 - Ability to give people a reason to vote
 - Can be determined from buying habits, donations, volunteer group affiliation

Bonus Round

- Printers secretly encode identifying information
 - Are there really that many ransom notes?
 - Are criminals going to buy a printer with a credit card? With their credit card?
 - What of anonymous whistle blowers?
 - What of pamphleteers?

Potential Technology



Profiting from Oppression

- Anyone interested in potential Orwellian technologies needs to look no further than China.
- Instead of bringing democracy, unrestrained corporate greed has caused technical progress to bring totalitarian oppression.
- Police state built and maintained by numerous US companies. 100% moral (and legal) bankruptcy.
- Foreign Relations Authorization Act of 1990
 - Assisting censorship is legal, assisting police is not.
 - Cisco engaged in PR/Disinformation campaign
- Many of these companies turn around and lobby for use of their technology for National Security
 - Cisco and Nortel proposed building a Great Firewall in the US shortly after Sept 11th

Will the Invisible Hand Please Stand Up?

- Cisco
 - Built Great Firewall at discount to corner router market
 - Video and telephone surveillance networks
 - Shockingly invasive police database (Policenet)
 - Buying habits and physical location history
 - Net access history, web posts and email
- Nortel
 - Developed network traffic analysis system dedicated to catching political opposition (Falun Gong)
- Motorola
 - Provided encrypted data network to police
 - Competed with Nokia to provide location tracking

Increasing Shareholder Value

- Sun Microsystems
 - Developed national fingerprint database
 - “Facecatch” - National face recognition system
- Nortel, Netfront, RSA Security, WatchGuard
 - Provided surveillance infrastructure
- Microsoft
 - Censors words in blog software (eg: “democracy”)
- Yahoo
 - Actively collaborates in tracking state political opponents via their email, search and chat usage
- Google
 - Censors prohibited sites/queries from search
 - Alters news results to favor nationalized news

Biometrics

- Real Time Face Recognition
 - Too inaccurate for security surveillance, just fine for marketing
 - Shared databases of avatars
 - Where did you go today?
- DNA database initiatives gaining momentum
 - Already maintain DNA of convicted criminals
 - Bills being tossed around to move this to anyone ever arrested
 - States are free to implement own laws
- Low cost DNA gatherers/classifiers are in development
- Genetic Profiling
 - Employment and insurance discrimination

Location Data Mining

- RFID
 - Passports, consumer goods, REAL ID, I-Pass
 - “What have you got in your wallet?” or your car?
- E911
 - Already under abuse by DOJ/FBI
 - Data unprotected for collection by data aggregators. This data is immensely valuable
 - What stores did you visit today? You used cash? No problem!
- OnStar/Vehicle Emergency Systems+GPS
 - Ruled illegal to monitor only because it disables use
 - This is only a technical hurdle..
 - Again, GPS data is legally unprotected

Internet Surveillance

- Ability to capture and replay specific IP sessions
- Long term classification of email is extremely valuable
 - Google might not do it now, but what happens if Yahoo makes a killing. Google is a public company. Do the shareholders care about their motto?
- Likewise with competition between the IM networks
- Widely distributed IP to Street Address mapping
 - DoubleClick intended to build, then backed down
 - Better ad targeting
 - Surfing habits can be universally indexed

Wrap Up



What can be done?

- Do not work on projects used to further the surveillance state
 - Report such projects at your workplace
 - Be aware of your company's motives
- Stay informed
 - Politech, EFF, EPIC, ACLU
- Inform others
- Decide if target marketing is a valuable service
 - Some think it is. Most, however, agree that gov't purchase of this data is wrong.
- Write your representatives
 - And hope it doesn't get you on a watch list :)

Weathering the Storm

- The Achilles heal of most data aggregators is the SSN
 - This is PRIMARY KEY
 - Protect it. Only your bank and your employer legally require it.
- Also protect address/telephone number.
 - Get a UPS box. (Not Post Office – data is sold)
 - Do not file change of address forms – also are sold.
- File cumbersome paperwork with your bank and credit card companies
 - Their goal is to make it difficult
- Do not write checks
- See “How to be Invisible” by JJ Luna for more info.