Mass state surveillance and global internet governance

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SNOWDEN SURVEILLANCE ARCHIVE

The Snowden Digital Surveillance Archive

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http://snowdenarchive.ca/ http://cjfe.org

Open, indexed, searchable archive of published Snowden documents for journalist, academic and lay research

(TS//SI//NF) Introduction

U.S. as World's Telecommunications Backbone

- Much of the world's communications flow through the U.S.
- A target's phone call, e-mail or chat will take the **cheapest** path, **not the physically most direct** path – you can't always predict the path.
- Your target's communications could easily be flowing into and through the U.S.

International Internet Regional Bandwidth Capacity in 2011
Source: Telegeography Research

"Collect it all" Five Eyes signal intelligence interception

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Interceptions (Boundless Informant - Mar 2013)

Total DNI = 97,111,888,358 (internet interceptions)

Total DNR = 124,808,692,959 (telephone records)

NECESSARY & PROPORTIONATE

INTERNATIONAL PRINCIPLES ON THE APPLICATION OF HUMAN RIGHTS TO COMMUNICATIONS SURVEILLANCE

Goal: “ensuring that laws, policies, and practices related to Communications Surveillance adhere to international human rights laws and standards and adequately protect individual human rights such as privacy and freedom of expression.

Based on international human rights law

- Universal Declaration of Human Rights (Articles 12 and 29)

Endorsed by over 600 organizations and over 270,000 individuals worldwide.

Necessary & Proportionate - 13 Principles

1. Legality
2. Legitimate aim
3. Necessity
4. Adequacy
5. Proportionality
6. Competent judicial authority
7. Due process
8. User notification
9. Transparency
10. Public oversight
11. Integrity of communications and systems
12. Safeguards for international cooperation
13. Safeguards against illegitimate access and right to effective remedy

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IXmaps

see where your data packets go

Home | Tour | Explore | Contribute | Transparency | News | FAQ | About

Who's looking at your data?

The U.S. National Security Agency (NSA) engages in warrantless internet surveillance. Mark Klein, a former AT&T technician turned whistleblower has revealed that the NSA has installed surveillance equipment at AT&T's main switching centre in San Francisco capable of intercepting all the data passing through it. The NSA is strongly suspected of operating similar spying facilities in 15-20 other U.S. cities. For example, one of our routes shows that data packets from Toronto to the San Francisco Art Institute pass through several such suspected sites. Learn more about who's looking at your data...

IXmaps – Internet mapping platform

IXmaps

see where your data packets go

- Crowdsourced traceroute generation & collection
  > 150K TRs ~ 26K IP addresses
  > 600 contributors/origins ~ 4K destinations
- Systematic geo-location of individual data packet hops
- Map traceroute paths via GoogleMaps (> OpenStreetMap)
  – NSA surveillance, Google data centres, submarine cable overlays
- Custom filtering of traceroutes
  – NSA interception, 'boomerang routing,' ISP, city, ….
- Links hops/routers to ISPs + privacy transparency scores

Suspected NSA splitter cities (18)

Can US traffic avoid NSA cities?

Intra-US traceroutes	IXmaps DB	Percent
Total	1319	100%
Thru NSA cities	1312	99%
Bypass NSA cities	7	<1%

Boomerang routing

Univ of Toronto > Ontario Gov (Toronto)

Network Sovereignty?

Canada to Federal Gov (.gc.ca) boomerang routes

Source: https:/**IXmaps.ca**/explore

Routes to Peking U,
not from the US but via US

In brief

- Unregulated mass surveillance by state and corporate actors presents a serious threat to the openness, security, privacy, diversity of the internet, eroding necessary legitimacy and trust
- Human rights law, and the 13 *Necessary and Proportionate* principles, provide a valuable framework for bringing surveillance activities within internationally accepted norms
- Within such a framework, the principle of **Transparency,** of internet operation and actors, is a necessary feature and fruitful site of internet governance research.

IXmaps

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See where your data travels!
(and contribute to the database)

http://IXmaps.ca

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