FRIEND OR FOE?

Whom to Trust in a World of PRISM, XKeyscore and related Programs.

Harald Reisinger

Managing Director (Research & Development) of RadarServices GmbH

ABOUT HARALD REISINGER

- University of Economics at Vienna, University of Nebraska at Omaha (USA)
- IT-Security Industry since 2001
- Certified Information Security Manager,ISO 27001 Lead Auditor
- Managing Director Research & Development of RadarServices GmbH

ABOUT RADARSERVICES GMBH

Providing continuousIT-Riskmanagement Services



- Unique service-approach by combining automated risk detection and human risk evaluation
- Combining different views on potential risk (Vulnerabilities, Network Anomalies, SIEM, System Changes, Compliance etc.)
- Headquarter in Austria, Branches in Poland, Russia and UAE (Dubai)

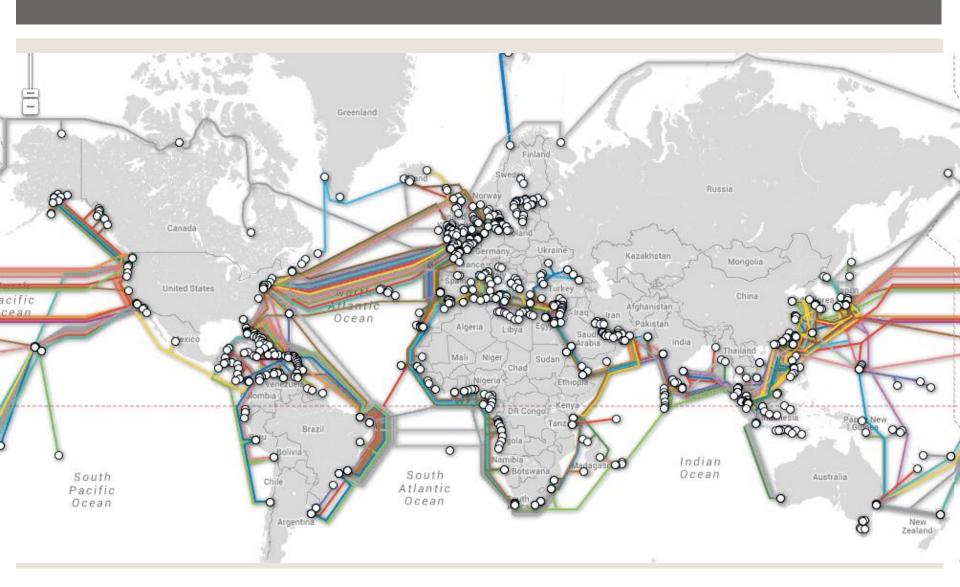
Trust

Whom to trust?

IN A CONNECTED WORLD...



THROUGH 880.000 KM OF SEA-CABLE...



THINGS USED TO BE EASIER...

We, the good guys

Them, the bad guys

Then, there was May 2013.

US\$ 52.600.000.000,00 Black Budget for US Intelligence in 2013

Of these US\$ 52.600.000.000,00

US\$ 11.000.000.000,00
for Consolidated Cryptology
Program

107.035 Employees +

21.800 Contractors

TOP SECRET//SI//ORCON//NOFORN

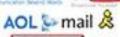










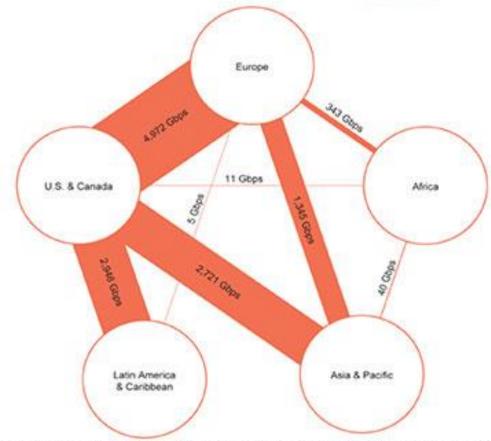




(TS//SI/NF) Introduction

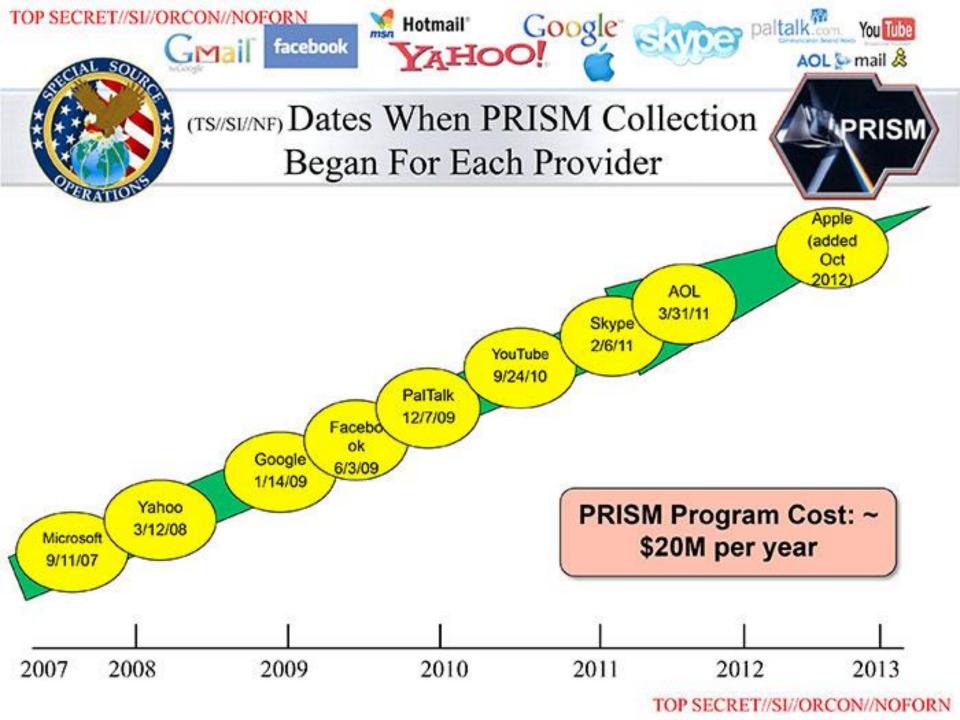
U.S. as World's Telecommunications Backbone

- 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

















(TS//SI//NF) PRISM Collection Details

Current Providers

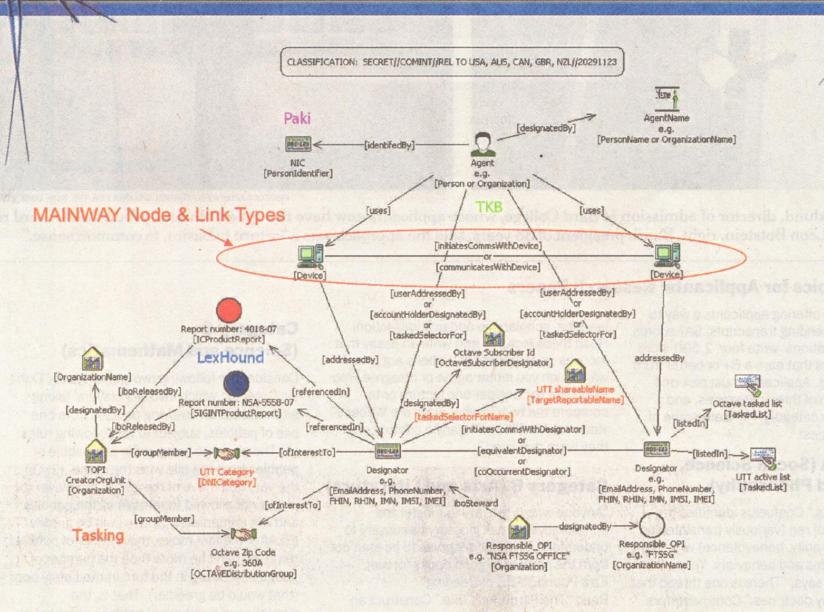
What Will You Receive in Collection (Surveillance and Stored Comms)? It varies by provider. In general:

- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple

- E-mail
- Chat video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity logins, etc.
- Online Social Networking details
- Special Requests

Complete list and details on PRISM web page:

(S//SI//REL USA, FVEY) SYANPSE Data Model





THE NEW WAY

BOUNDLESSINFORMANT

(U//FOUO) Use Big Data technology to query SIGINT collection in the cloud to produce near real-time business intelligence describing the agency's available SIGINT infrastructure and coverage.

(U//FOUO) Key Questions

- How many records are collected for an organizational unit (e.g. FORNSAT) or country?
- 2. Are there any visible trends?
- What assets collect against a specific country? What type of collection?
- What is the field of view for a specific site? What type of collection?

(U//FOUO) Potential Users

- Strategic decision makers (leadership team)
- 2. Tactical users (mission and collection managers)



BUILDING AND PUSHING AN INDUSTRY

- Bridge between US Government / US
 Intelligence Agencies and US
 Corporations is blurring
- Brain and Money flow into Ventures
- More that US\$ 1 Bill. of Early Stage Funding into IT-Security in Silicon Valley in 2012

In-Q-Tel





In-Q-Tel







WE LIKE TO PROVIDE DATA

- 84% of all Search Traffic is UScontrolled
- The Worlds most widely used Social Platforms are US-based
- That's cool!" beats "Do they care?"

Android



Full access to WLAN passwords



Full access to stored files



Full access to iMessages

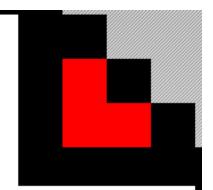
TECHS TOP INNOVATORS ARE US-BASED

#	2013
1	facebook
2	workday
3	Linked in
4	ENDE
5	GROUPON
6	y
7	servicenow*
8	paloatto paloatto
9	360 buy com
10	₩ zynga

9 out of 10 (2013 listing)

Patriot Act





My Fellow Users,

I have been forced to make a difficult decision: to become complicit in crimes against the American people or walk away from nearly ten years of hard work by shutting down Lavabit. After significant soul searching, I have decided to suspend operations. I wish that I could legally share with you the events that led to my decision. I cannot. I feel you deserve to know what's going on—the first amendment is supposed to guarantee me the freedom to speak out in situations like this. Unfortunately, Congress has passed laws that say otherwise. As things currently stand, I cannot share my experiences over the last six weeks, even though I have twice made the appropriate requests.

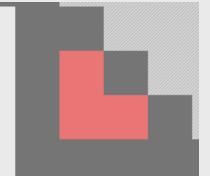
What's going to happen now? We've already started preparing the paperwork needed to continue to fight for the Constitution in the Fourth Circuit Court of Appeals. A favorable decision would allow me resurrect Lavabit as an American company.

This experience has taught me one very important lesson: without congressional action or a strong judicial precedent, I would _strongly_ recommend against anyone trusting their private data to a company with physical ties to the United States.

Sincerely, Ladar Levison Owner and Operator, Lavabit LLC

Defending the constitution is expensive! Help us by donating to the Lavabit Legal Defense Fund here.





My Fellow Users

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Storing and processing huge amount of data





MOTIVATION FOR DATA GATHERING

- Prevent Money Laundring
- Prevent Terrorism
- Old-fashioned Intelligence Tasks
- Business

MOTIVATION FOR DATA GATHERING



Prevent Money Laundring



Prevent Terrorism



Old-fashioned Intelligence Tasks



It's the Economy, Stupid!

BUSINESS DRIVERS

- Collect competitive information
- Generate intellectual property
- Push GDP
- Brain drain to US



504 Mill. 316 Mill.







12,8 Trill. € 11,8 Trill. €



Steps to take...

EUROPEAN UNION / GOVERNMENTS

- Invest in People, Education and Innovation
- Encourage Start-Ups in promising Industries
- Provide extensive Seed and Venture Capital
- Provide flexible Pan-European Business Context

BUYERS

- Buy European Technology and Services
- Take Steps to Protect Corporate Assets
- Reconsider usage of Cloud Services
- Enforce and use Open Encryption Standards
- Enhance Awareness for Topic

IT-COMPANIES

- Don't follow, take the Lead!
- Team up
- Consider Europe as one Market
- Be Proud and Pushy!

So: Whom to Trust now?

Thank you!

