



WHAT IF PETRAEUS WAS A HACKER?

Email privacy for the rest of us

https://en.wikipedia.org/wiki/David_Petraeus



Phil Cryer / @fak3r

v1.02

Las Vegas, NV
August 1, 2013





Phil Cryer



Phil Cryer

better known online as...

@FAK3R

A portrait of a middle-aged man with a full, grey beard and short brown hair. He is wearing dark-rimmed glasses and a light blue t-shirt. He is standing outdoors with a majestic mountain range featuring snow-capped peaks in the background under a clear blue sky.

Phil Cryer

OPEN SOURCE TECHNOLOGIST

better known online as...

@FAK3R

A portrait of a man with short brown hair, wearing glasses and a light beard, standing outdoors. He is wearing a blue t-shirt. In the background, there are majestic mountains with patches of snow and green forests at the base.

Phil Cryer

**OPEN SOURCE TECHNOLOGIST
INFOSEC RESEARCHER+SPEAKER**

better known online as...

@FAK3R

A portrait of Phil Cryer, a middle-aged man with short brown hair and a well-groomed grey beard. He is wearing dark-rimmed glasses and a light blue t-shirt. He is standing outdoors with a majestic mountain range featuring several peaks with snow caps in the background. The sky is clear and blue.

Phil Cryer

**OPEN SOURCE TECHNOLOGIST
INFOSEC RESEARCHER+SPEAKER
PRIVACY ADVOCATE**

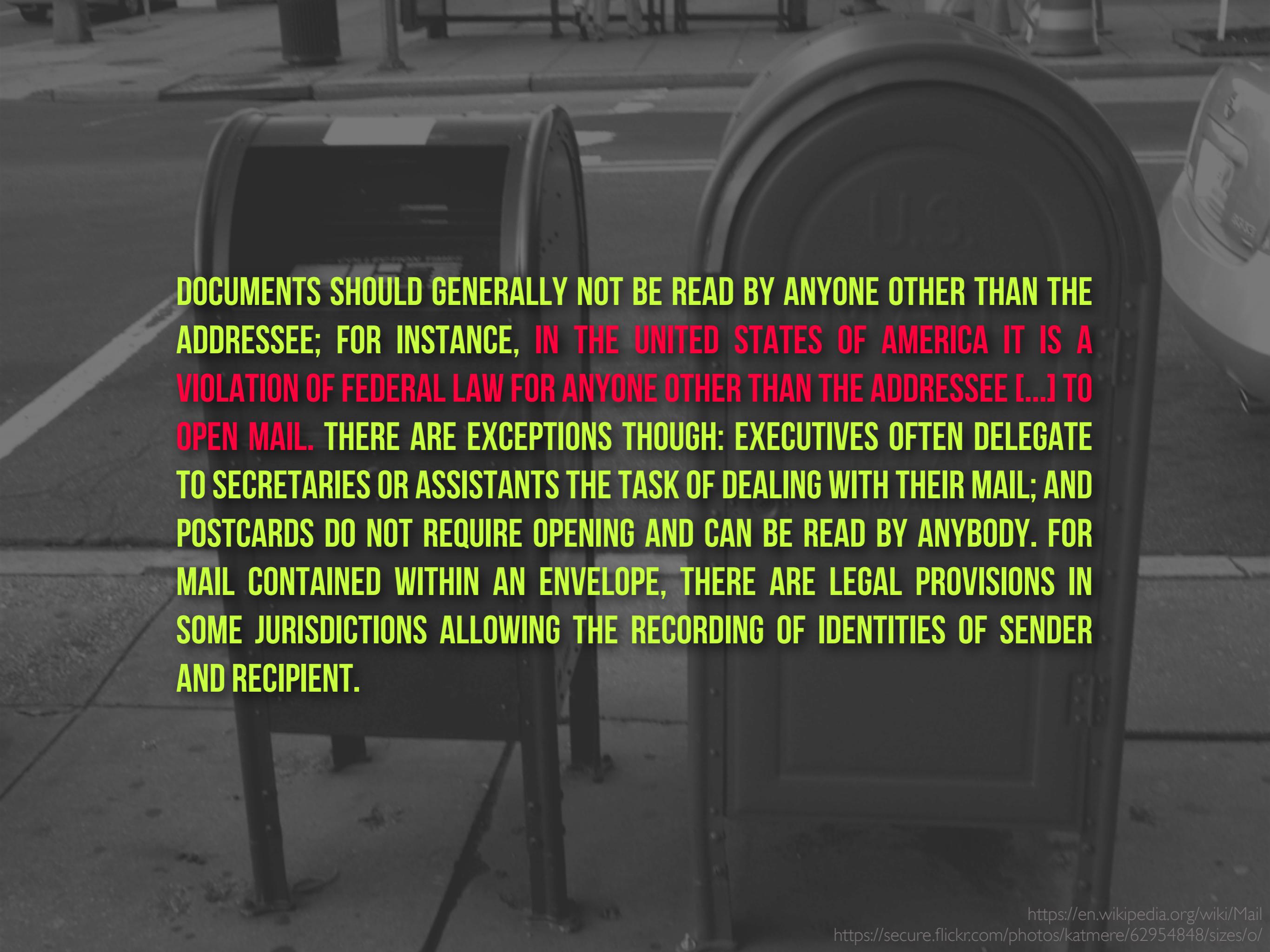
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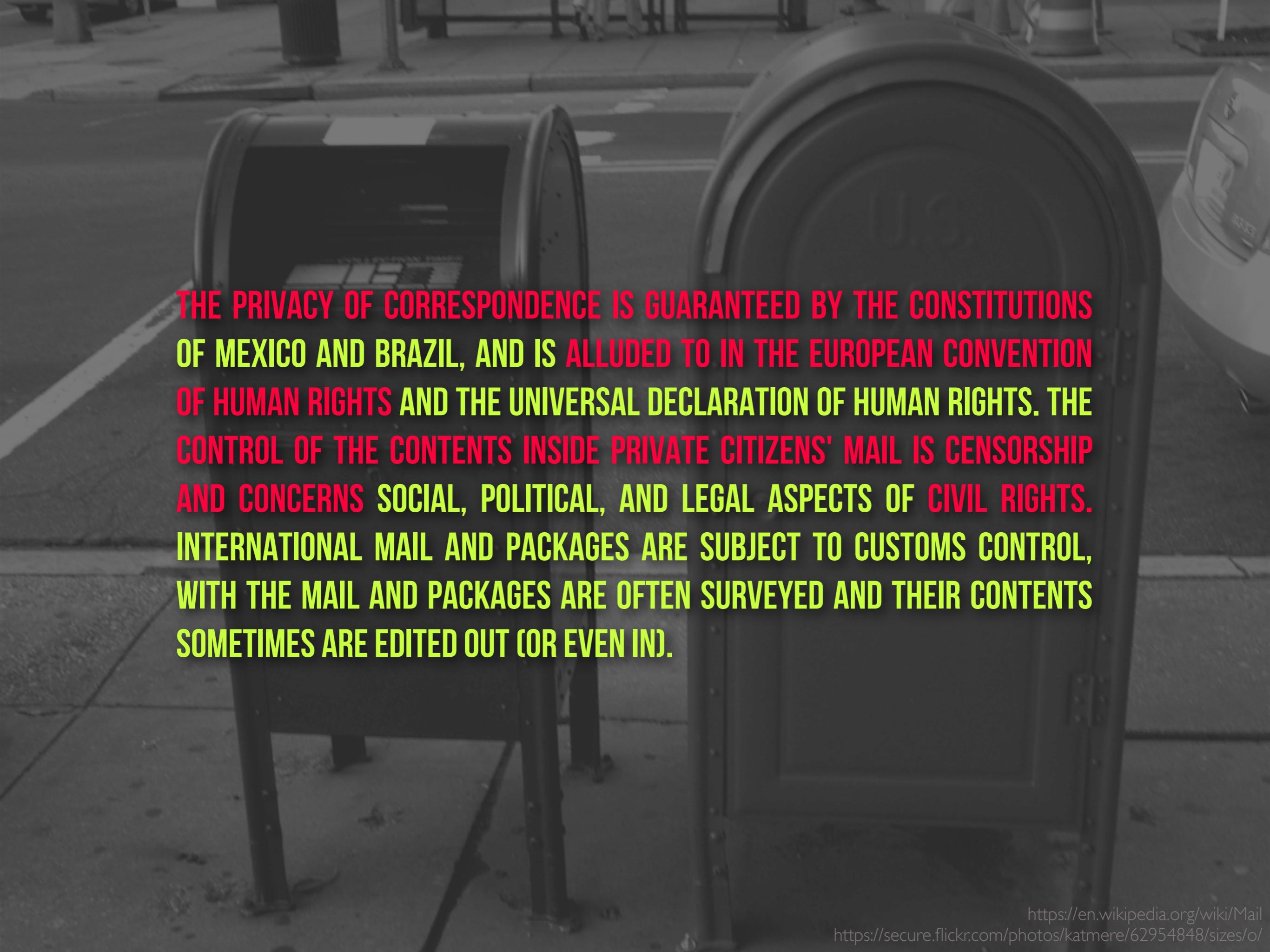


LET'S START WITH MAIL

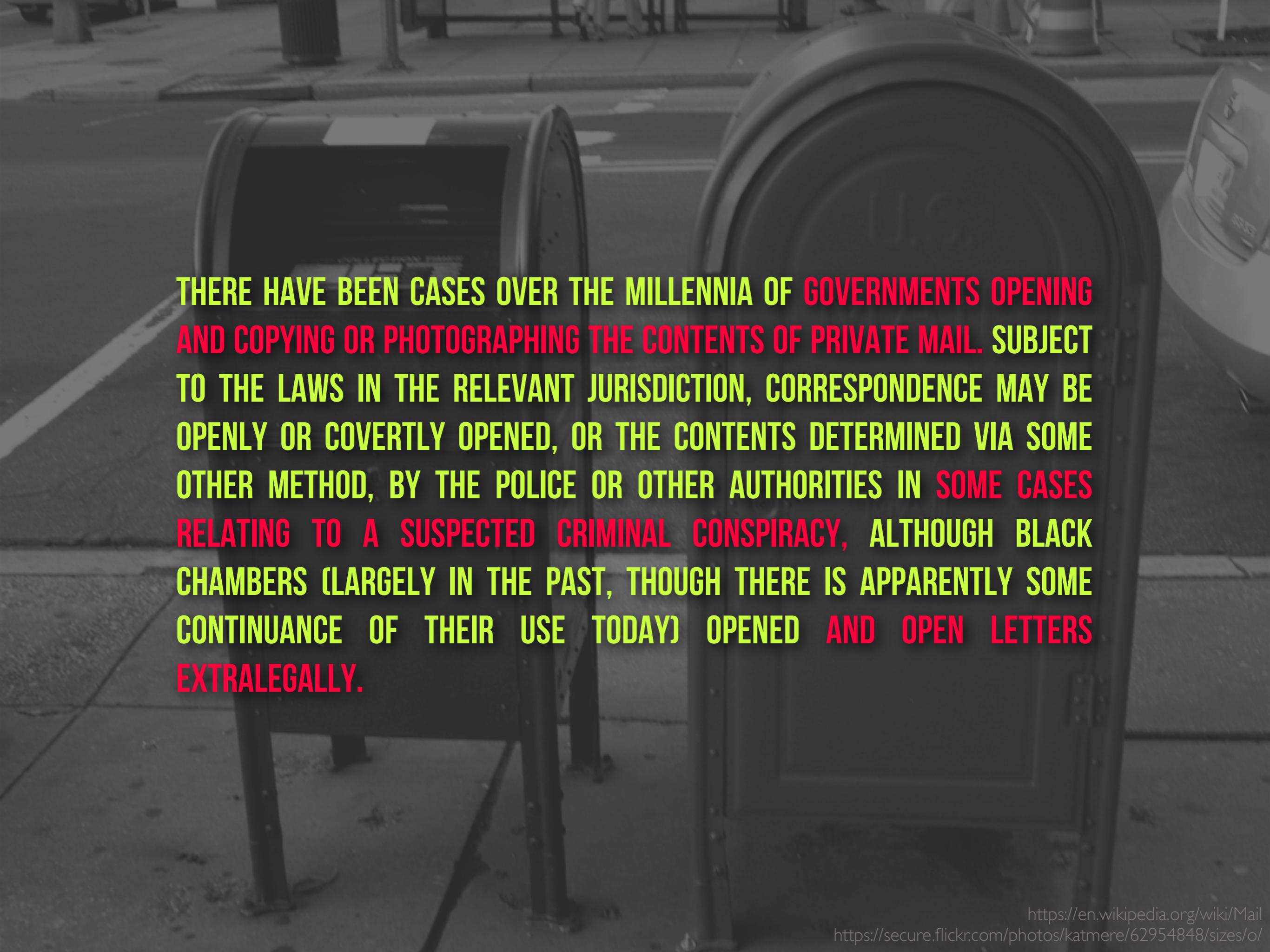




DOCUMENTS SHOULD GENERALLY NOT BE READ BY ANYONE OTHER THAN THE ADDRESSEE; FOR INSTANCE, IN THE UNITED STATES OF AMERICA IT IS A VIOLATION OF FEDERAL LAW FOR ANYONE OTHER THAN THE ADDRESSEE [...] TO OPEN MAIL. THERE ARE EXCEPTIONS THOUGH: EXECUTIVES OFTEN DELEGATE TO SECRETARIES OR ASSISTANTS THE TASK OF DEALING WITH THEIR MAIL; AND POSTCARDS DO NOT REQUIRE OPENING AND CAN BE READ BY ANYBODY. FOR MAIL CONTAINED WITHIN AN ENVELOPE, THERE ARE LEGAL PROVISIONS IN SOME JURISDICTIONS ALLOWING THE RECORDING OF IDENTITIES OF SENDER AND RECIPIENT.



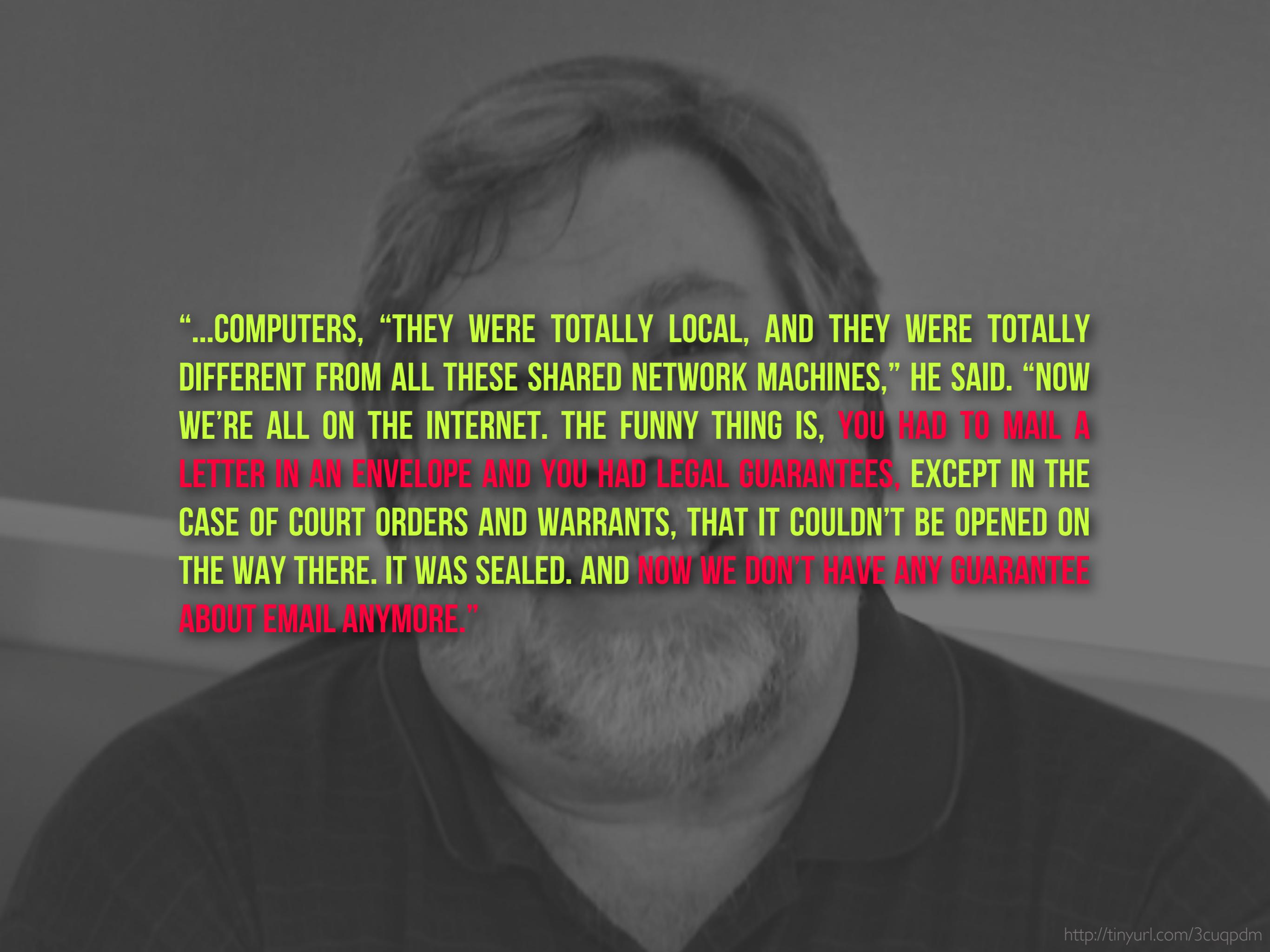
THE PRIVACY OF CORRESPONDENCE IS GUARANTEED BY THE CONSTITUTIONS OF MEXICO AND BRAZIL, AND IS ALLUDED TO IN THE EUROPEAN CONVENTION OF HUMAN RIGHTS AND THE UNIVERSAL DECLARATION OF HUMAN RIGHTS. THE CONTROL OF THE CONTENTS INSIDE PRIVATE CITIZENS' MAIL IS CENSORSHIP AND CONCERNSS SOCIAL, POLITICAL, AND LEGAL ASPECTS OF CIVIL RIGHTS. INTERNATIONAL MAIL AND PACKAGES ARE SUBJECT TO CUSTOMS CONTROL, WITH THE MAIL AND PACKAGES ARE OFTEN SURVEYED AND THEIR CONTENTS SOMETIMES ARE EDITED OUT (OR EVEN IN).



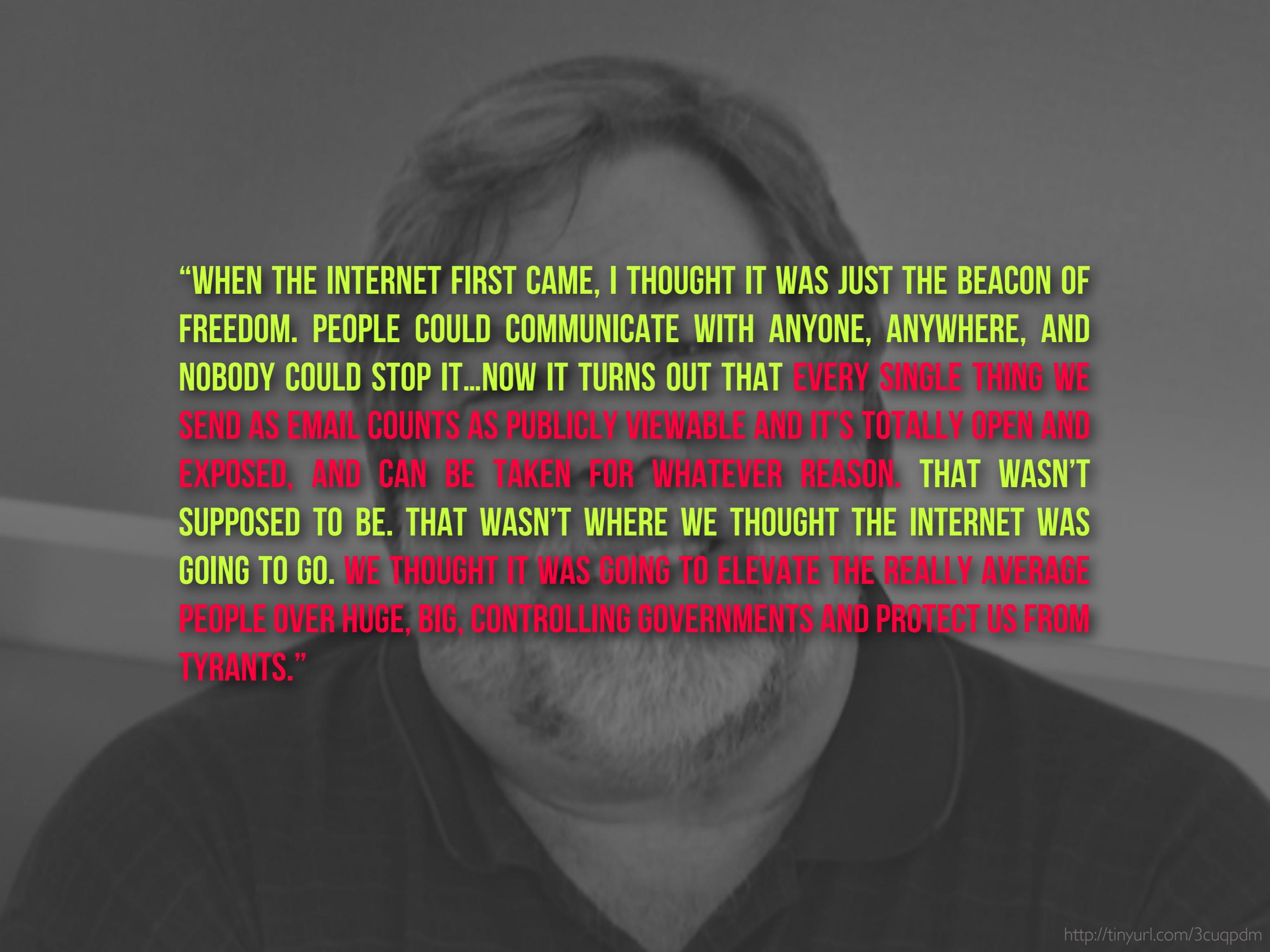
THERE HAVE BEEN CASES OVER THE MILLENNIA OF GOVERNMENTS OPENING AND COPYING OR PHOTOGRAPHING THE CONTENTS OF PRIVATE MAIL. SUBJECT TO THE LAWS IN THE RELEVANT JURISDICTION, CORRESPONDENCE MAY BE OPENLY OR COVERTLY OPENED, OR THE CONTENTS DETERMINED VIA SOME OTHER METHOD, BY THE POLICE OR OTHER AUTHORITIES IN SOME CASES RELATING TO A SUSPECTED CRIMINAL CONSPIRACY, ALTHOUGH BLACK CHAMBERS (LARGELY IN THE PAST, THOUGH THERE IS APPARENTLY SOME CONTINUANCE OF THEIR USE TODAY) OPENED AND OPEN LETTERS EXTRALEGALLY.

WHAT ABOUT EMAIL





“...COMPUTERS, “THEY WERE TOTALLY LOCAL, AND THEY WERE TOTALLY DIFFERENT FROM ALL THESE SHARED NETWORK MACHINES,” HE SAID. “NOW WE’RE ALL ON THE INTERNET. THE FUNNY THING IS, YOU HAD TO MAIL A LETTER IN AN ENVELOPE AND YOU HAD LEGAL GUARANTEES, EXCEPT IN THE CASE OF COURT ORDERS AND WARRANTS, THAT IT COULDN’T BE OPENED ON THE WAY THERE. IT WAS SEALED. AND NOW WE DON’T HAVE ANY GUARANTEE ABOUT EMAIL ANYMORE.”



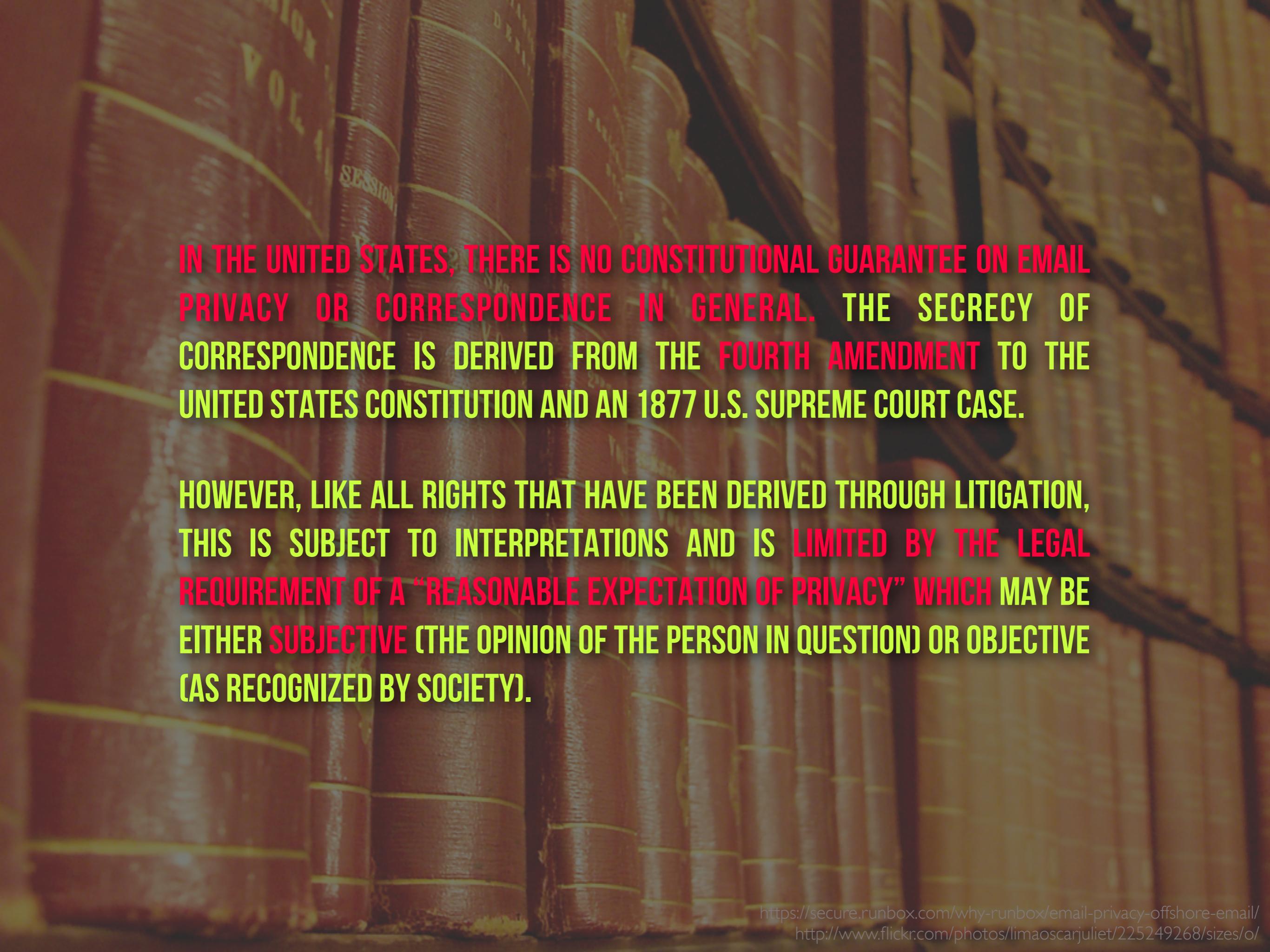
“WHEN THE INTERNET FIRST CAME, I THOUGHT IT WAS JUST THE BEACON OF FREEDOM. PEOPLE COULD COMMUNICATE WITH ANYONE, ANYWHERE, AND NOBODY COULD STOP IT...NOW IT TURNS OUT THAT EVERY SINGLE THING WE SEND AS EMAIL COUNTS AS PUBLICLY VIEWABLE AND IT'S TOTALLY OPEN AND EXPOSED, AND CAN BE TAKEN FOR WHATEVER REASON. THAT WASN'T SUPPOSED TO BE. THAT WASN'T WHERE WE THOUGHT THE INTERNET WAS GOING TO GO. WE THOUGHT IT WAS GOING TO ELEVATE THE REALLY AVERAGE PEOPLE OVER HUGE, BIG, CONTROLLING GOVERNMENTS AND PROTECT US FROM TYRANTS.”

A black and white photograph of Steve Jobs. He has long, wavy hair and is wearing a dark turtleneck sweater over a collared shirt. His hands are clasped in front of him. The background is a plain, light-colored wall.

HE SUGGESTED THE TWO TOP TECHNOLOGY COMPANIES, MICROSOFT AND APPLE, MISSED AN OPPORTUNITY BY NOT INCORPORATING PGP (FOR “PRETTY GOOD PRIVACY) ENCRYPTION SOFTWARE INTO THEIR PRODUCTS. “IF TWO COMPANIES, MICROSOFT AND APPLE, HAD BUILT IN PGP ENCRYPTION,” WOZNIAK SAID, “EVERY EMAIL WOULD HAVE BEEN ENCRYPTED AND UNCRACKABLE.”

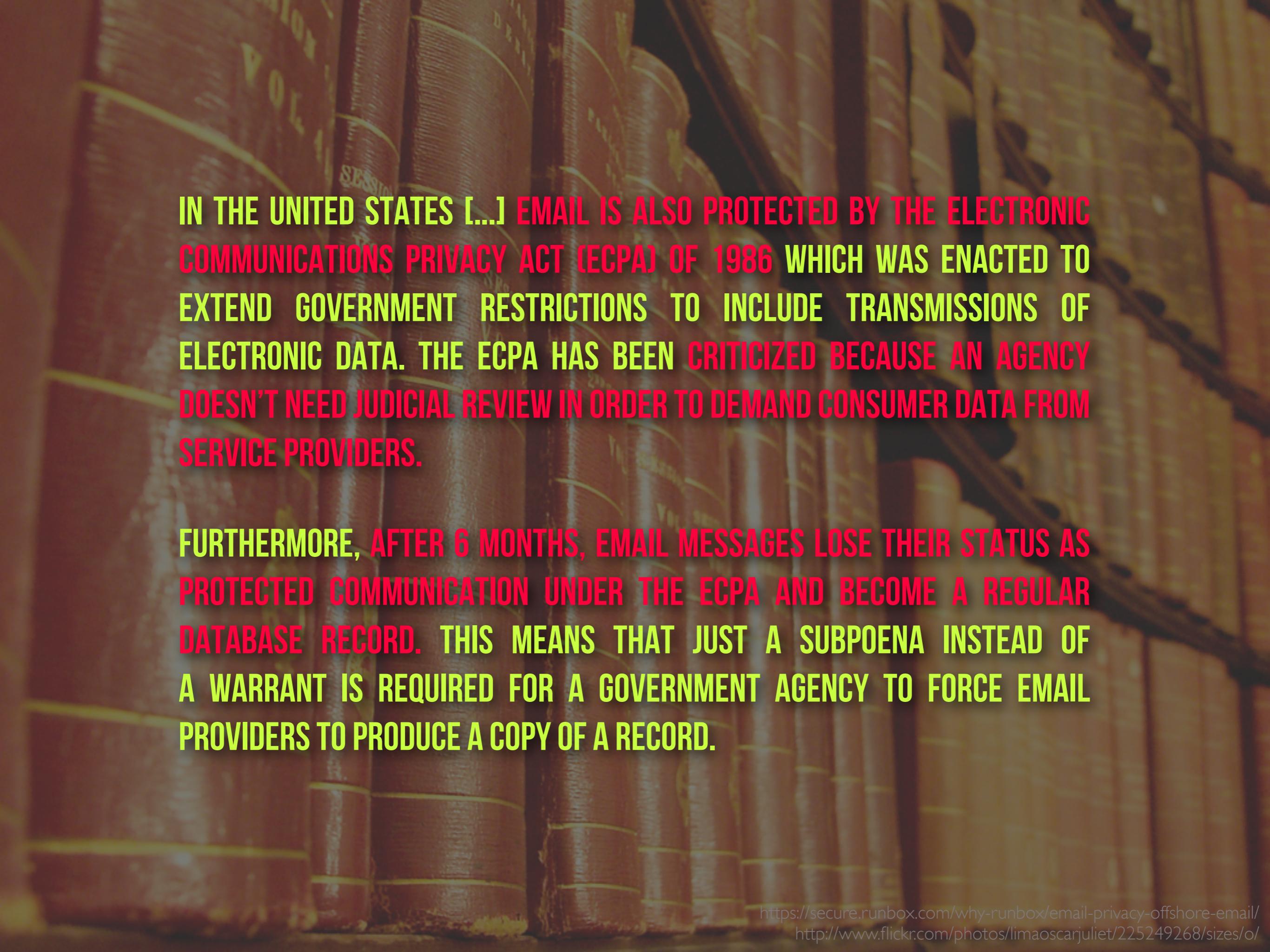


WHAT ARE THE LAWS



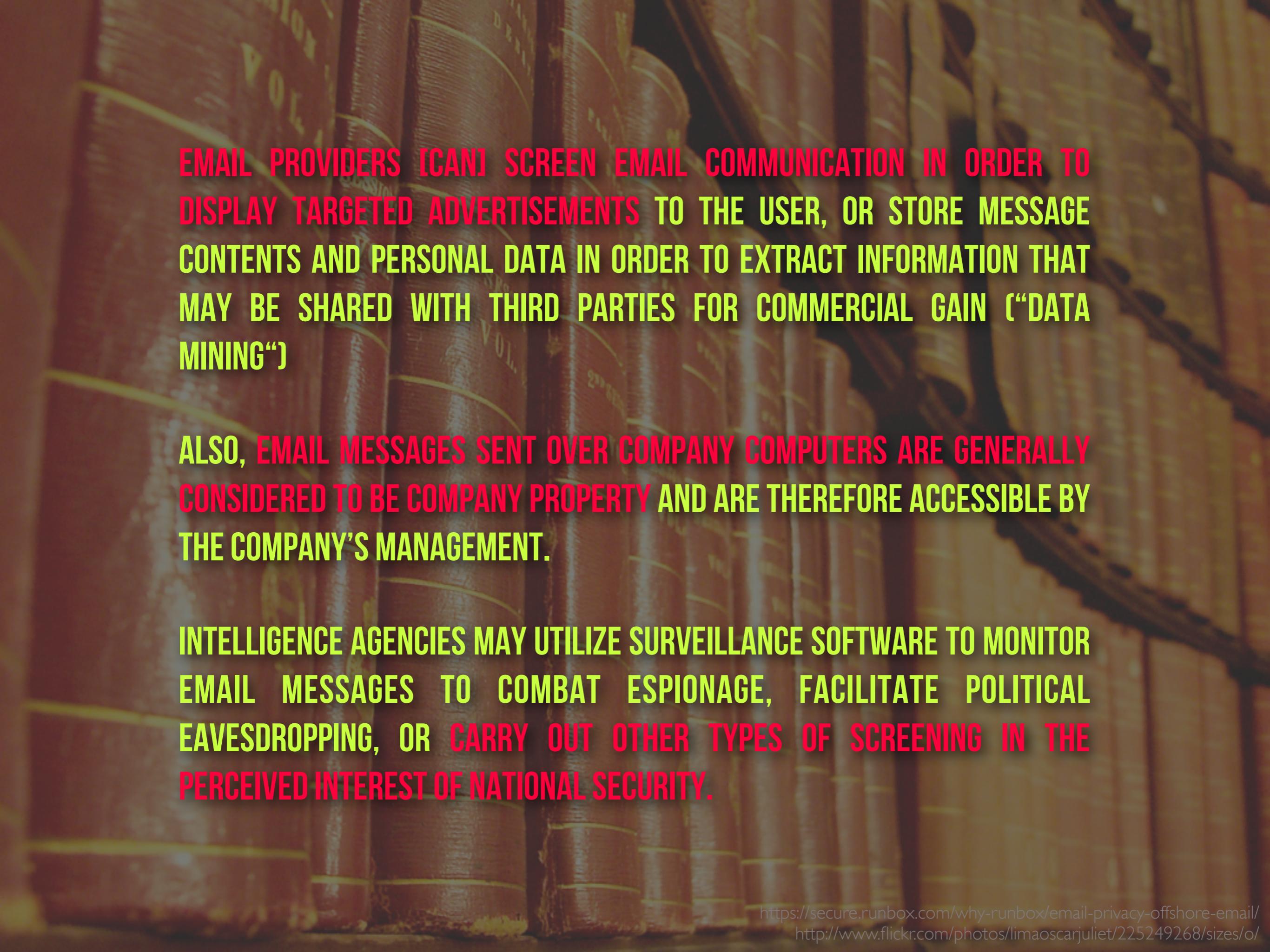
IN THE UNITED STATES, THERE IS NO CONSTITUTIONAL GUARANTEE ON EMAIL PRIVACY OR CORRESPONDENCE IN GENERAL. THE SECRECY OF CORRESPONDENCE IS DERIVED FROM THE FOURTH AMENDMENT TO THE UNITED STATES CONSTITUTION AND AN 1877 U.S. SUPREME COURT CASE.

HOWEVER, LIKE ALL RIGHTS THAT HAVE BEEN DERIVED THROUGH LITIGATION, THIS IS SUBJECT TO INTERPRETATIONS AND IS LIMITED BY THE LEGAL REQUIREMENT OF A “REASONABLE EXPECTATION OF PRIVACY” WHICH MAY BE EITHER SUBJECTIVE (THE OPINION OF THE PERSON IN QUESTION) OR OBJECTIVE (AS RECOGNIZED BY SOCIETY).



IN THE UNITED STATES [...] EMAIL IS ALSO PROTECTED BY THE ELECTRONIC COMMUNICATIONS PRIVACY ACT (ECPA) OF 1986 WHICH WAS ENACTED TO EXTEND GOVERNMENT RESTRICTIONS TO INCLUDE TRANSMISSIONS OF ELECTRONIC DATA. THE ECPA HAS BEEN CRITICIZED BECAUSE AN AGENCY DOESN'T NEED JUDICIAL REVIEW IN ORDER TO DEMAND CONSUMER DATA FROM SERVICE PROVIDERS.

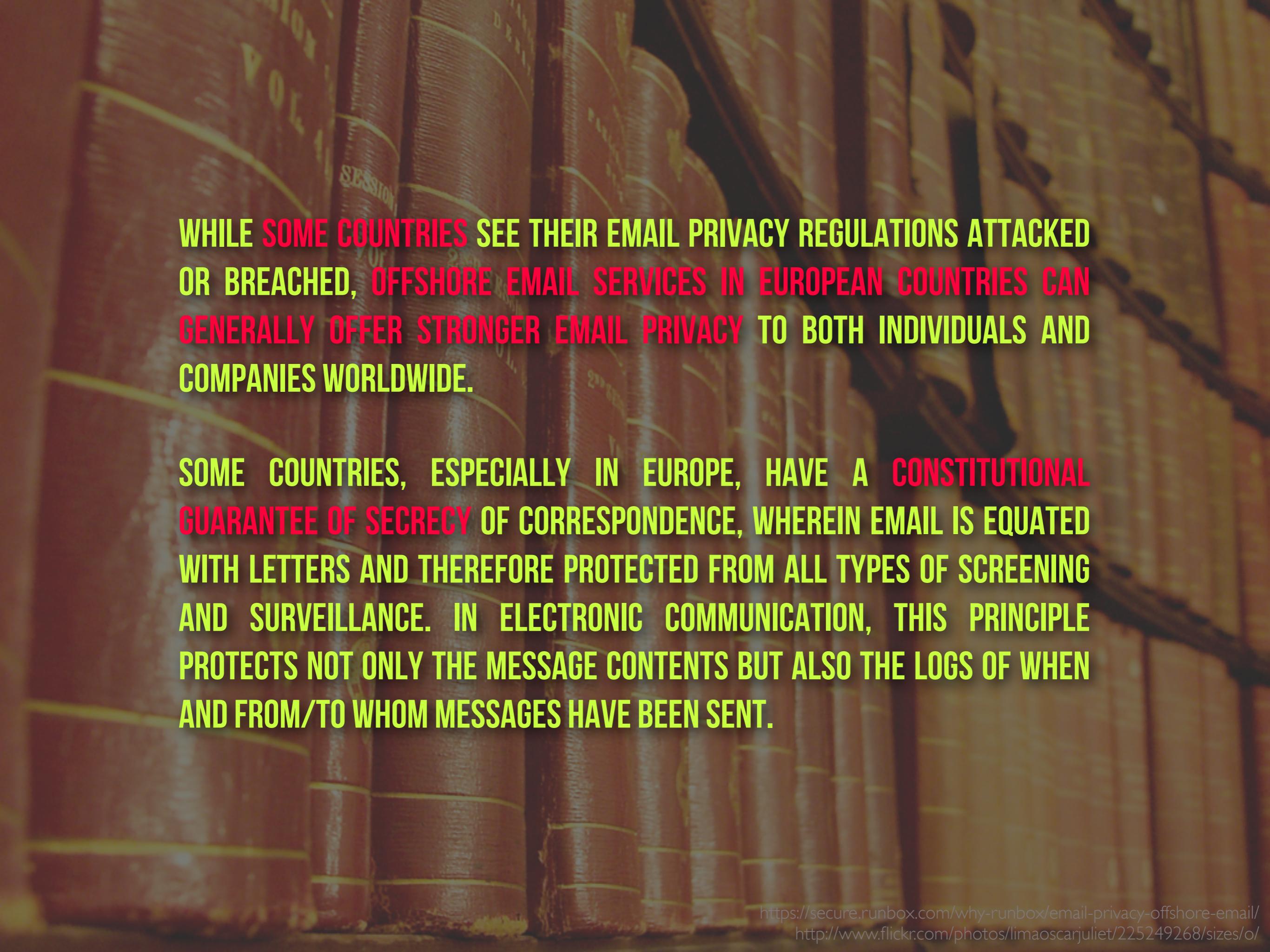
FURTHERMORE, AFTER 6 MONTHS, EMAIL MESSAGES LOSE THEIR STATUS AS PROTECTED COMMUNICATION UNDER THE ECPA AND BECOME A REGULAR DATABASE RECORD. THIS MEANS THAT JUST A SUBPOENA INSTEAD OF A WARRANT IS REQUIRED FOR A GOVERNMENT AGENCY TO FORCE EMAIL PROVIDERS TO PRODUCE A COPY OF A RECORD.



EMAIL PROVIDERS [CAN] SCREEN EMAIL COMMUNICATION IN ORDER TO DISPLAY TARGETED ADVERTISEMENTS TO THE USER, OR STORE MESSAGE CONTENTS AND PERSONAL DATA IN ORDER TO EXTRACT INFORMATION THAT MAY BE SHARED WITH THIRD PARTIES FOR COMMERCIAL GAIN (“DATA MINING”)

ALSO, EMAIL MESSAGES SENT OVER COMPANY COMPUTERS ARE GENERALLY CONSIDERED TO BE COMPANY PROPERTY AND ARE THEREFORE ACCESSIBLE BY THE COMPANY’S MANAGEMENT.

INTELLIGENCE AGENCIES MAY UTILIZE SURVEILLANCE SOFTWARE TO MONITOR EMAIL MESSAGES TO COMBAT ESPIONAGE, FACILITATE POLITICAL EAVESDROPPING, OR CARRY OUT OTHER TYPES OF SCREENING IN THE PERCEIVED INTEREST OF NATIONAL SECURITY.



WHILE SOME COUNTRIES SEE THEIR EMAIL PRIVACY REGULATIONS ATTACKED OR BREACHED, OFFSHORE EMAIL SERVICES IN EUROPEAN COUNTRIES CAN GENERALLY OFFER STRONGER EMAIL PRIVACY TO BOTH INDIVIDUALS AND COMPANIES WORLDWIDE.

SOME COUNTRIES, ESPECIALLY IN EUROPE, HAVE A CONSTITUTIONAL GUARANTEE OF SECRECY OF CORRESPONDENCE, WHEREIN EMAIL IS EQUATED WITH LETTERS AND THEREFORE PROTECTED FROM ALL TYPES OF SCREENING AND SURVEILLANCE. IN ELECTRONIC COMMUNICATION, THIS PRINCIPLE PROTECTS NOT ONLY THE MESSAGE CONTENTS BUT ALSO THE LOGS OF WHEN AND FROM/TO WHOM MESSAGES HAVE BEEN SENT.

THE PETRAEUS INCIDENT

Wednesday, November 14, 2012 \$1

Socialite's emails snare 2nd general

Key players and their connections



Gen. David Petraeus was running the war in Afghanistan before becoming director of the CIA in September 2011. Associated Press



Jill Kelley leaves her home Tuesday. Hear audio of police calls about trespassers at the home at tampabay.com. Associated Press

5 aides put on leave in inquiry

But no charges will be filed in the drowning of the Riverview special needs student.

BY JESSICA VANDER VELDE
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Times Staff Writers

RIVerview — Two weeks before an 11-year-old girl with Down syndrome walked away from her physical education class and drowned in a pond at her school, her PE teacher issued a warning.

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Six aides were assigned to care for 24 special-needs students, but the adults would usually just sit on the bleachers, he said.

When students walked away or hid, it was Gawrych who followed, the coach said.

"I can't keep having to run



Jennifer Caballero, 10, drowned near her school Oct. 22.

PORT OFFICIALS CERTAIN ON THE CEO THEY WANT



A special kid has his special day

Gen. Petraeus' 8-year-old son has Down syndrome, gets cool wheelchair and a once-in-a-lifetime vacation. Lewis, 1C

This ought to be David Price's time. Right from way you like. The Newcomer deserves a Cy Young Award, says Gary Shelton. Sports, 1C

Borders don't confine Syria war

Survey finds the country's 20-month civil war is increasingly drawing in nations around it. Middle, 1A

Summit tackles distracted driving

Hundreds of law enforcement officials from about 30 countries have agreed to strengthen laws against drivers who

aren't paying attention. Local, 1A

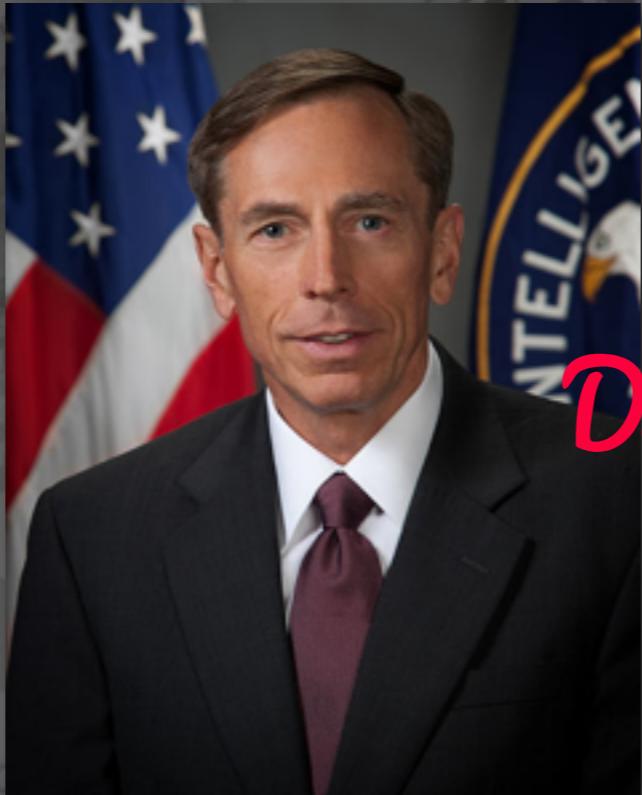
David Petraeus

Retired four-star Army general, 61, who became CIA director in September 2011 after an accomplished military career that included stints as commander of U.S. and international troops in Iraq and Afghanistan. He resigned from his post at the CIA last Friday after admitting to having "extremely poor judgment" by inappropriate infidelity after "Married to Holly for 36 years, with two grown children."

Jill Kelley

Midwife turned mother of three, 36, who became a national figure after her son, Holly, was diagnosed with Down syndrome. She has spoken publicly about her son's condition and the challenges of raising him.

bay.com



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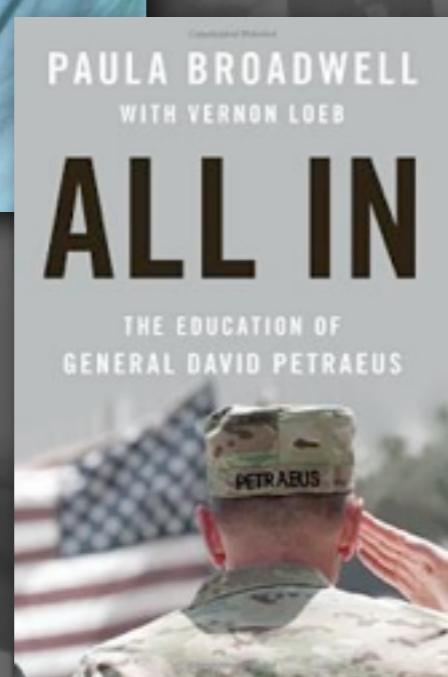
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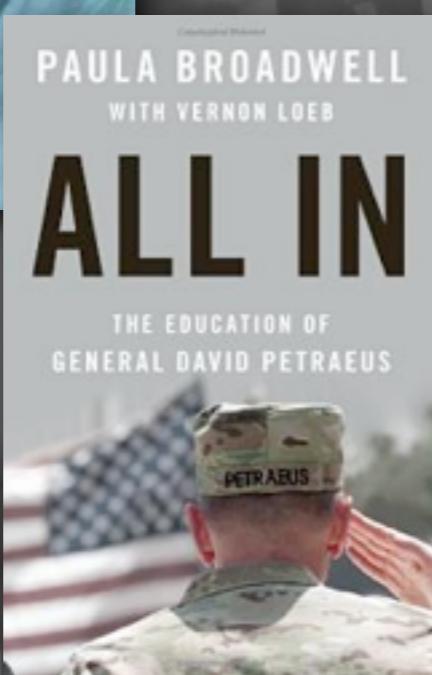
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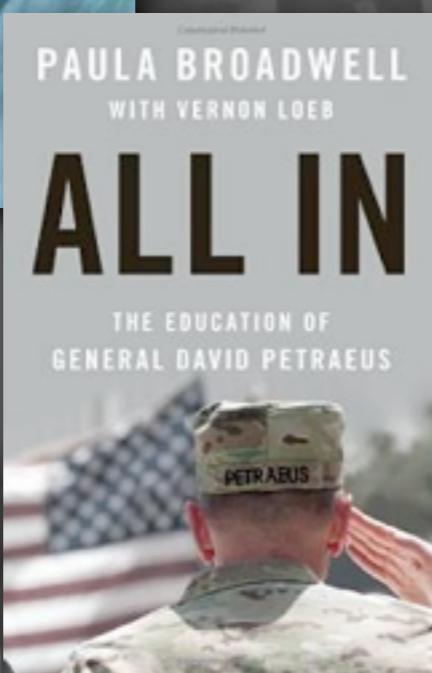
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PAULA BROADWELL
WITH VERNON LOEB
ALL IN

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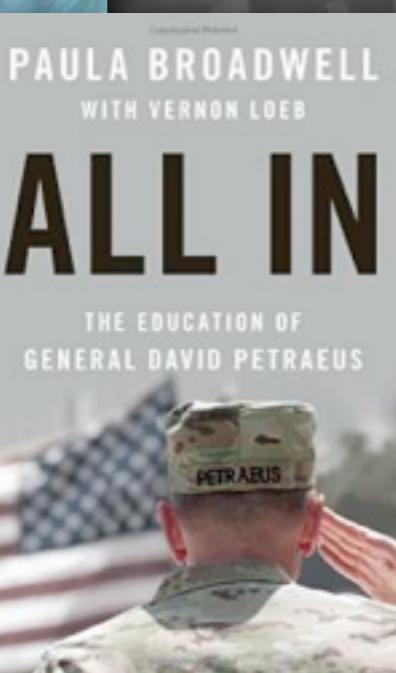
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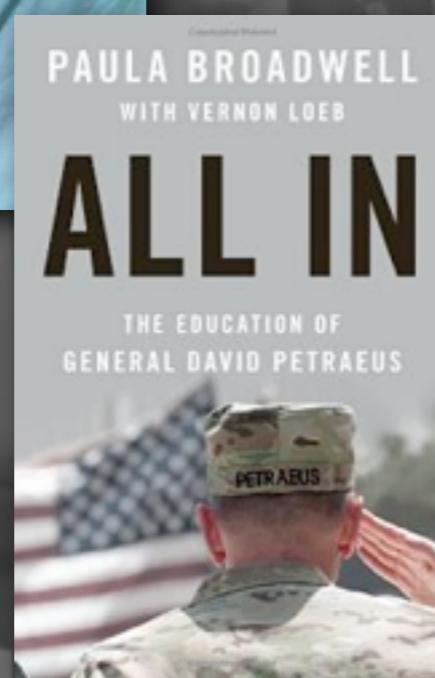
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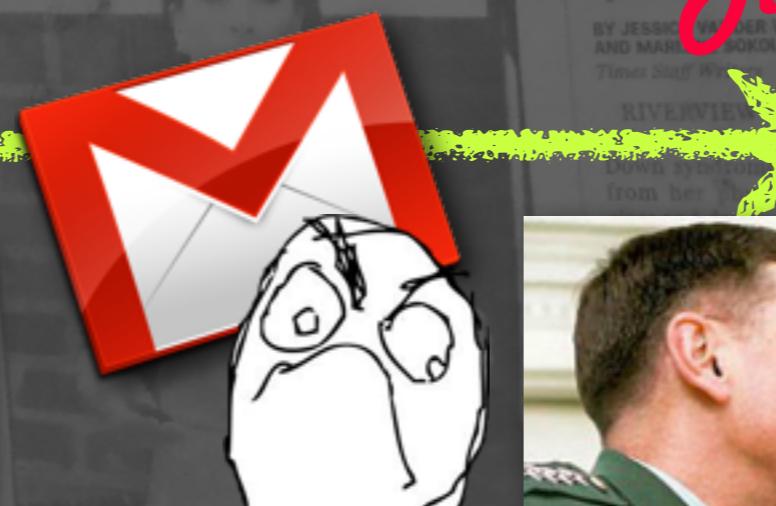
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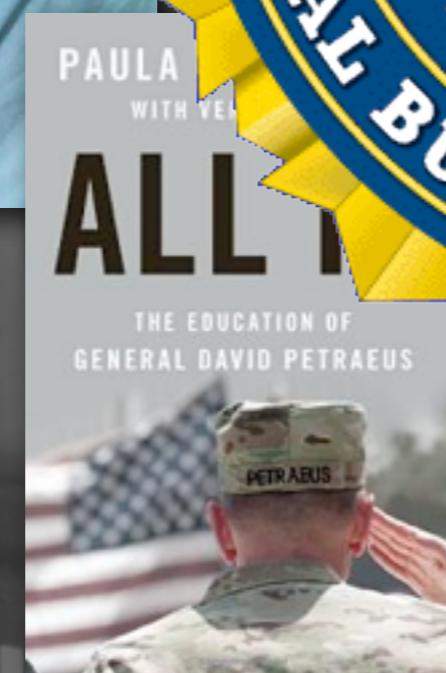
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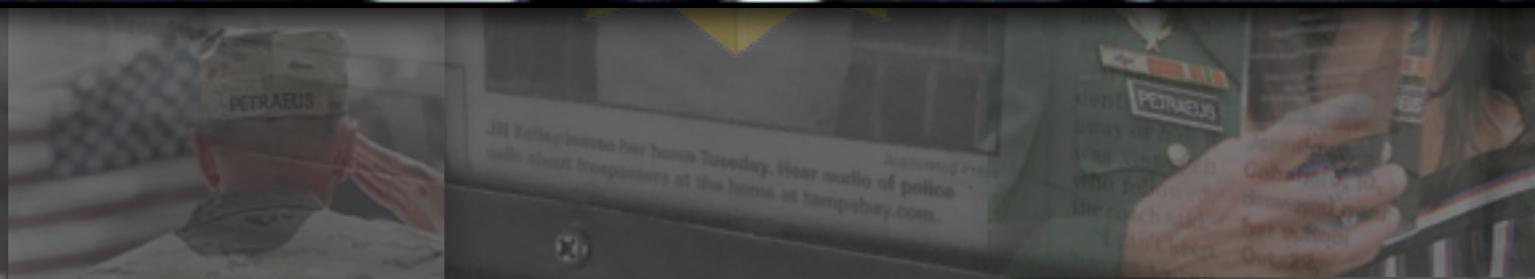
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Tampa Bay Times

Wednesday, November 21, 2012

bay.com

Socialite's 5 emails snare 2nd general

Key players and their connections



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David Petraeus Former General with
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Paula Broadwell
Author of *Call Girl*, biography of Petraeus' affair partner.



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Associated Press

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"I can't keep hearing to my



Jennifer Caballero, 10, drowned near her school Oct. 22.

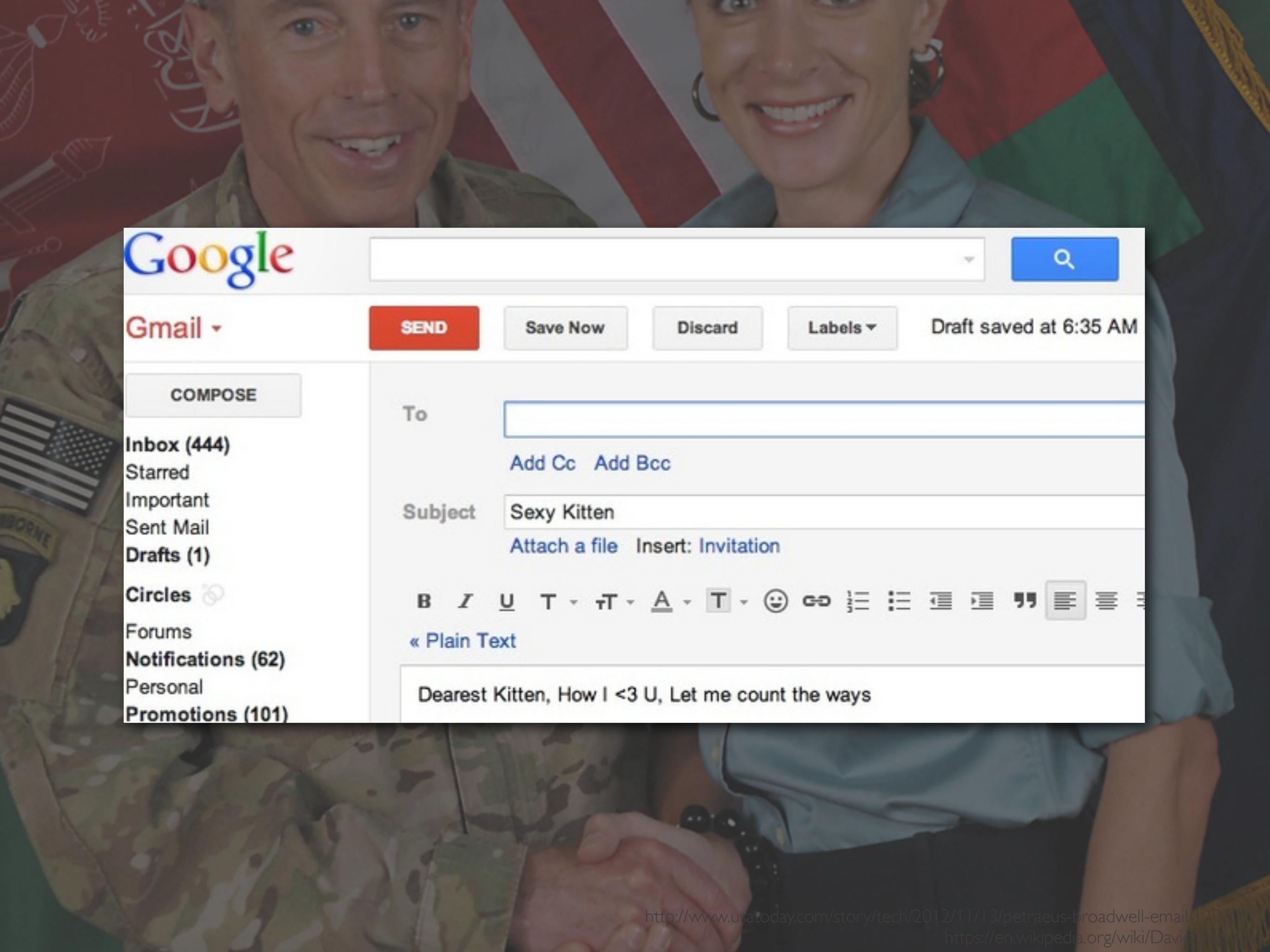
tampabay.com

HOW PETRAEUS WAS CAUGHT



A photograph of a man in a camouflage military uniform and a woman in a light blue shirt shaking hands. They are standing in front of several flags, including the American flag and other international flags. The man is wearing a name tag that partially reads "BORN".

RATHER THAN TRANSMITTING E-MAILS TO THE OTHER'S INBOX, THEY COMPOSED AT LEAST SOME MESSAGES AND LEFT THEM IN A DRAFT FOLDER OR IN AN ELECTRONIC "DROP BOX," THE AP REPORTED. THEN THE OTHER PERSON COULD LOG ONTO THE SAME ACCOUNT AND READ THE DRAFT E-MAILS, AVOIDING THE CREATION OF AN E-MAIL TRAIL THAT MIGHT BE EASIER TO TRACE.



Google

Gmail ▾

SEND

Save Now

Discard

Labels ▾

Draft saved at 6:35 AM

COMPOSE

Inbox (444)

Starred

Important

Sent Mail

Drafts (1)

Circles

Forums

Notifications (62)

Personal

Promotions (101)

To

Add Cc Add Bcc

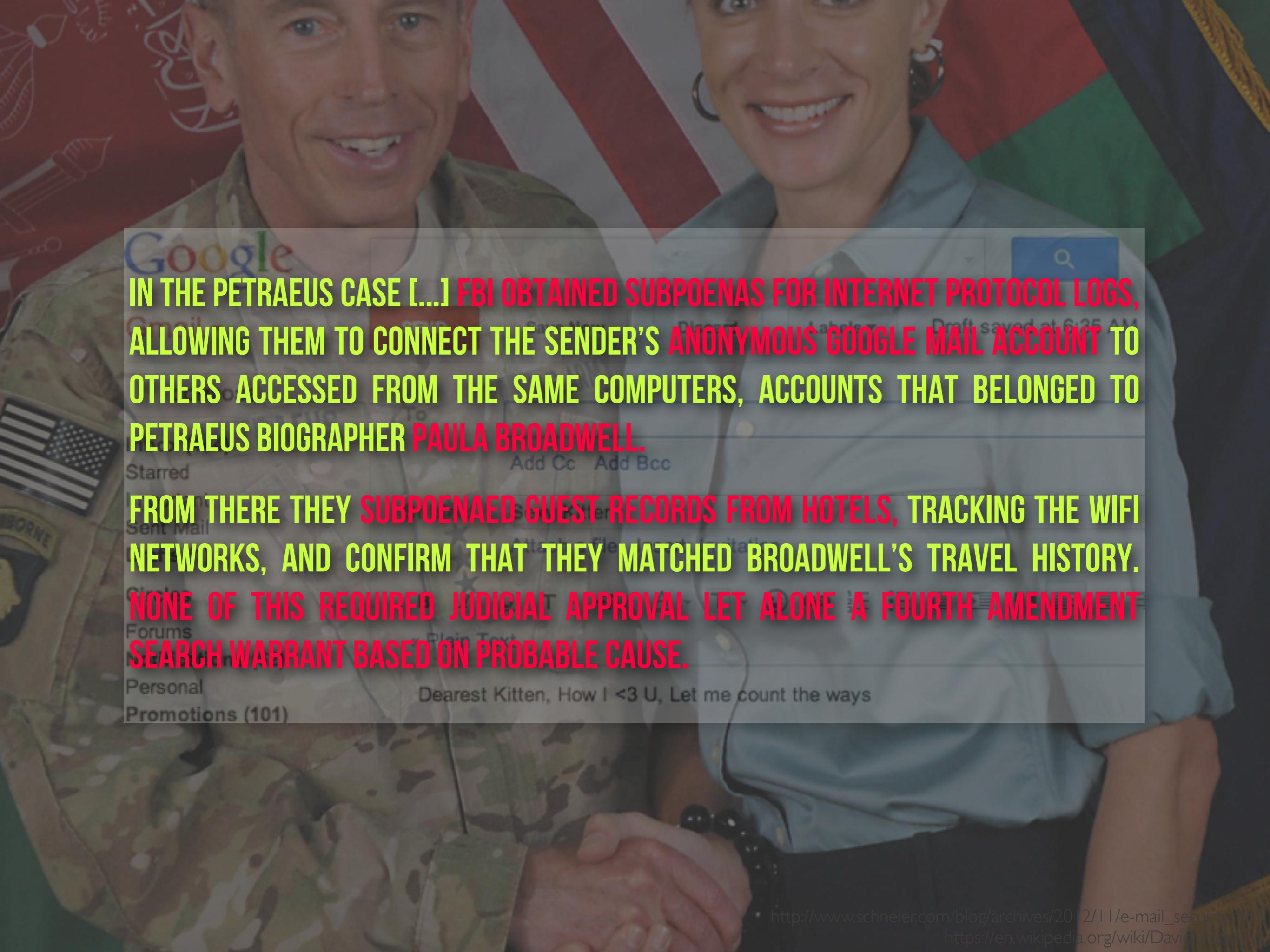
Subject

Sexy Kitten

Attach a file Insert: Invitation

« Plain Text

Dearest Kitten, How I <3 U. Let me count the ways



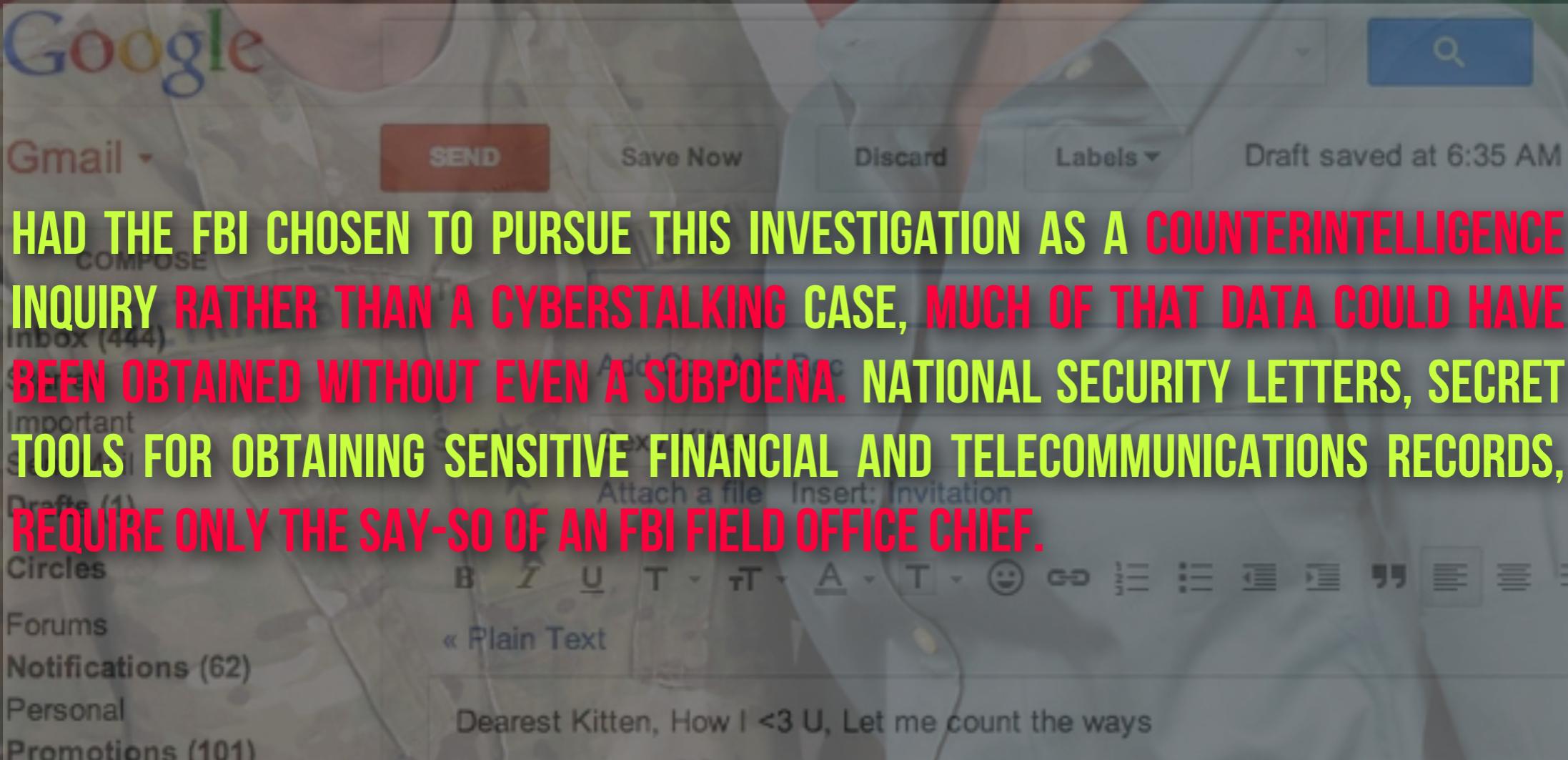
Google

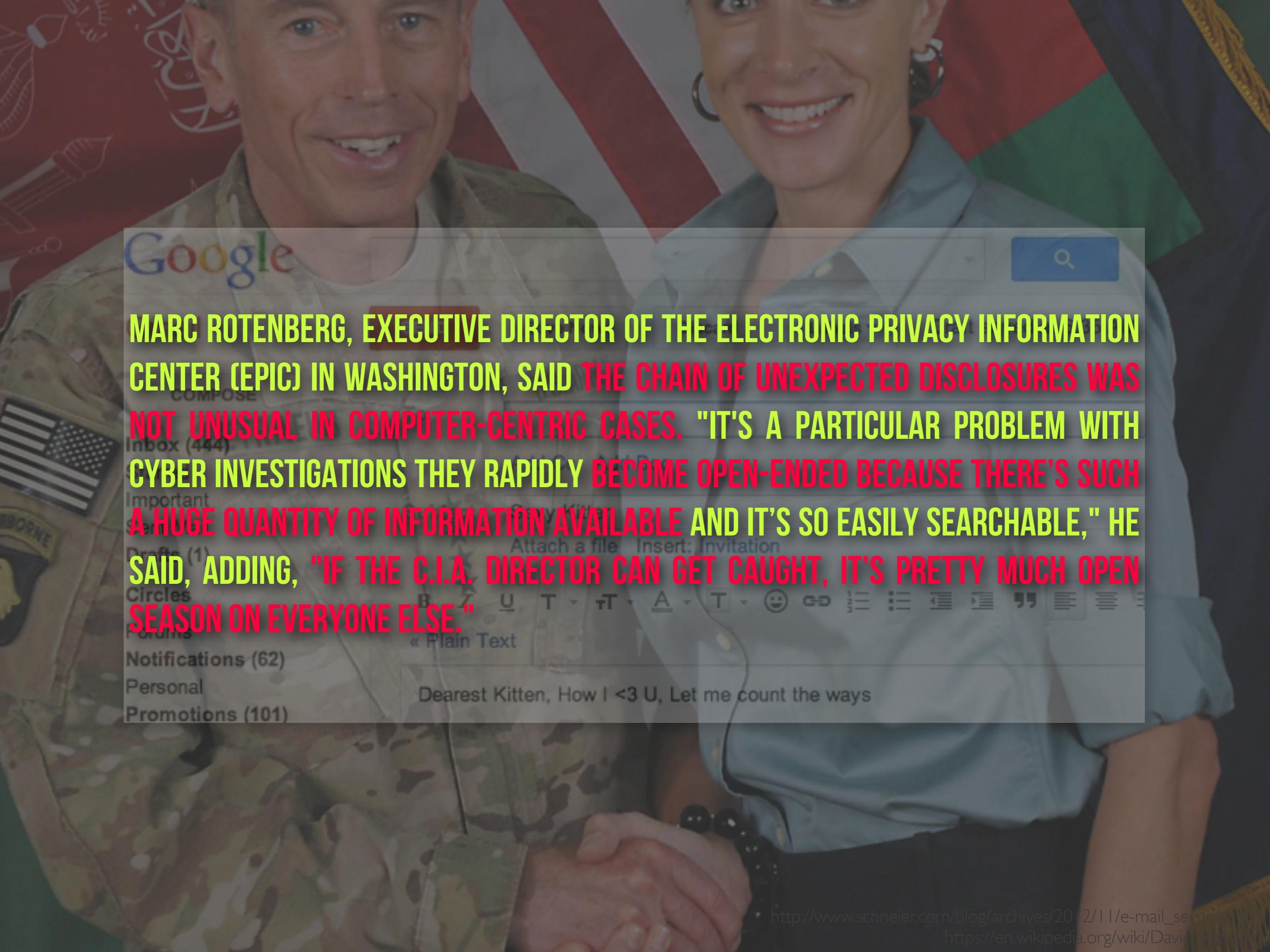
IN THE PETRAEUS CASE [...] FBI OBTAINED SUBPOENAS FOR INTERNET PROTOCOL LOGS, ALLOWING THEM TO CONNECT THE SENDER'S ANONYMOUS GOOGLE MAIL ACCOUNT TO OTHERS ACCESSED FROM THE SAME COMPUTERS, ACCOUNTS THAT BELONGED TO PETRAEUS BIOGRAPHER PAULA BROADWELL.

FROM THERE THEY SUBPOENAED GUEST RECORDS FROM HOTELS, TRACKING THE WIFI NETWORKS, AND CONFIRM THAT THEY MATCHED BROADWELL'S TRAVEL HISTORY. NONE OF THIS REQUIRED JUDICIAL APPROVAL LET ALONE A FOURTH AMENDMENT SEARCH WARRANT BASED ON PROBABLE CAUSE.

Dearest Kitten, How I <3 U, Let me count the ways

THE GUEST LISTS FROM HOTELS, IP LOGIN RECORDS, AS WELL AS THE CREATIVE REQUEST TO EMAIL PROVIDERS FOR "INFORMATION ABOUT OTHER ACCOUNTS THAT HAVE LOGGED IN FROM THIS IP ADDRESS" ARE ALL FORMS OF DATA THAT THE GOVERNMENT CAN OBTAIN WITH A SUBPOENA. THERE IS NO INDEPENDENT REVIEW, NO CHECK AGAINST ABUSE, AND FURTHER, THE TARGET OF THE SUBPOENA WILL OFTEN NEVER LEARN THAT THE GOVERNMENT OBTAINED DATA (UNLESS CHARGES ARE FILED, OR, AS IN THIS PARTICULAR CASE, GOVERNMENT OFFICIALS EAGERLY LEAK DETAILS OF THE INVESTIGATION TO THE PRESS). UNFORTUNATELY, OUR EXISTING SURVEILLANCE LAWS REALLY ONLY PROTECT THE "WHAT" BEING COMMUNICATED; THE GOVERNMENT'S POWERS TO DETERMINE "WHO" COMMUNICATED REMAIN LARGELY UNCHECKED.





Google

MARC ROTENBERG, EXECUTIVE DIRECTOR OF THE ELECTRONIC PRIVACY INFORMATION CENTER (EPIC) IN WASHINGTON, SAID THE CHAIN OF UNEXPECTED DISCLOSURES WAS NOT UNUSUAL IN COMPUTER-CENTRIC CASES. "IT'S A PARTICULAR PROBLEM WITH CYBER INVESTIGATIONS THEY RAPIDLY BECOME OPEN-ENDED BECAUSE THERE'S SUCH A HUGE QUANTITY OF INFORMATION AVAILABLE AND IT'S SO EASILY SEARCHABLE," HE SAID, ADDING, "IF THE C.I.A. DIRECTOR CAN GET CAUGHT, IT'S PRETTY MUCH OPEN SEASON ON EVERYONE ELSE."

Dearest Kitten, How I <3 U, Let me count the ways



WHISTLEBLOWER EDWARD SNOWDEN



<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>



<https://secure.flickr.com/photos/98137931@N02/9161328604/s>
<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>



<https://secure.flickr.com/photos/98137931@N02/9161328604/s>
<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>



PRISM/US-984XN

Overview

OR

The SIGAD Used Most in NSA Reporting

Overview

April 2013

Derived From: NSA/CSSM 1-52
Dated: 20070108
Declassify On: 20360901

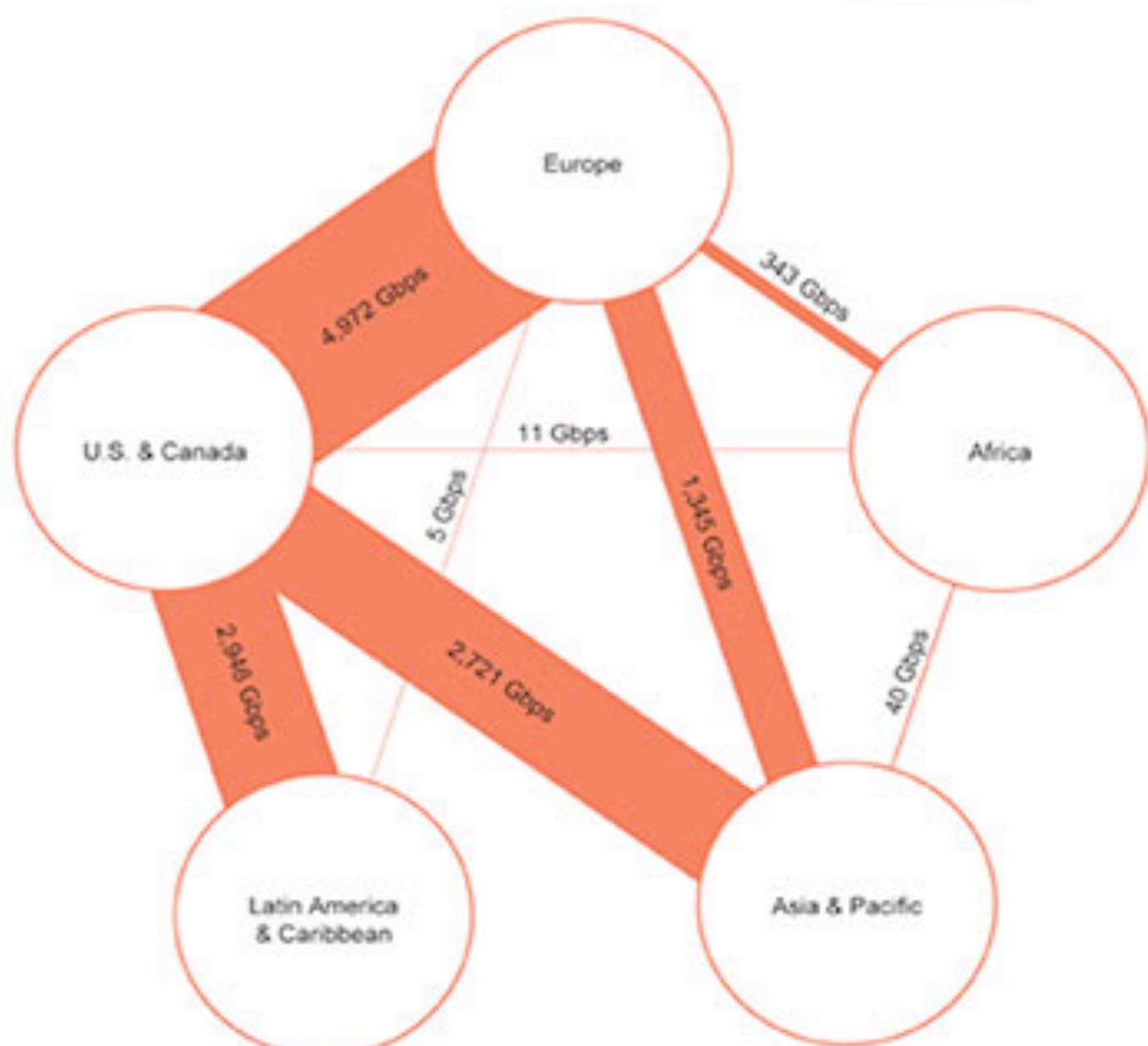


(TS//SI//NF) Introduction

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.

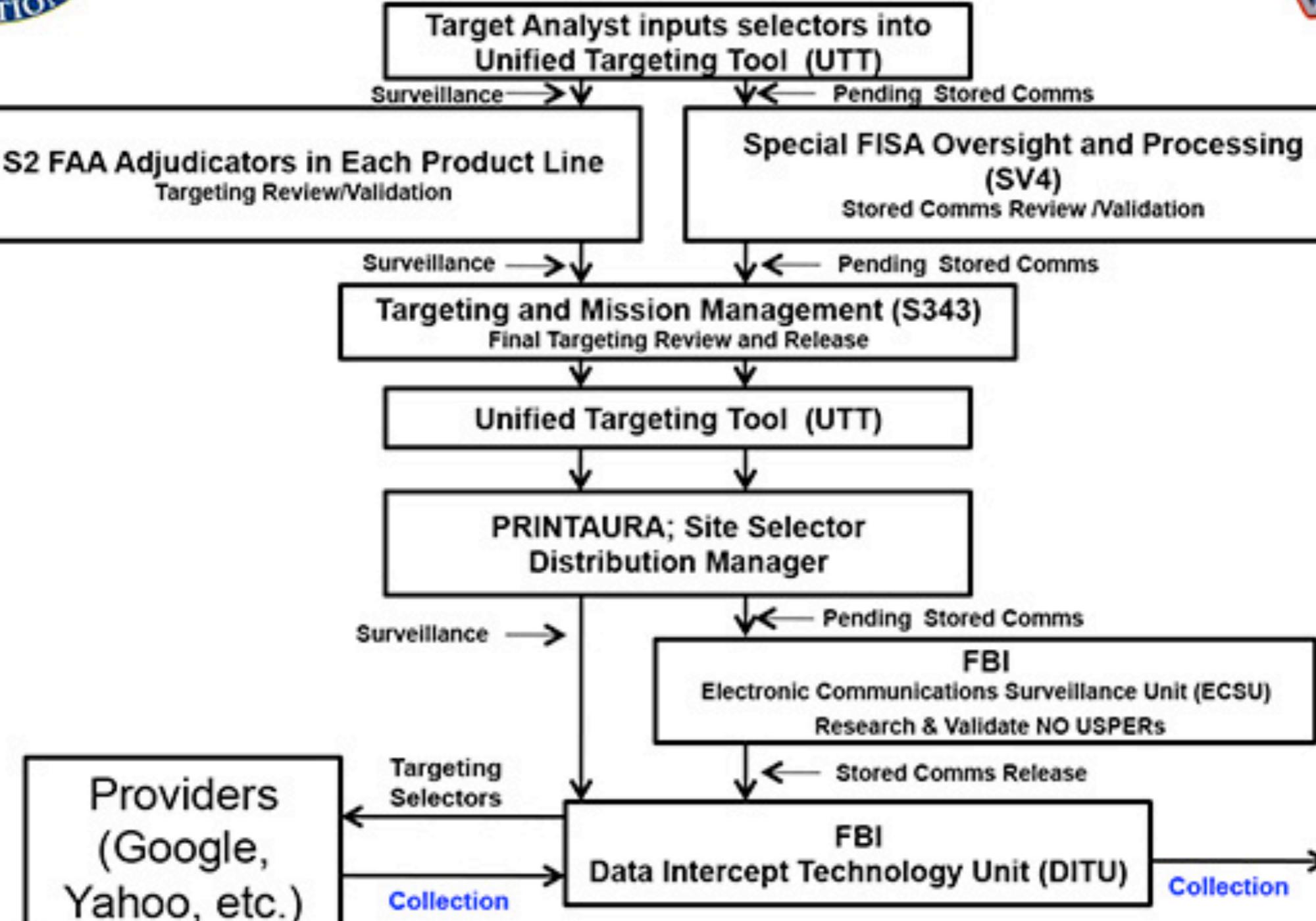


International Internet Regional Bandwidth Capacity in 2011

Source: Telegeography Research

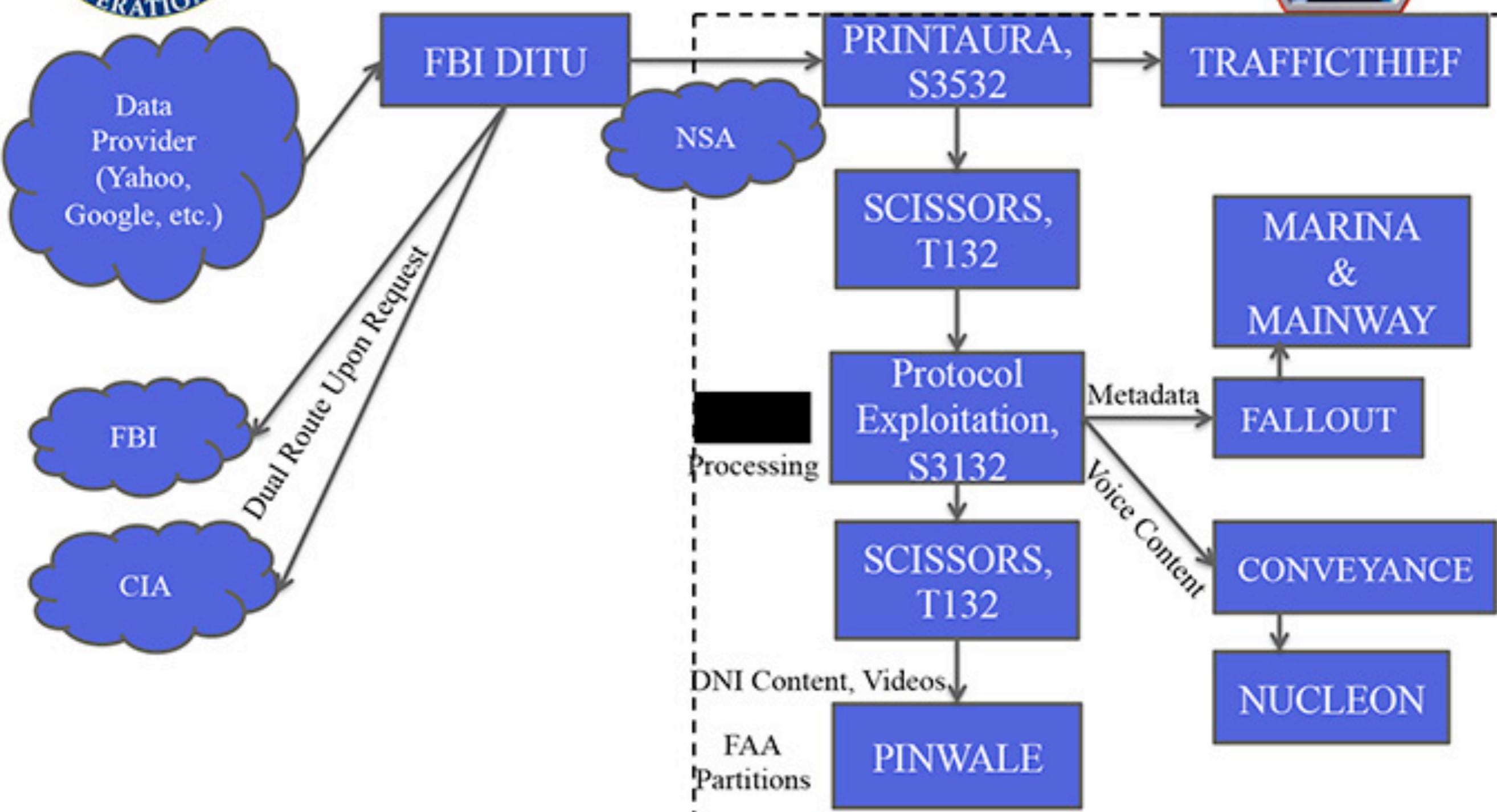


(TS//SI//NF) PRISM Tasking Process





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





(TS//SI//NF) PRISM Case Notations



P2ESQC120001234

PRISM Provider
 P1: Microsoft
 P2: Yahoo
 P3: Google
 P4: Facebook
 P5: PalTalk
 P6: YouTube
 P7: Skype
 P8: AOL
 PA: Apple

Fixed trigraph, denotes
 PRISM source collection

Year CASN established
 for selector

Serial #

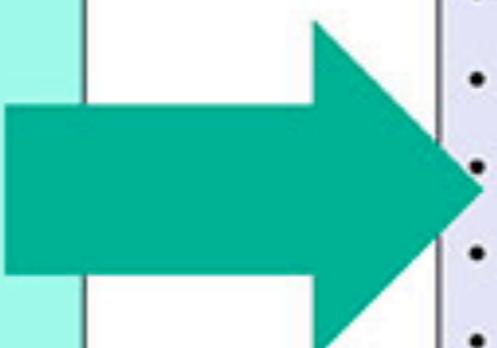
Content Type

- A: Stored Comms (Search)
- B: IM (chat)
- C: RTN-EDC (real-time notification of an e-mail event such as a login or sent message)
- D: RTN-IM (real-time notification of a chat login or logout event)
- E: E-Mail
- F: VoIP
- G: Full (WebForum)
- H: OSN Messaging (photos, wallposts, activity, etc.)
- I: OSN Basic Subscriber Info
- J: Videos
- . (dot): Indicates multiple types



Current Providers

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



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



What Will You Receive in Collection
(Surveillance and Stored Comms)?

It varies by provider. In general:

- 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:

[Go PRISMFAA](#)



(TS//SI//NF) FAA702 Operations

Two Types of Collection



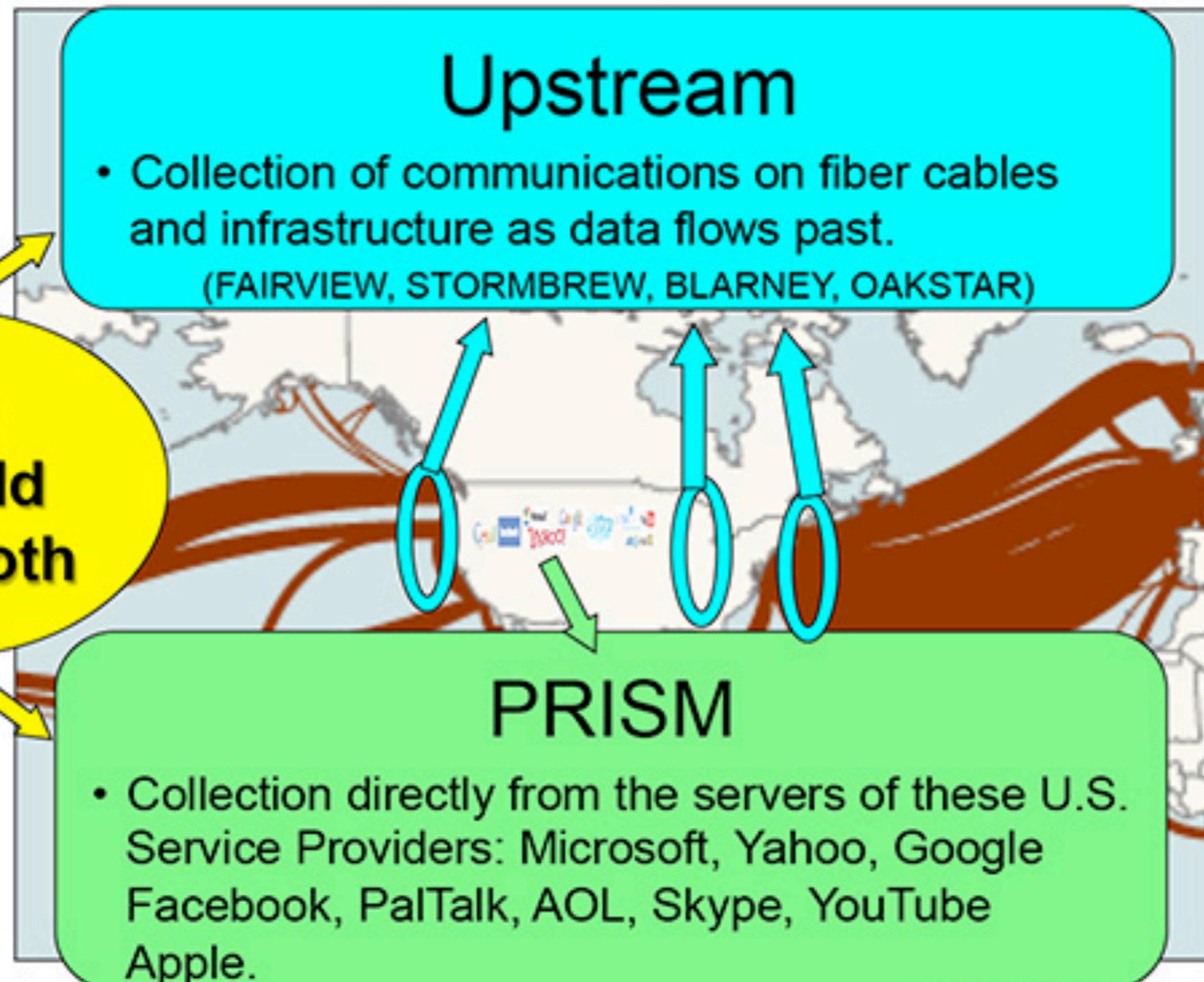
Upstream

- Collection of communications on fiber cables and infrastructure as data flows past.
(FAIRVIEW, STORMBREW, BLARNEY, OAKSTAR)

You
Should
Use Both

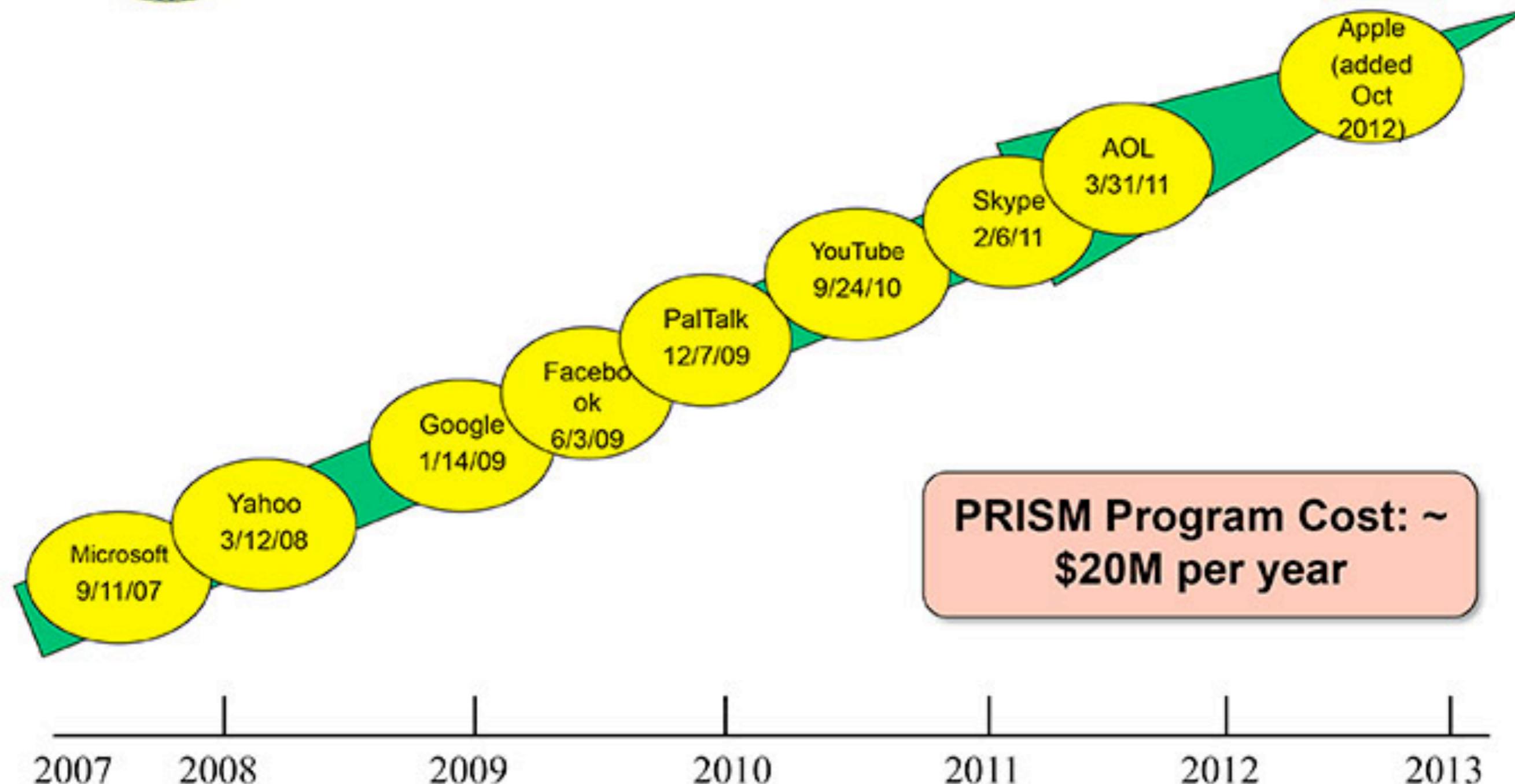
PRISM

- Collection directly from the servers of these U.S. Service Providers: Microsoft, Yahoo, Google Facebook, PalTalk, AOL, Skype, YouTube Apple.





(TS//SI//NF) Dates When PRISM Collection Began For Each Provider





(TS//SI//NF)

REPRISMFISA TIPS

(https://[REDACTED])



DYNAMIC PAGE - HIGHEST POSSIBLE CLASSIFICATION IS TOP SECRET//SI//TK//ORCON//NOFORN

REPRISMFISA

COUNTERTERRORISM

2013-Apr-05 13:10:28Z

Click on the PRISM icon first
(from the initial webpage)

PRISM ENTRIES

Last Load on Apr 05, 2013 at 12:22 PM GMT

Check the total record status, click on this link

QUICK LINKS

- See Entire List (Current)
- See Entire List (Expired)
- See Entire List (Current and Expired)
- See NSA List
- See New Records
- Ownership Count

If the total count is much less than this,
REPRISMFISA is having issues. E-MAIL
the REPRISMFISA HELP DESK AT

AND INFORM THEM

Records 1 - 50 out of 117625 << < Page 1 of 2354 > >> Records per page: 50

Clear Sort Order

Click on column headers to sort. * = column is not sortable.



SEARCH

The search form below can be used as a filter to see a partial list of records.

Search For:

AND OR

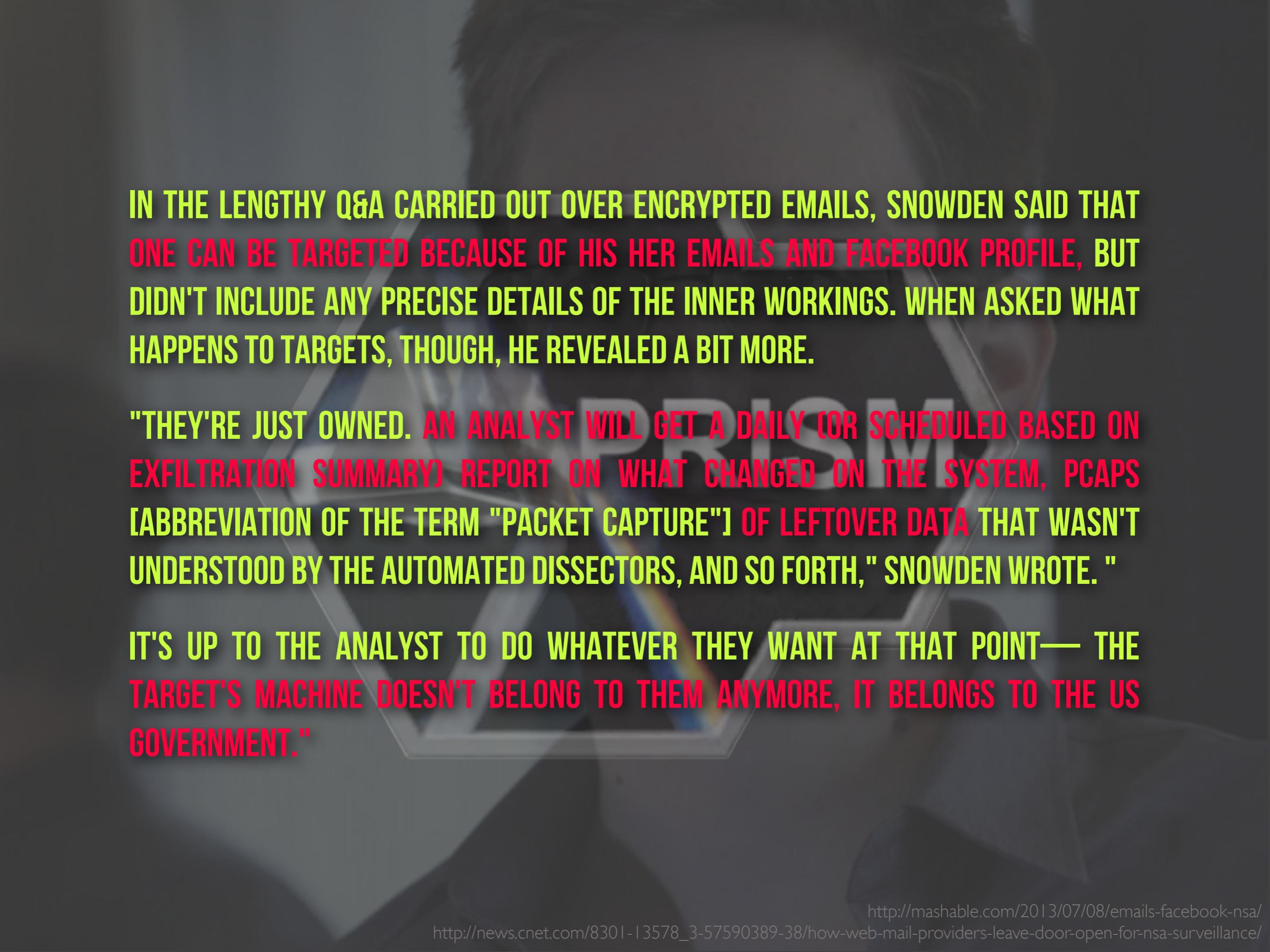
Expiration days

(<= from now)

Prism Current Entries



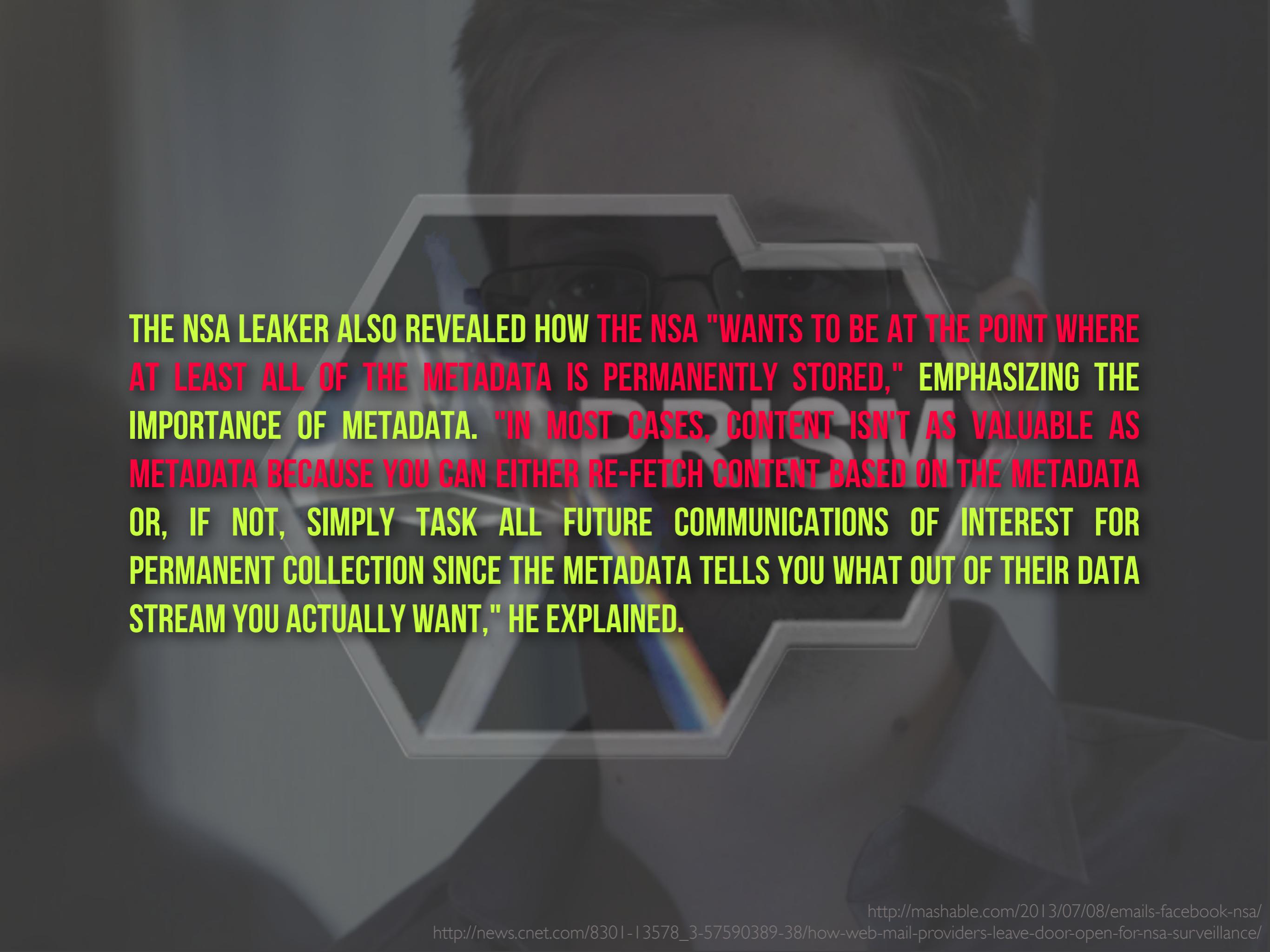
<https://secure.flickr.com/photos/98137931@N02/9161328604/s>
<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>



IN THE LENGTHY Q&A CARRIED OUT OVER ENCRYPTED EMAILS, SNOWDEN SAID THAT ONE CAN BE TARGETED BECAUSE OF HIS HER EMAILS AND FACEBOOK PROFILE, BUT DIDN'T INCLUDE ANY PRECISE DETAILS OF THE INNER WORKINGS. WHEN ASKED WHAT HAPPENS TO TARGETS, THOUGH, HE REVEALED A BIT MORE.

"THEY'RE JUST OWNED. AN ANALYST WILL GET A DAILY (OR SCHEDULED BASED ON EXFILTRATION SUMMARY) REPORT ON WHAT CHANGED ON THE SYSTEM, PCAPS [ABBREVIATION OF THE TERM "PACKET CAPTURE"] OF LEFTOVER DATA THAT WASN'T UNDERSTOOD BY THE AUTOMATED DISSECTORS, AND SO FORTH," SNOWDEN WROTE. "

IT'S UP TO THE ANALYST TO DO WHATEVER THEY WANT AT THAT POINT— THE TARGET'S MACHINE DOESN'T BELONG TO THEM ANYMORE, IT BELONGS TO THE US GOVERNMENT."



THE NSA LEAKER ALSO REVEALED HOW THE NSA "WANTS TO BE AT THE POINT WHERE AT LEAST ALL OF THE METADATA IS PERMANENTLY STORED," EMPHASIZING THE IMPORTANCE OF METADATA. "IN MOST CASES, CONTENT ISN'T AS VALUABLE AS METADATA BECAUSE YOU CAN EITHER RE-FETCH CONTENT BASED ON THE METADATA OR, IF NOT, SIMPLY TASK ALL FUTURE COMMUNICATIONS OF INTEREST FOR PERMANENT COLLECTION SINCE THE METADATA TELLS YOU WHAT OUT OF THEIR DATA STREAM YOU ACTUALLY WANT," HE EXPLAINED.

TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL

Email Address

The screenshot shows the XKEYSCORE interface. At the top, there's a header with the XKEYSCORE logo and some status text. Below it is a table with email metadata:

Subject:	RE: Malaysia Tax
From:	Zachary, Seth <zachary@xkeyscores.com>
To:	Malaysian Internal Revenue Board <Post.Janet.Van.TenBergen@P1>
Cc:	Shahrukh Shariff <shahrukh@ministry-of-finance.go.id>
Date:	Tue Jan 23 12:41:25 GMT 2008
Attachments:	@imexCC (sg, SC) [1 item]

Below this is the "X-KEYSCORE C2C Session Viewer" window. It shows a list of files and a preview pane. A red circle highlights the "email_addresses.txt" file in the list.

In the preview pane, there's a list of email addresses. One specific entry is circled in red:

```

From: <zachary@xkeyscores.com>
To: <shahrukh@ministry-of-finance.go.id>
Subject: RE: Malaysia Tax
Date: Tue, Jan 23, 2008 at 12:41:25 PM
Message-ID: <12045753000300>
X-Mailer: XKEYSCORE
Content-Type: multipart/mixed; boundary="boundary_12045753000300"
MIME-Version: 1.0
X-Content-Type-Options: nosniff
X-Content-Language: en-US
X-Content-Transfer-Encoding: quoted-printable
X-Content-Description: This is a multi-part message in MIME format.
--boundary_12045753000300
Content-Type: text/plain; charset="utf-8"
Content-Transfer-Encoding: quoted-printable
Content-Description: Message body
shahrukh@ministry-of-finance.go.id

```

A callout box points to this circled entry with the text: "XKEYSCORE parses out everything it 'thinks' is an email address, so don't be fooled by mis-hits".

XKEYSCORE

the guardian

DISM

TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL

Why are we interested in HTTP?

facebook

YAHOO!

twitter

myspace.com.
a place for friends

Because nearly everything a typical user does on
the Internet uses HTTP

CNN.com



@mail.ru

Google
Earth

Gmail

TOP SECRET//COMINT//REL TO USA, AUS, CAN, GBR, NZL

Email Address

XKEYSCORE

CHI Display | Raw Data | CHI Trace

Subject: RE: Malaysia Tax
From: Zachary, Seth <zachary@xkeyscores.com>
To: Malysia Internal Revenue Board <Post.Janet.Van.Tersburg@Fin.Janet.Van.Tersburg.D.FI>
Cc: Shahnaz Khan <shahnaz.khan@fin.malaysia.gov.my>
Date: Tue Jan 23 12:49:25 GMT 2008
Attachments: #inboxCC (sgz, SC 1 bytes)

X-KEYSCORE C2C Session Viewer

Date/Time Case Number From IP To IP From Port To Port Recordset Len
2008-01-23 12:49:25 092A373500000000 136.175.154.225 (United States) 219.63.183.55 (Malaysia) 39247 25 http 480

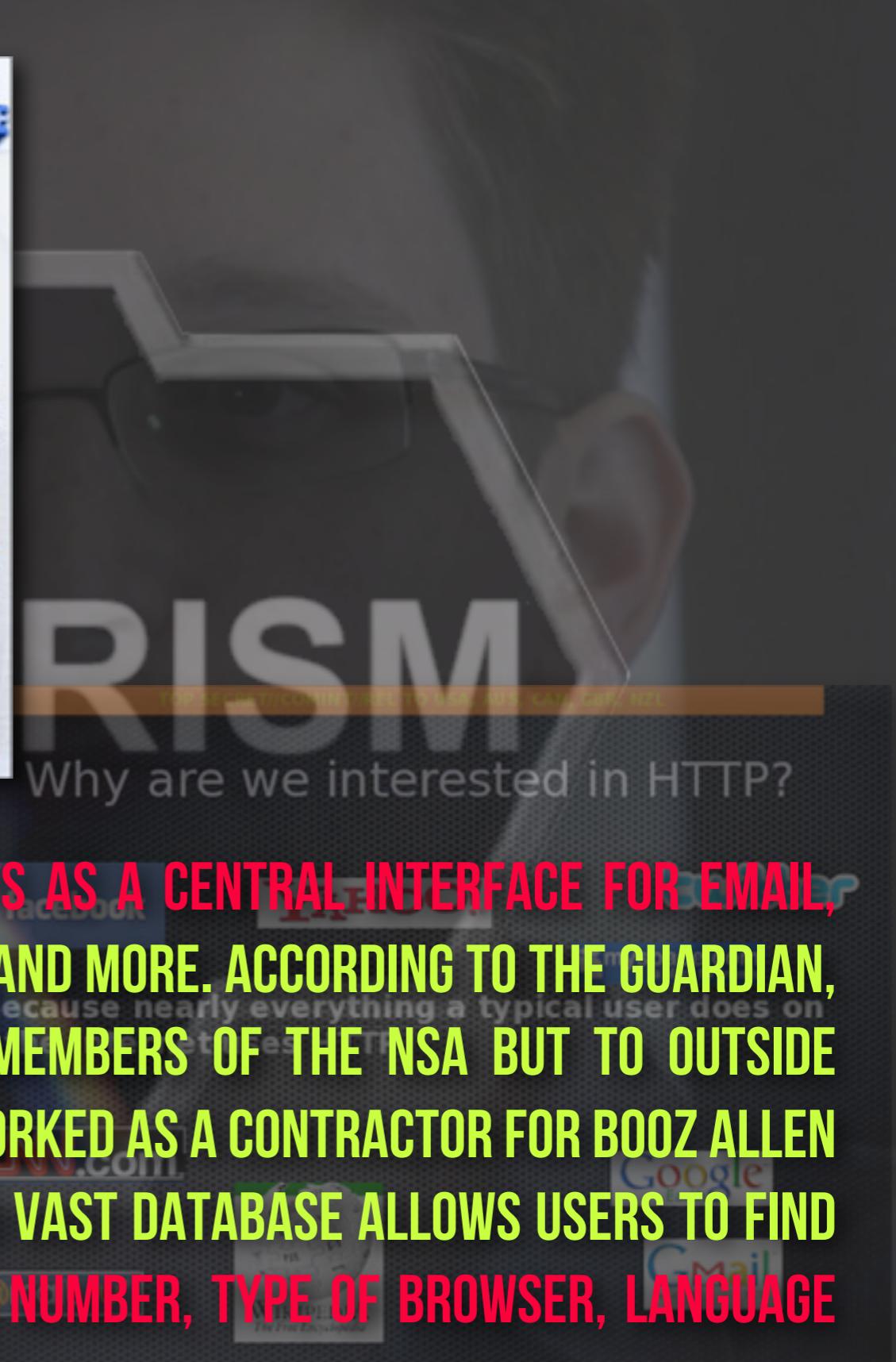
User Header (2) Attachment (2) Meta (10)

attribute_info.txt email_address.txt tech.html application_id.html apprec.html xks_snippet.txt phone_number.html fingerprints.xml user_activity.xml ip_ic_trie.txt

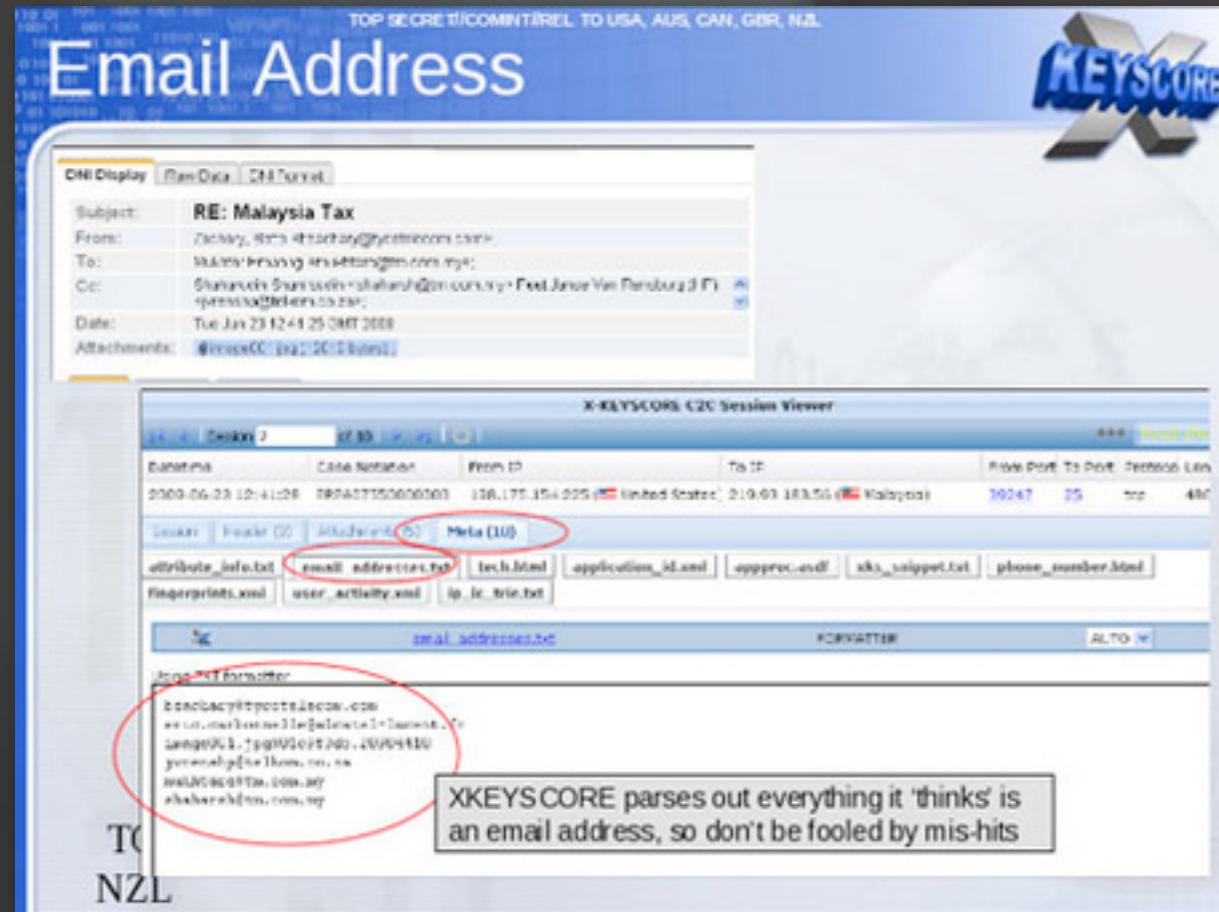
mail_address.txt FORMATTER ALTO

From: [REDACTED]
To: [REDACTED]
Subject: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

XKEYSCORE parses out everything it 'thinks' is an email address, so don't be fooled by mis-hits



PROGRAM CALLED XKEYSCORE, WHICH ACTS AS A CENTRAL INTERFACE FOR EMAIL, FACEBOOK CHAT, WEB BROWSING HISTORY, AND MORE. ACCORDING TO THE GUARDIAN, XKEYSCORE IS AVAILABLE NOT ONLY TO MEMBERS OF THE NSA BUT TO OUTSIDE ANALYSTS LIKE EDWARD SNOWDEN, WHO WORKED AS A CONTRACTOR FOR BOOZ ALLEN BEFORE HIS FLIGHT TO HONG KONG, AND ITS VAST DATABASE ALLOWS USERS TO FIND PEOPLE BY EMAIL ADDRESS, NAME, PHONE NUMBER, TYPE OF BROWSER, LANGUAGE USED, IP ADDRESS, OR SPECIFIC KEYWORDS.

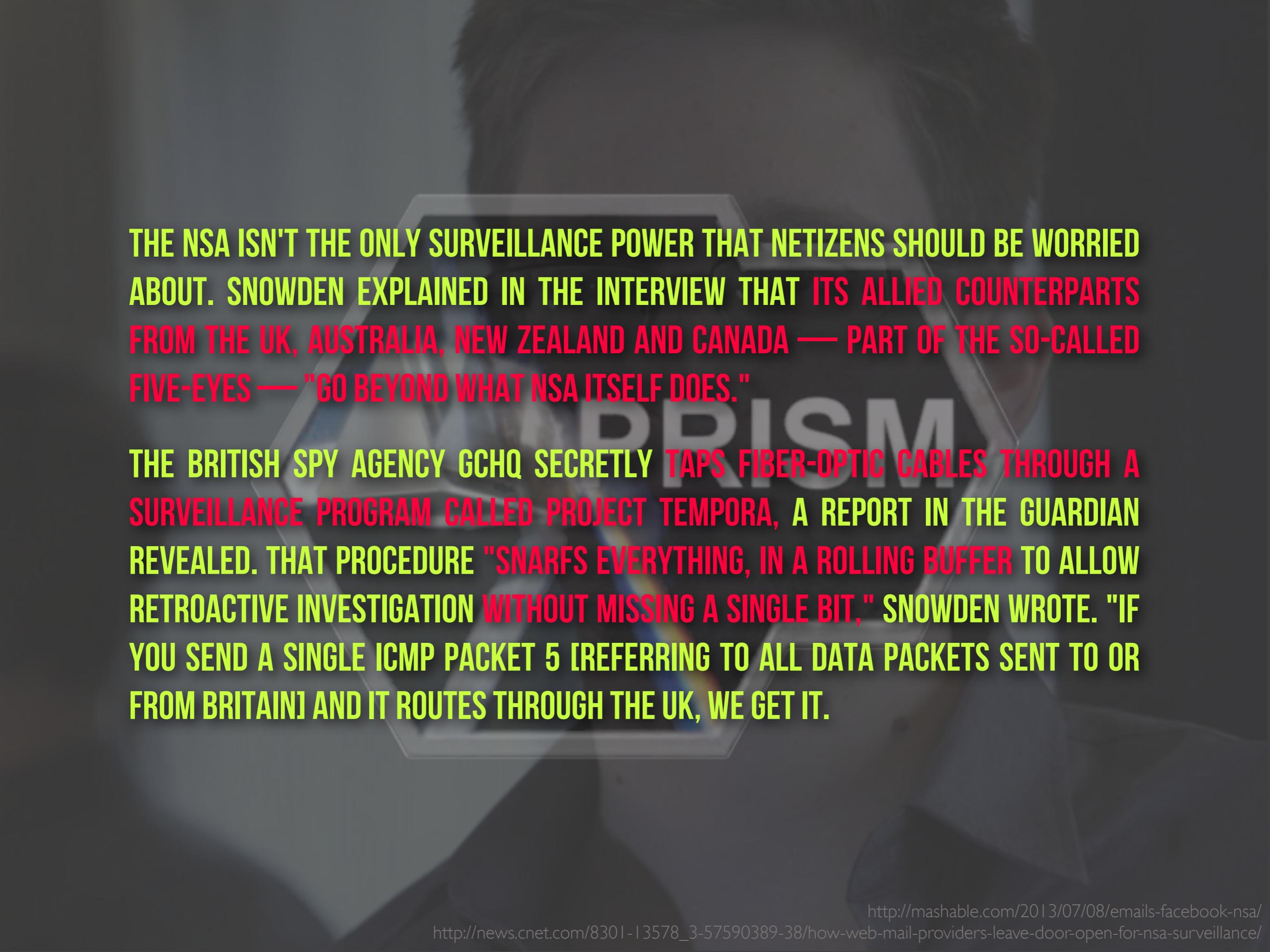


THE GUARDIAN REPORTS THAT IN 2012, 41 BILLION INDIVIDUAL RECORDS WERE STORED IN XKEYSCORE OVER ONE THIRTY-DAY PERIOD. ACTUAL CONTENT LIKE EMAIL TEXT IS ALSO INCLUDED IN THE DATABASE. BECAUSE OF THE HIGH VOLUME OF INCOMING RECORDS, HOWEVER, THE CONTENT OF THINGS LIKE EMAILS IS STORED FOR ONLY THREE TO FIVE DAYS, WITH METADATA STORED FOR THIRTY DAYS. IF CONTENT IS DEEMED "INTERESTING," THOUGH, IT'S MOVED TO OTHER DATABASES, WHERE IT CAN BE STORED FOR UP TO FIVE YEARS.

RISM

TOP SECRET//COMINT//REL TO USA, FVEY, CAN, GBR//NZL





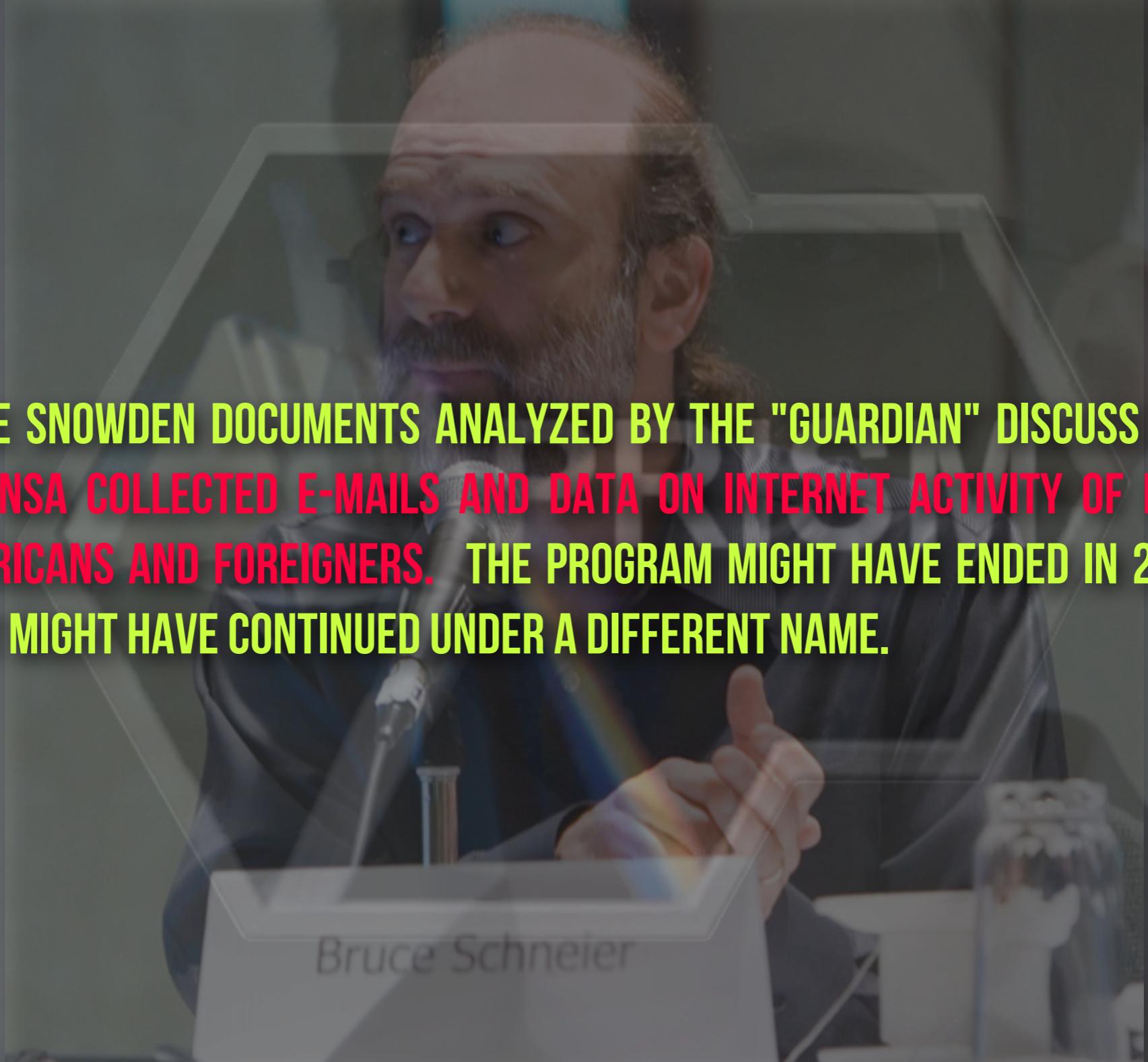
THE NSA ISN'T THE ONLY SURVEILLANCE POWER THAT NETIZENS SHOULD BE WORRIED ABOUT. SNOWDEN EXPLAINED IN THE INTERVIEW THAT ITS ALLIED COUNTERPARTS FROM THE UK, AUSTRALIA, NEW ZEALAND AND CANADA — PART OF THE SO-CALLED FIVE-EYES — "GO BEYOND WHAT NSA ITSELF DOES."

THE BRITISH SPY AGENCY GCHQ SECRETLY TAPS FIBER-OPTIC CABLES THROUGH A SURVEILLANCE PROGRAM CALLED PROJECT TEMPORA, A REPORT IN THE GUARDIAN REVEALED. THAT PROCEDURE "SNARFS EVERYTHING, IN A ROLLING BUFFER TO ALLOW RETROACTIVE INVESTIGATION WITHOUT MISSING A SINGLE BIT," SNOWDEN WROTE. "IF YOU SEND A SINGLE ICMP PACKET 5 [REFERRING TO ALL DATA PACKETS SENT TO OR FROM BRITAIN] AND IT ROUTES THROUGH THE UK, WE GET IT.



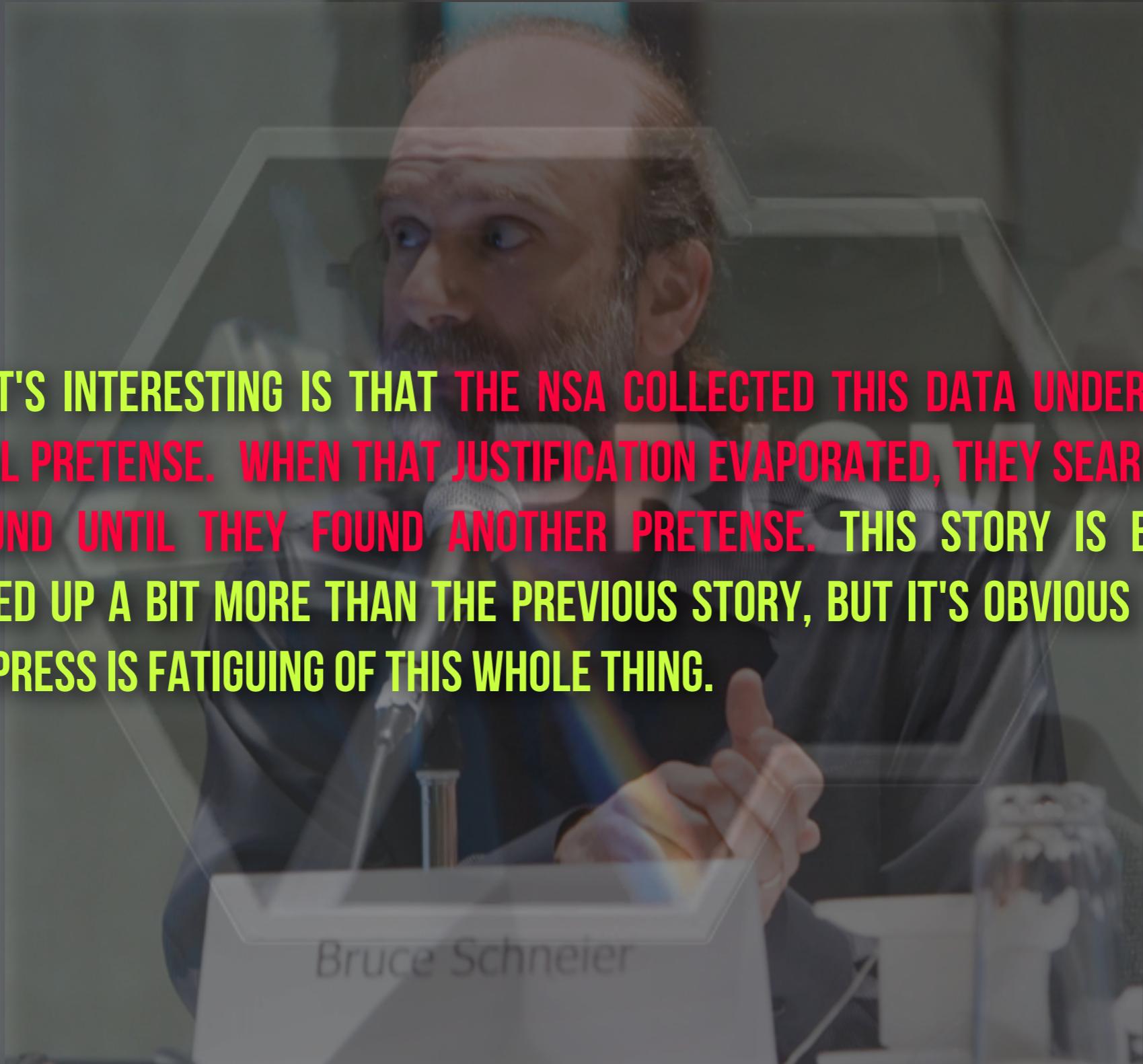
Bruce Schneier

https://www.schneier.com/blog/archives/2013/07/nsa_e-mail_eave.html
<https://secure.flickr.com/photos/villoks/492857088/sizes/l/in/photostream/>
http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/



MORE SNOWDEN DOCUMENTS ANALYZED BY THE "GUARDIAN" DISCUSS HOW THE NSA COLLECTED E-MAILS AND DATA ON INTERNET ACTIVITY OF BOTH AMERICANS AND FOREIGNERS. THE PROGRAM MIGHT HAVE ENDED IN 2011, OR IT MIGHT HAVE CONTINUED UNDER A DIFFERENT NAME.

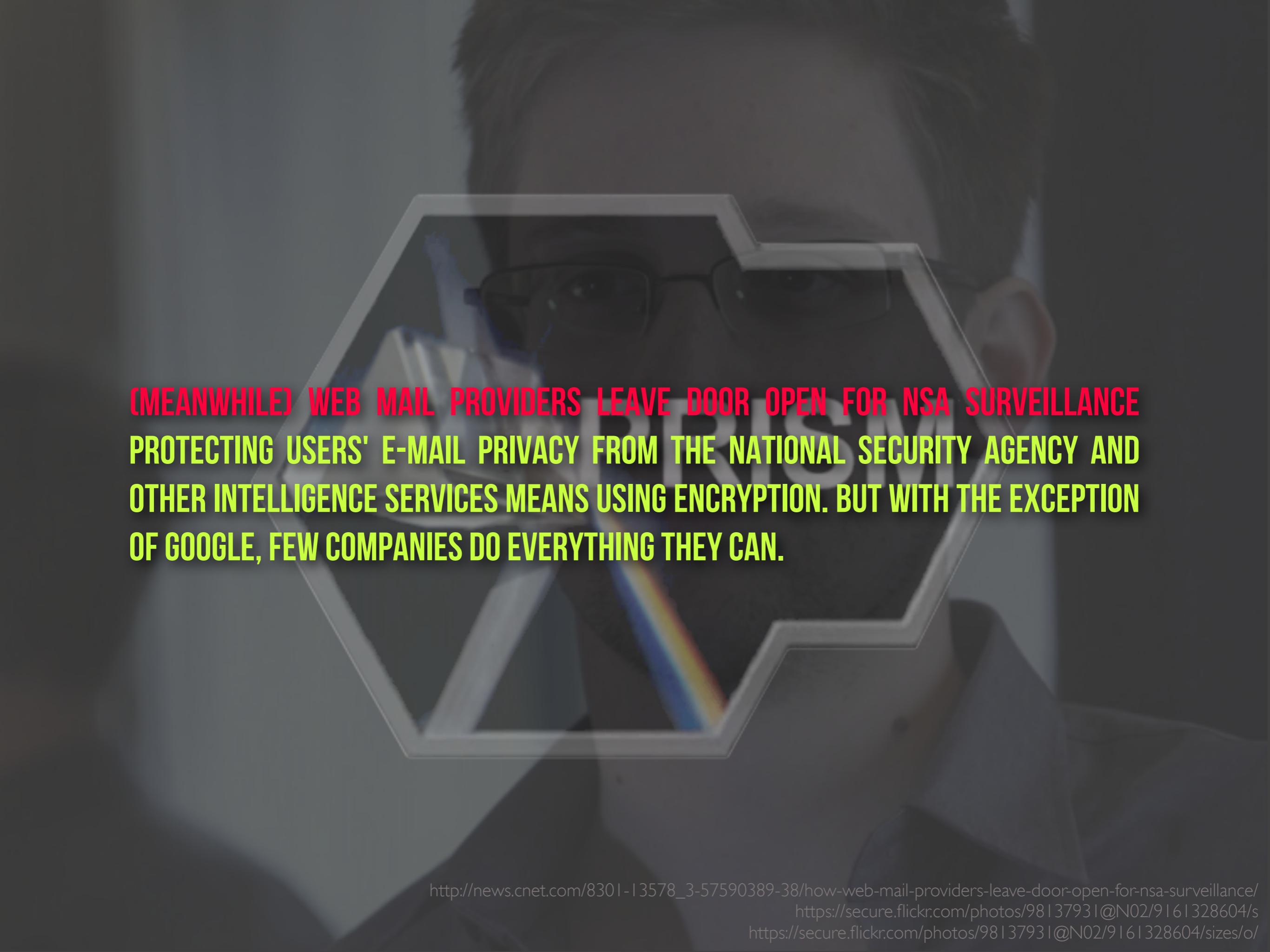
**WHAT'S INTERESTING IS THAT THE NSA COLLECTED THIS DATA UNDER ONE
LEGAL PRETENSE. WHEN THAT JUSTIFICATION EVAPORATED, THEY SEARCHED
AROUND UNTIL THEY FOUND ANOTHER PRETENSE. THIS STORY IS BEING
PICKED UP A BIT MORE THAN THE PREVIOUS STORY, BUT IT'S OBVIOUS THAT
THE PRESS IS FATIGUING OF THIS WHOLE THING.**



https://www.schneier.com/blog/archives/2013/07/nsa_e-mail_eave.html

<https://secure.flickr.com/photos/villoks/492857088/sizes/l/in/photostream/>

http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/

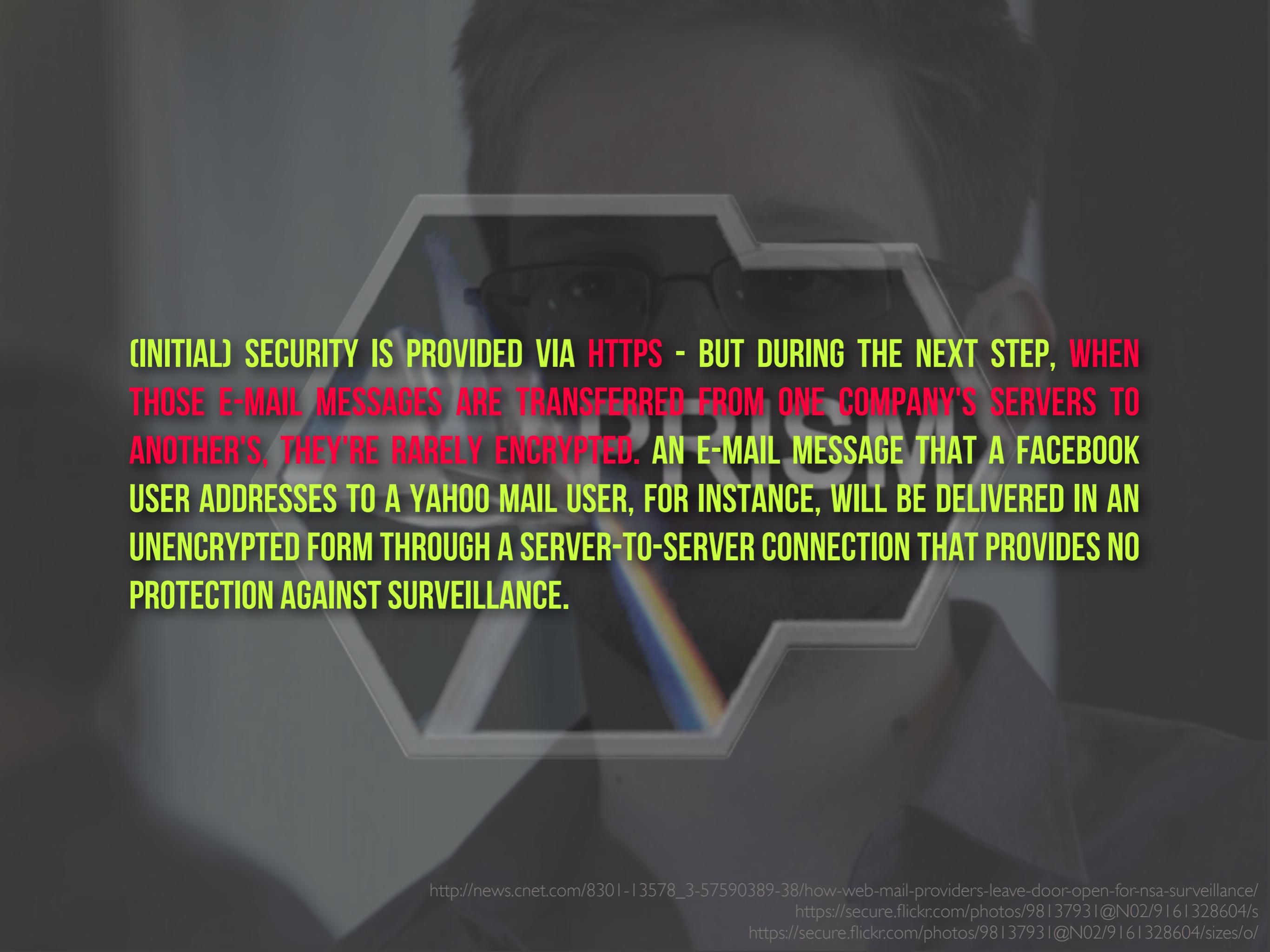
A grayscale photograph of a person from the side, wearing glasses and looking down at a computer monitor. The monitor displays a large, semi-transparent watermark reading "SECURITY". The person's reflection is visible in the glass of the monitor.

**(MEANWHILE) WEB MAIL PROVIDERS LEAVE DOOR OPEN FOR NSA SURVEILLANCE
PROTECTING USERS' E-MAIL PRIVACY FROM THE NATIONAL SECURITY AGENCY AND
OTHER INTELLIGENCE SERVICES MEANS USING ENCRYPTION. BUT WITH THE EXCEPTION
OF GOOGLE, FEW COMPANIES DO EVERYTHING THEY CAN.**

http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/

<https://secure.flickr.com/photos/98137931@N02/9161328604/s>

<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>

A dark, moody photograph of a person from behind, wearing glasses and looking down at a laptop screen. A large, semi-transparent watermark of the National Security Agency (NSA) logo is centered over the image. The text in the watermark reads "NSA" in a stylized font.

(INITIAL) SECURITY IS PROVIDED VIA HTTPS - BUT DURING THE NEXT STEP, WHEN THOSE E-MAIL MESSAGES ARE TRANSFERRED FROM ONE COMPANY'S SERVERS TO ANOTHER'S, THEY'RE RARELY ENCRYPTED. AN E-MAIL MESSAGE THAT A FACEBOOK USER ADDRESSES TO A YAHOO MAIL USER, FOR INSTANCE, WILL BE DELIVERED IN AN UNENCRYPTED FORM THROUGH A SERVER-TO-SERVER CONNECTION THAT PROVIDES NO PROTECTION AGAINST SURVEILLANCE.

US webmail providers supporting server-to-server encryption (tls)

Gmail™ = YES?
by Google

MX Server	Pref	Conn-nect	All-owed	Can Use	TLS Adv	Cert OK	TLS Neg	Sndr OK	Rcvr OK
gmail-smtp-in.l.google.com [173.194.74.26]	5	OK (31ms)	OK (28ms)	OK (204ms)	OK (30ms)	FAIL	OK (563ms)	OK (43ms)	OK (786ms)
alt1.gmail-smtp-in.l.google.com [173.194.66.26]	10	OK (103ms)	OK (102ms)	OK (410ms)	OK (105ms)	FAIL	OK (1,619ms)	OK (1,384ms)	OK (528ms)
alt2.gmail-smtp-in.l.google.com [74.125.136.26]	20	OK (583ms)	OK (101ms)	OK (102ms)	OK (103ms)	FAIL	OK (1,325ms)	OK (102ms)	OK (540ms)
alt3.gmail-smtp-in.l.google.com [173.194.70.26]	30	OK (105ms)	OK (114ms)	OK (119ms)	OK (118ms)	FAIL	OK (924ms)	OK (420ms)	OK (562ms)
alt4.gmail-smtp-in.l.google.com [173.194.69.26]	40	OK (111ms)	OK (110ms)	OK (112ms)	OK (112ms)	FAIL	OK (1,354ms)	OK (112ms)	OK (491ms)
Average		100%	100%	100%	100%	0%	100%	100%	100%

 Microsoft® Hotmail.™ = NO!

MX Server	Pref	Conn-nect	All-owed	Can Use	TLS Adv	Cert OK	TLS Neg	Sndr OK	Rcvr OK
mx2.hotmail.com [65.55.92.152]	5	OK (81ms)	OK (65ms)	OK (35ms)	FAIL	FAIL	FAIL	OK (1,346ms)	OK (611ms)
mx3.hotmail.com [65.54.188.72]	5	OK (79ms)	OK (273ms)	OK (267ms)	FAIL	FAIL	FAIL	OK (951ms)	OK (293ms)
mx4.hotmail.com [65.55.37.104]	5	OK (81ms)	OK (292ms)	OK (295ms)	FAIL	FAIL	FAIL	OK (1,146ms)	OK (455ms)
mx1.hotmail.com [65.55.92.168]	5	OK (290ms)	OK (77ms)	OK (291ms)	FAIL	FAIL	FAIL	OK (901ms)	OK (246ms)
Average		100%	100%	100%	0%	0%	0%	100%	100%

YAHOO! = NO!

MX Server	Pref	Conn-nect	All-owed	Can Use	TLS Adv	Cert OK	TLS Neg	Sndr OK	Rcvr OK
mta7.am0.yahoodns.net [98.136.217.203]	1	OK (79ms)	OK (77ms)	OK (76ms)	FAIL	FAIL	FAIL	OK (439ms)	OK (75ms)
mta6.am0.yahoodns.net [98.136.216.25]	1	OK (83ms)	OK (85ms)	OK (197ms)	FAIL	FAIL	FAIL	OK (448ms)	OK (345ms)
mta5.am0.yahoodns.net [98.136.216.26]	1	OK (775ms)	OK (51ms)	OK (52ms)	FAIL	FAIL	FAIL	OK (1,442ms)	OK (51ms)
Average		100%	100%	100%	0%	0%	0%	100%	100%

 = NO!

MX Server	Pref	Conn-nect	All-owed	Can Use	TLS Adv	Cert OK	TLS Neg	Sndr OK	Rcvr OK
mailin-01.mx.aol.com [64.12.90.98]	15	OK (27ms)	OK (185ms)	OK (76ms)	FAIL	FAIL	FAIL	OK (693ms)	OK (34ms)
mailin-02.mx.aol.com [64.12.90.65]	15	OK (27ms)	OK (261ms)	OK (31ms)	FAIL	FAIL	FAIL	OK (512ms)	OK (32ms)
mailin-03.mx.aol.com [205.188.190.2]	15	OK (114ms)	OK (295ms)	OK (29ms)	FAIL	FAIL	FAIL	OK (632ms)	OK (32ms)
mailin-04.mx.aol.com [205.188.146.194]	15	OK (26ms)	OK (231ms)	OK (30ms)	FAIL	FAIL	FAIL	OK (328ms)	OK (171ms)
Average		100%	100%	100%	0%	0%	0%	100%	100%

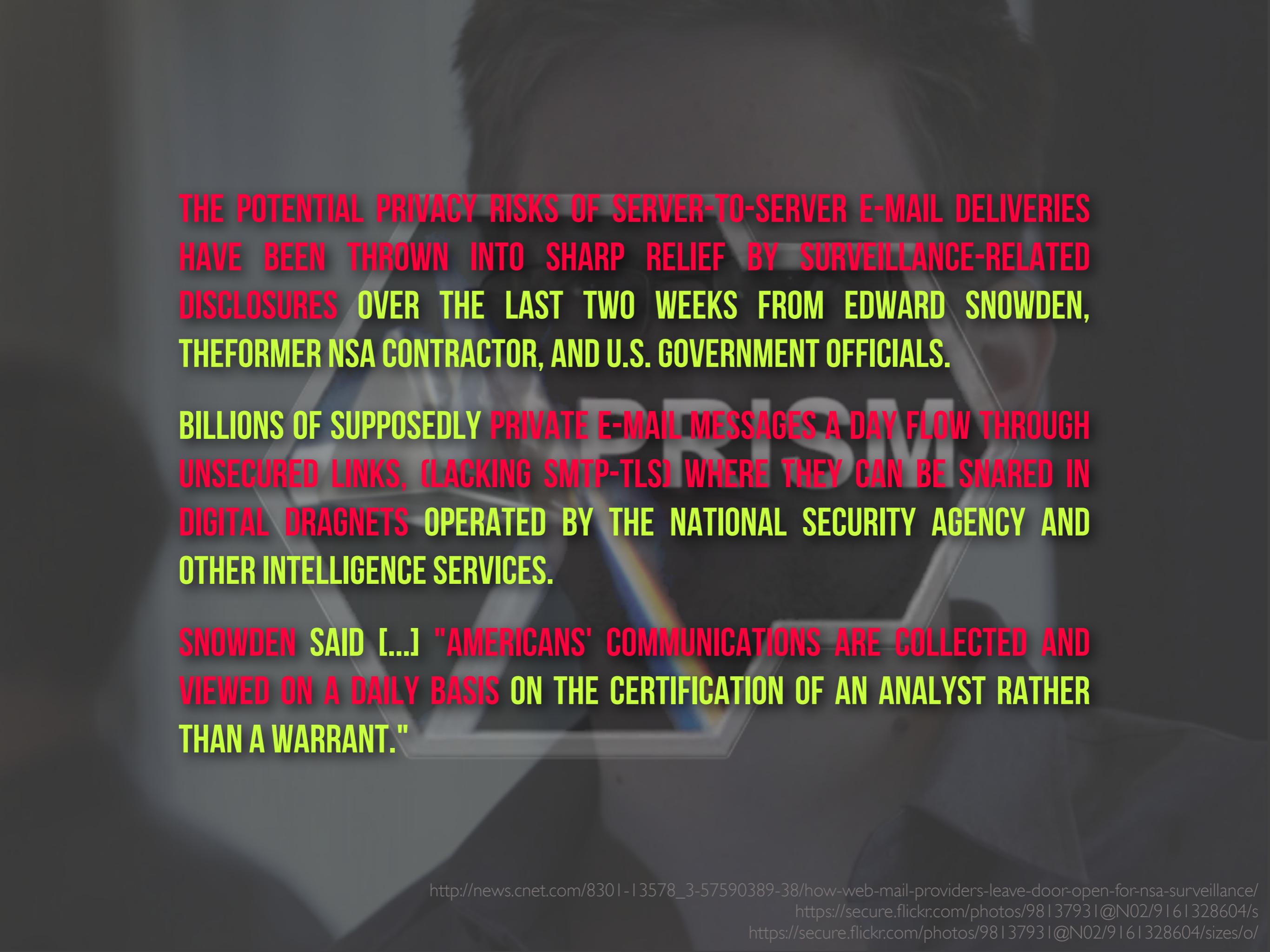
(emails between these services can be monitored)

by: ashk4n - 06/17/2013 - using <http://www.checktls.com/>

http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/

<https://secure.flickr.com/photos/98137931@N02/9161328604/s>

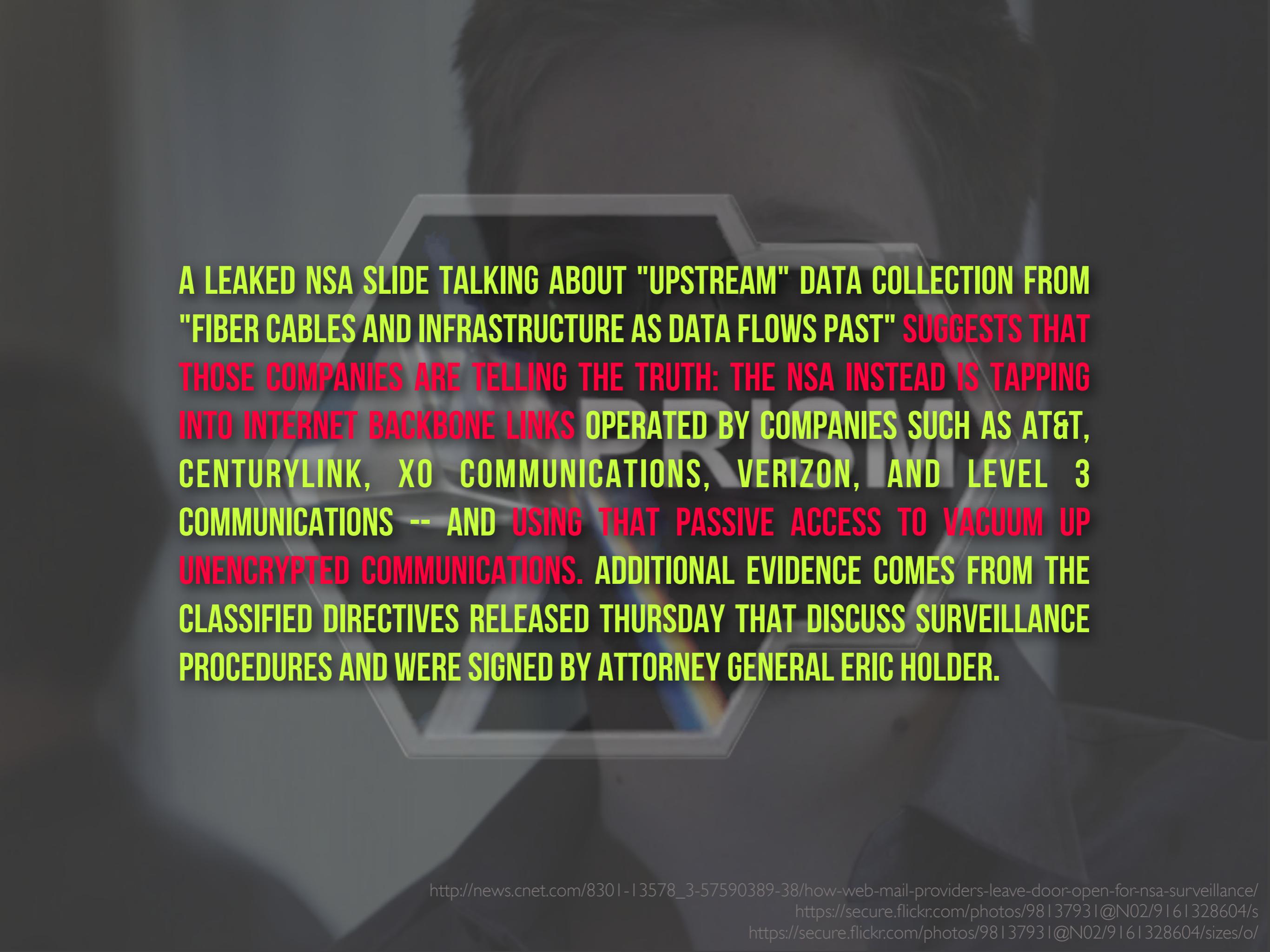
<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>



THE POTENTIAL PRIVACY RISKS OF SERVER-TO-SERVER E-MAIL DELIVERIES HAVE BEEN THROWN INTO SHARP RELIEF BY SURVEILLANCE-RELATED DISCLOSURES OVER THE LAST TWO WEEKS FROM EDWARD SNOWDEN, THEFORMER NSA CONTRACTOR, AND U.S. GOVERNMENT OFFICIALS.

BILLIONS OF SUPPOSEDLY PRIVATE E-MAIL MESSAGES A DAY FLOW THROUGH UNSECURED LINKS, (LACKING SMTP-TLS) WHERE THEY CAN BE SNARED IN DIGITAL DRAGNETS OPERATED BY THE NATIONAL SECURITY AGENCY AND OTHER INTELLIGENCE SERVICES.

SNOWDEN SAID [...] "AMERICANS' COMMUNICATIONS ARE COLLECTED AND VIEWED ON A DAILY BASIS ON THE CERTIFICATION OF AN ANALYST RATHER THAN A WARRANT."



A LEAKED NSA SLIDE TALKING ABOUT "UPSTREAM" DATA COLLECTION FROM "FIBER CABLES AND INFRASTRUCTURE AS DATA FLOWS PAST" SUGGESTS THAT THOSE COMPANIES ARE TELLING THE TRUTH: THE NSA INSTEAD IS TAPPING INTO INTERNET BACKBONE LINKS OPERATED BY COMPANIES SUCH AS AT&T, CENTURYLINK, XO COMMUNICATIONS, VERIZON, AND LEVEL 3 COMMUNICATIONS -- AND USING THAT PASSIVE ACCESS TO VACUUM UP UNENCRYPTED COMMUNICATIONS. ADDITIONAL EVIDENCE COMES FROM THE CLASSIFIED DIRECTIVES RELEASED THURSDAY THAT DISCUSS SURVEILLANCE PROCEDURES AND WERE SIGNED BY ATTORNEY GENERAL ERIC HOLDER.



<https://secure.flickr.com/photos/98137931@N02/9161328604/s>
<https://secure.flickr.com/photos/98137931@N02/9161328604/sizes/o/>



<http://www.guardian.co.uk/world/2013/jun/27/nsa-data-mining-authorised-obama> |
http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/



**THE OBAMA ADMINISTRATION HAD ALLOWED FOR THE CONTINUATION OF AN
NSA DATA COLLECTION PROGRAM FOR TWO YEARS STARTED DURING
PRESIDENT GEORGE W. BUSH'S FIRST MANDATE IN 2001.**

<https://www.net-security.org/secworld.php?id=15159>

<http://www.guardian.co.uk/world/2013/jun/27/nsa-data-mining-authorised-obama>

http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/



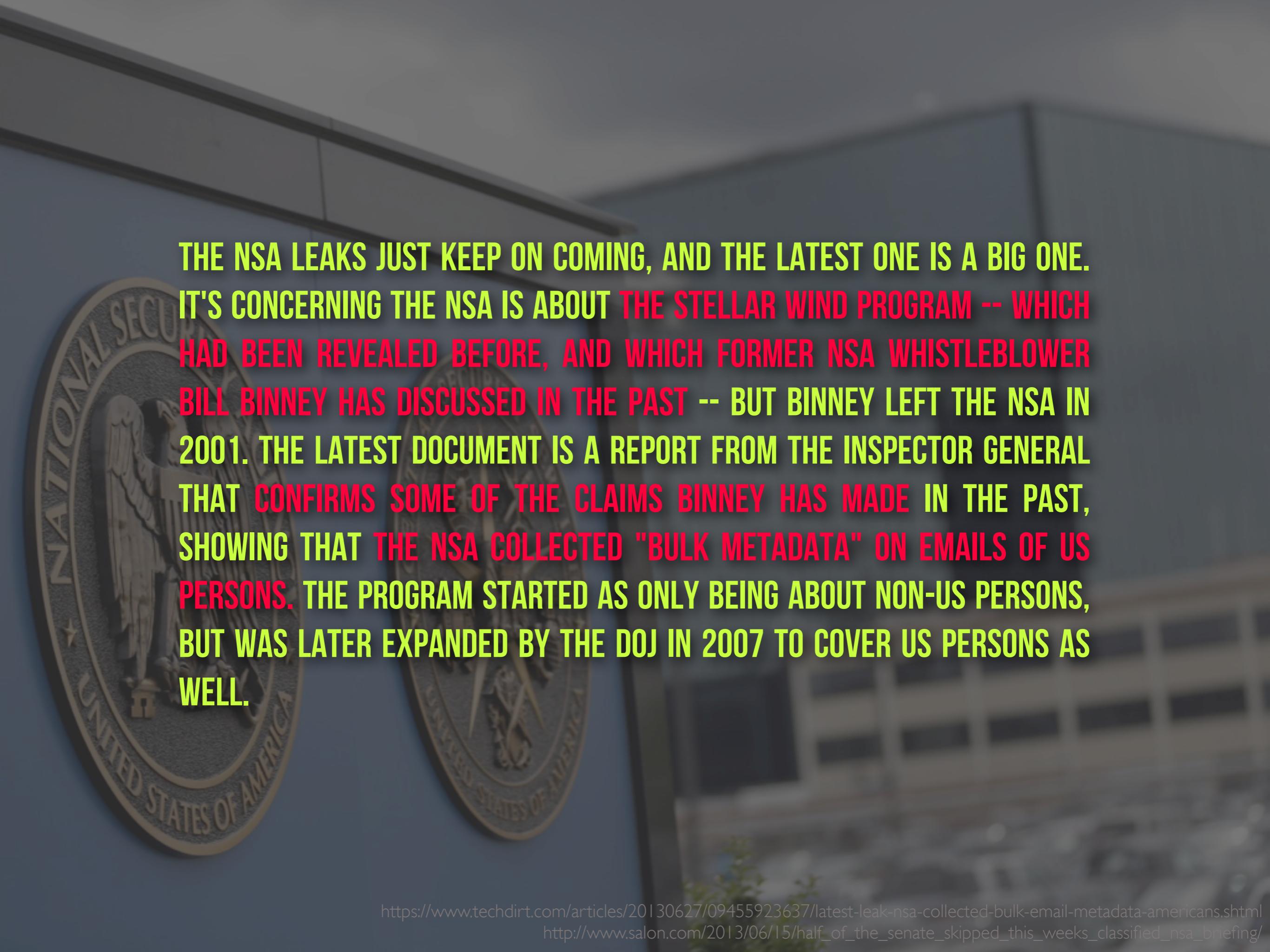
©WWW.MATTBORS.COM DIST. BY UNIVERSAL UCLICK 6-21-13



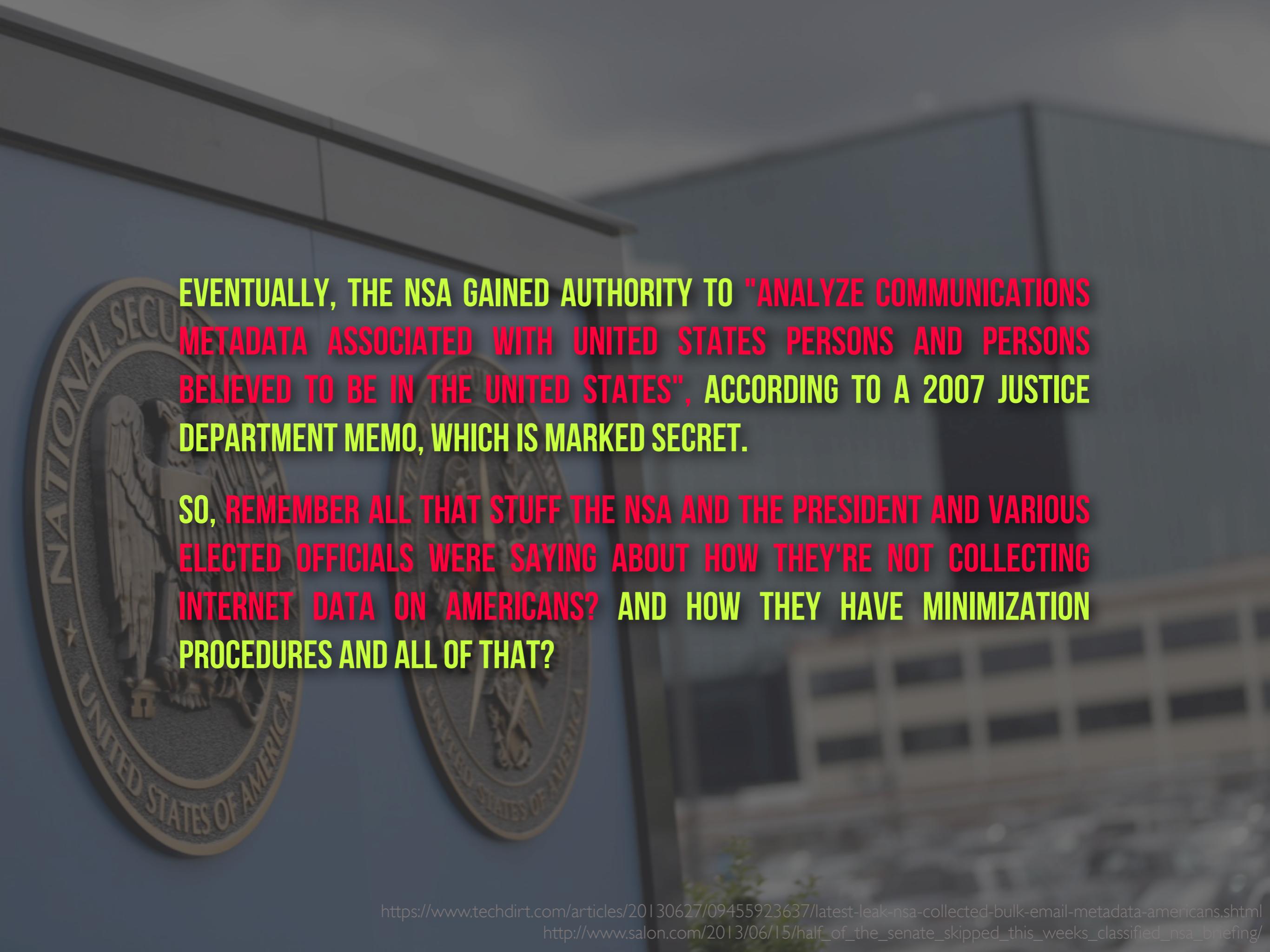
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THE NSA



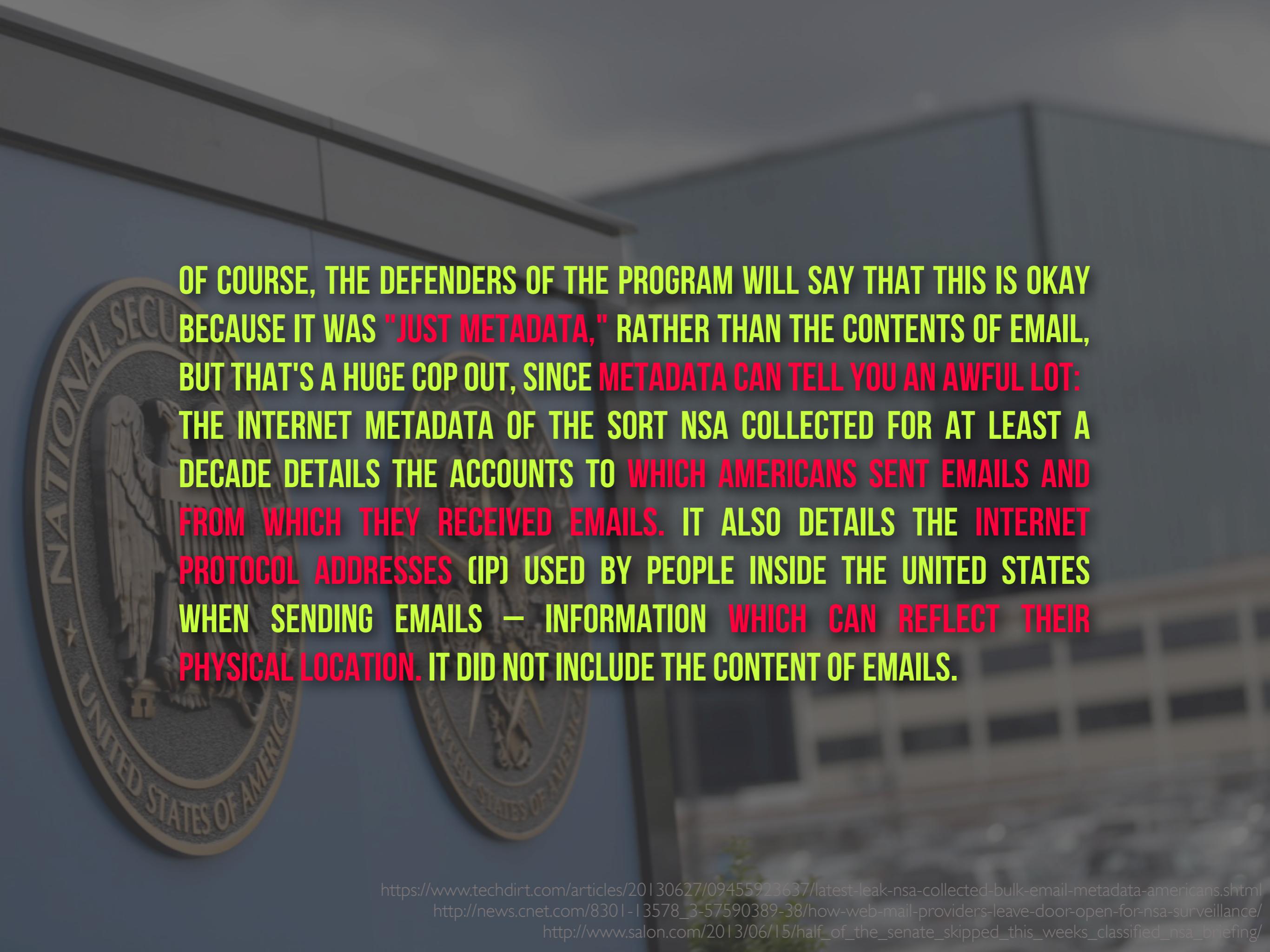


THE NSA LEAKS JUST KEEP ON COMING, AND THE LATEST ONE IS A BIG ONE. IT'S CONCERNING THE NSA IS ABOUT THE STELLAR WIND PROGRAM -- WHICH HAD BEEN REVEALED BEFORE, AND WHICH FORMER NSA WHISTLEBLOWER BILL BINNEY HAS DISCUSSED IN THE PAST -- BUT BINNEY LEFT THE NSA IN 2001. THE LATEST DOCUMENT IS A REPORT FROM THE INSPECTOR GENERAL THAT CONFIRMS SOME OF THE CLAIMS BINNEY HAS MADE IN THE PAST, SHOWING THAT THE NSA COLLECTED "BULK METADATA" ON EMAILS OF US PERSONS. THE PROGRAM STARTED AS ONLY BEING ABOUT NON-US PERSONS, BUT WAS LATER EXPANDED BY THE DOJ IN 2007 TO COVER US PERSONS AS WELL.



EVENTUALLY, THE NSA GAINED AUTHORITY TO "ANALYZE COMMUNICATIONS METADATA ASSOCIATED WITH UNITED STATES PERSONS AND PERSONS BELIEVED TO BE IN THE UNITED STATES", ACCORDING TO A 2007 JUSTICE DEPARTMENT MEMO, WHICH IS MARKED SECRET.

SO, REMEMBER ALL THAT STUFF THE NSA AND THE PRESIDENT AND VARIOUS ELECTED OFFICIALS WERE SAYING ABOUT HOW THEY'RE NOT COLLECTING INTERNET DATA ON AMERICANS? AND HOW THEY HAVE MINIMIZATION PROCEDURES AND ALL OF THAT?

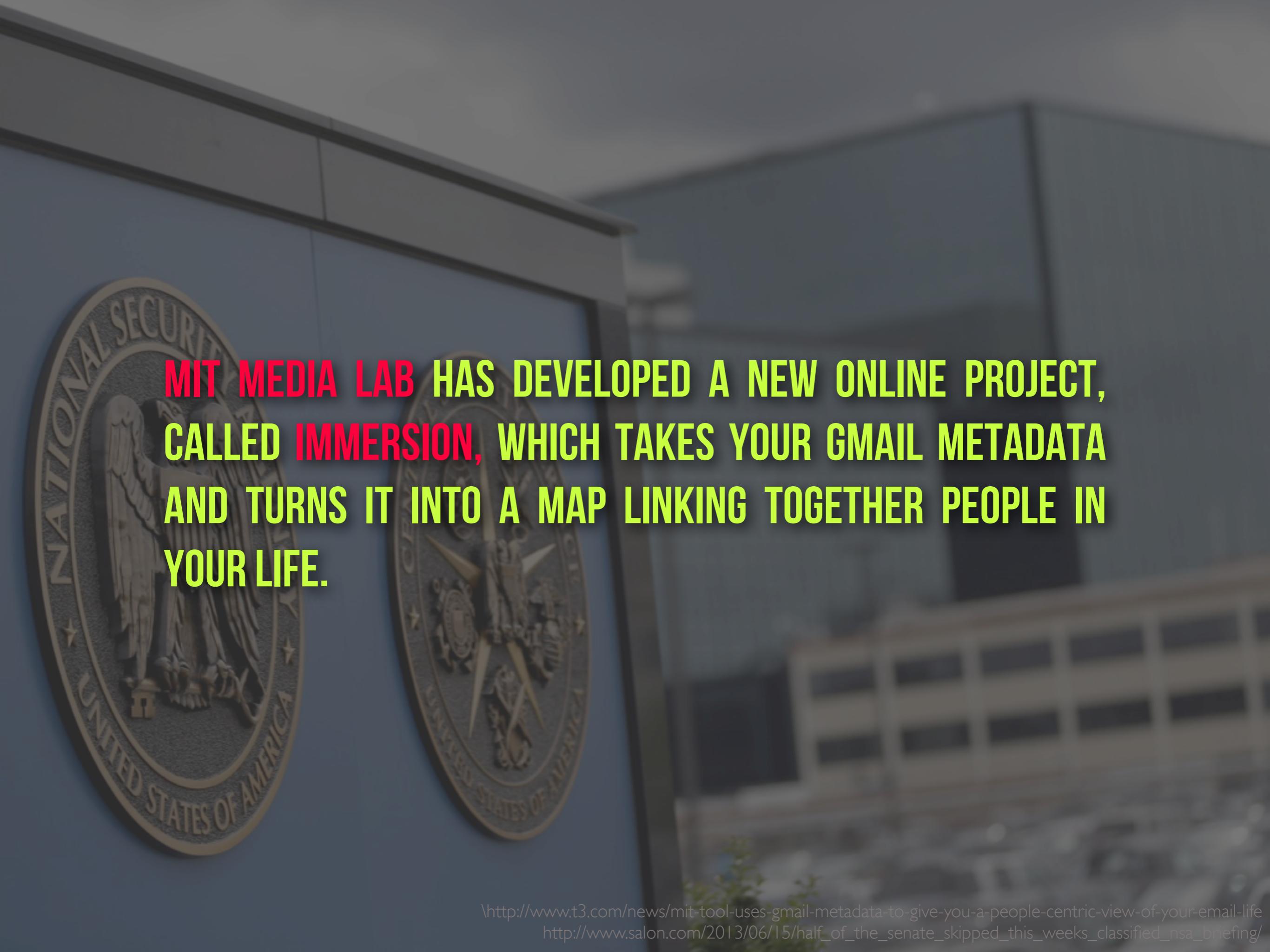


OF COURSE, THE DEFENDERS OF THE PROGRAM WILL SAY THAT THIS IS OKAY BECAUSE IT WAS "JUST METADATA," RATHER THAN THE CONTENTS OF EMAIL, BUT THAT'S A HUGE COP OUT, SINCE METADATA CAN TELL YOU AN AWFUL LOT: THE INTERNET METADATA OF THE SORT NSA COLLECTED FOR AT LEAST A DECADE DETAILS THE ACCOUNTS TO WHICH AMERICANS SENT EMAILS AND FROM WHICH THEY RECEIVED EMAILS. IT ALSO DETAILS THE INTERNET PROTOCOL ADDRESSES (IP) USED BY PEOPLE INSIDE THE UNITED STATES WHEN SENDING EMAILS — INFORMATION WHICH CAN REFLECT THEIR PHYSICAL LOCATION. IT DID NOT INCLUDE THE CONTENT OF EMAILS.

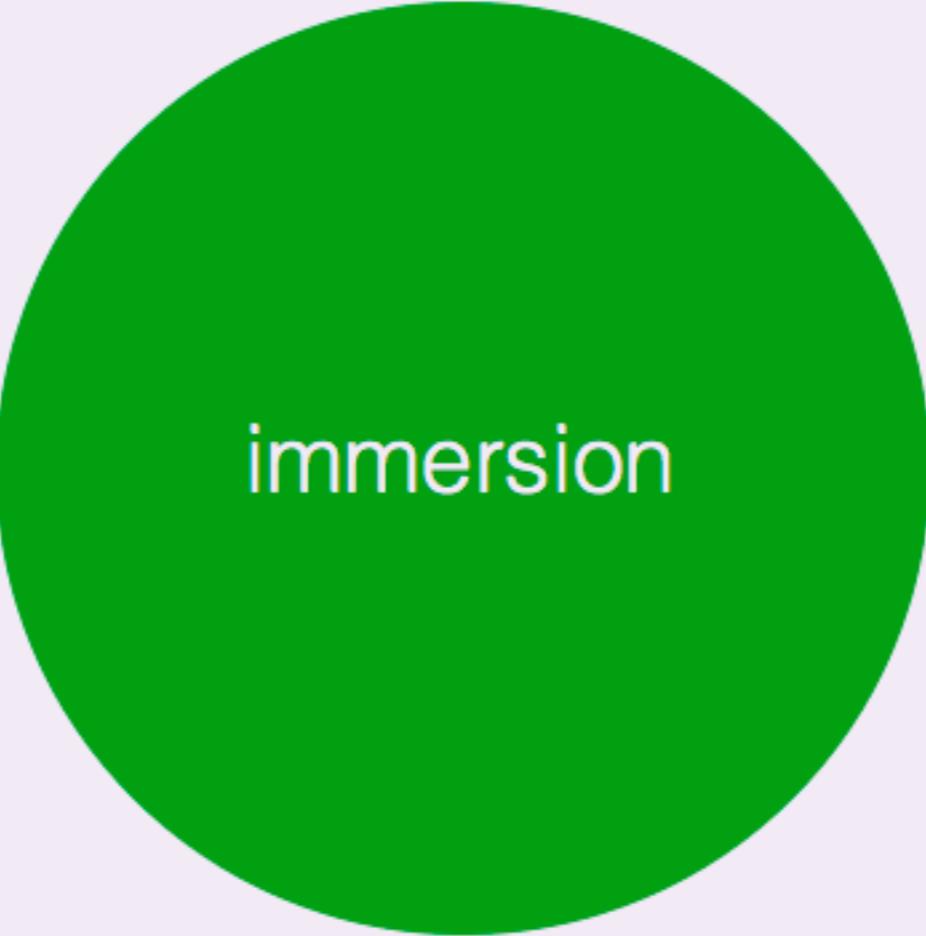
<https://www.techdirt.com/articles/20130627/09455923637/latest-leak-nsa-collected-bulk-email-metadata-americans.shtml>

http://news.cnet.com/8301-13578_3-57590389-38/how-web-mail-providers-leave-door-open-for-nsa-surveillance/

http://www.salon.com/2013/06/15/half_of_the_senate_skipped_this_weeks_classified_nsa_briefing/

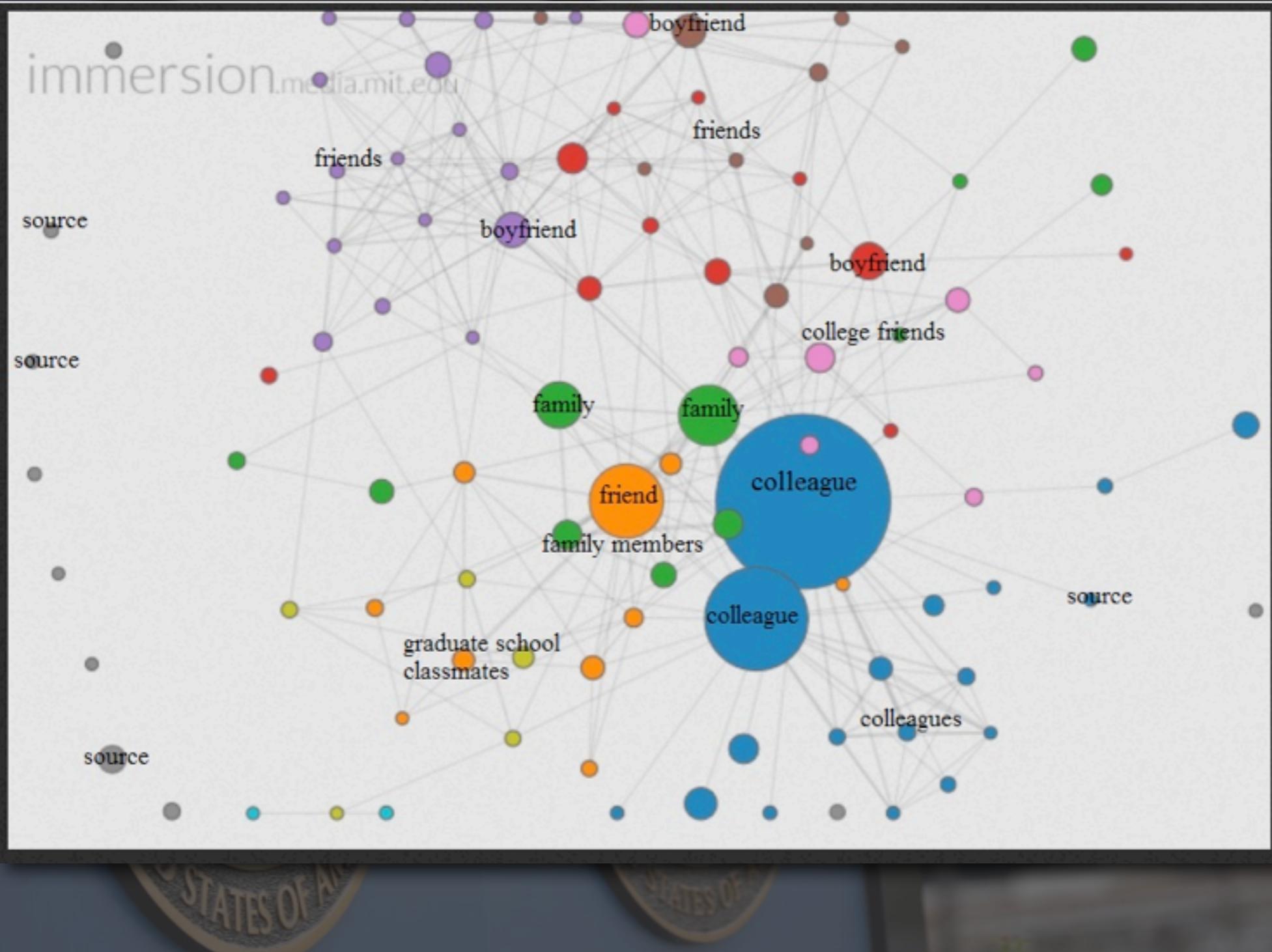


MIT MEDIA LAB HAS DEVELOPED A NEW ONLINE PROJECT, CALLED IMMERSION, WHICH TAKES YOUR GMAIL METADATA AND TURNS IT INTO A MAP LINKING TOGETHER PEOPLE IN YOUR LIFE.



immersion

a people-centric view of your email life
using only your metadata



Kashmir Hill



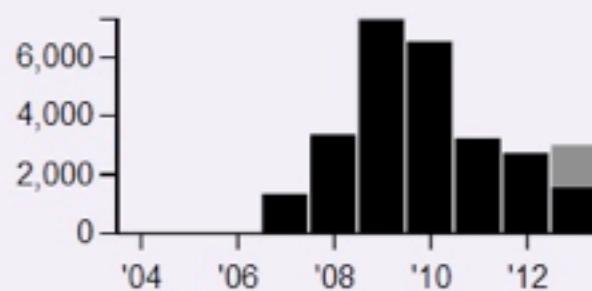
916 collaborators

78,277 emails

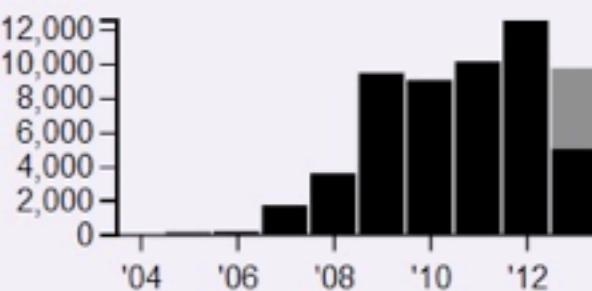
My Stats

[Top Collaborators](#)

Emails Sent



Emails Received

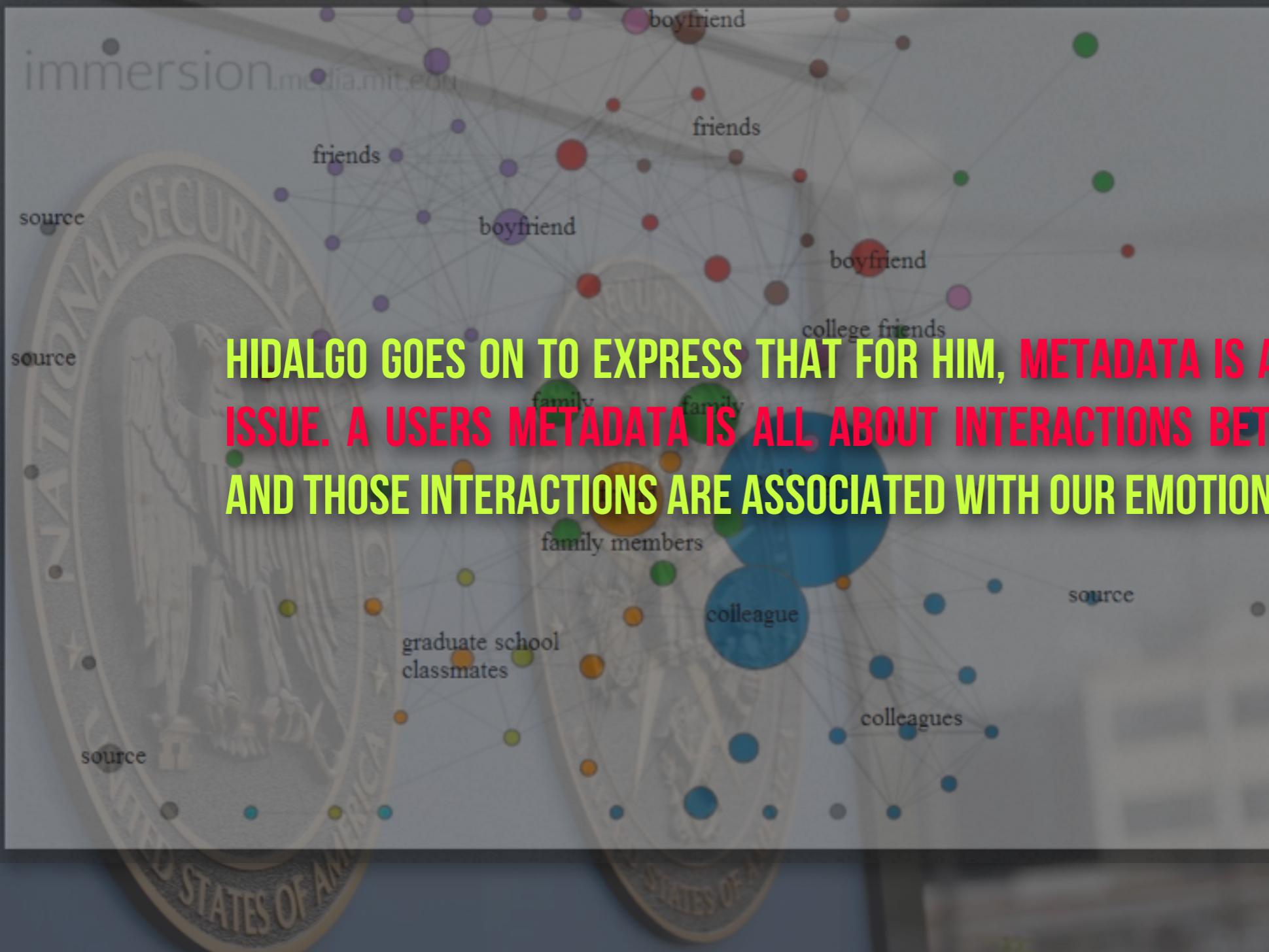


<http://www.forbes.com/sites/kashmirhill/2013/07/10/heres-a-tool-to-see-what-your-email-metadata-reveals-about-you/>

<http://www.t3.com/news/gmail-tool-uses-gmail-metadata-to-give-you-a-people-centric-view-of-your-email-life>

http://www.salon.com/2013/06/15/half_of_the_senate_skipped_this_weeks_classified_nsa_briefing

HIDALGO GOES ON TO EXPRESS THAT FOR HIM, METADATA IS AN EMOTIONAL ISSUE. A USERS METADATA IS ALL ABOUT INTERACTIONS BETWEEN PEOPLE AND THOSE INTERACTIONS ARE ASSOCIATED WITH OUR EMOTIONS.



Kashmir Hill



916 collaborators

78,277 emails

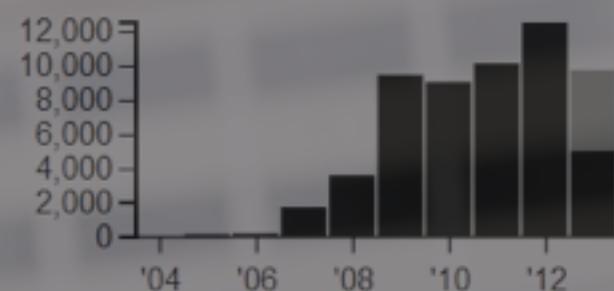
[My Stats](#)

[Top Collaborators](#)

Emails Sent



Emails Received



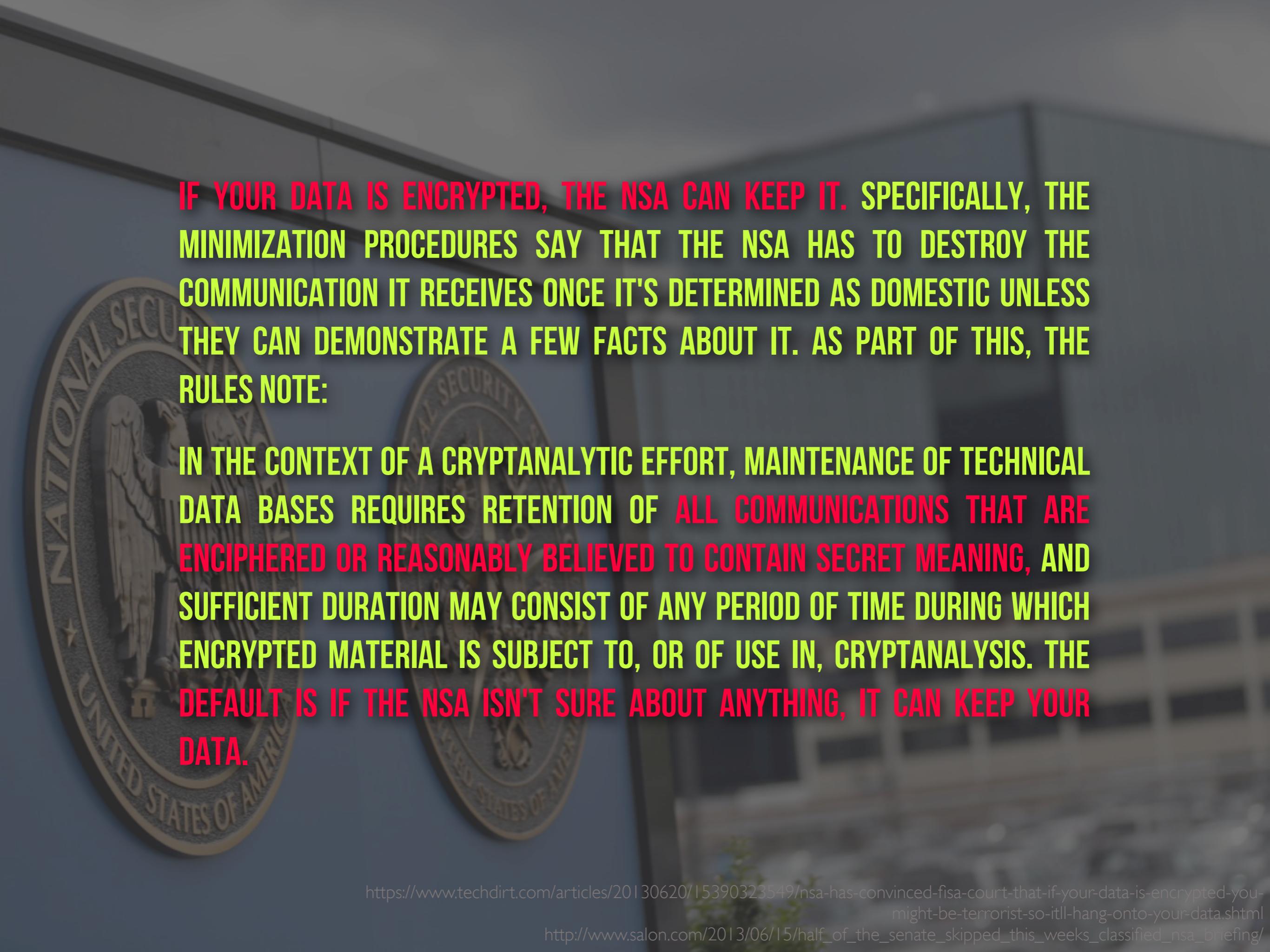
<http://www.forbes.com/sites/kashmirhill/2013/07/10/heres-a-tool-to-see-what-your-email-metadata-reveals-about-you/>

<http://www.t3.com/news/gmail-tool-uses-gmail-metadata-to-give-you-a-people-centric-view-of-your-email-life>

http://www.salon.com/2013/06/15/half_of_the_senate_skipped_this_weeks_classified_nsa_briefing

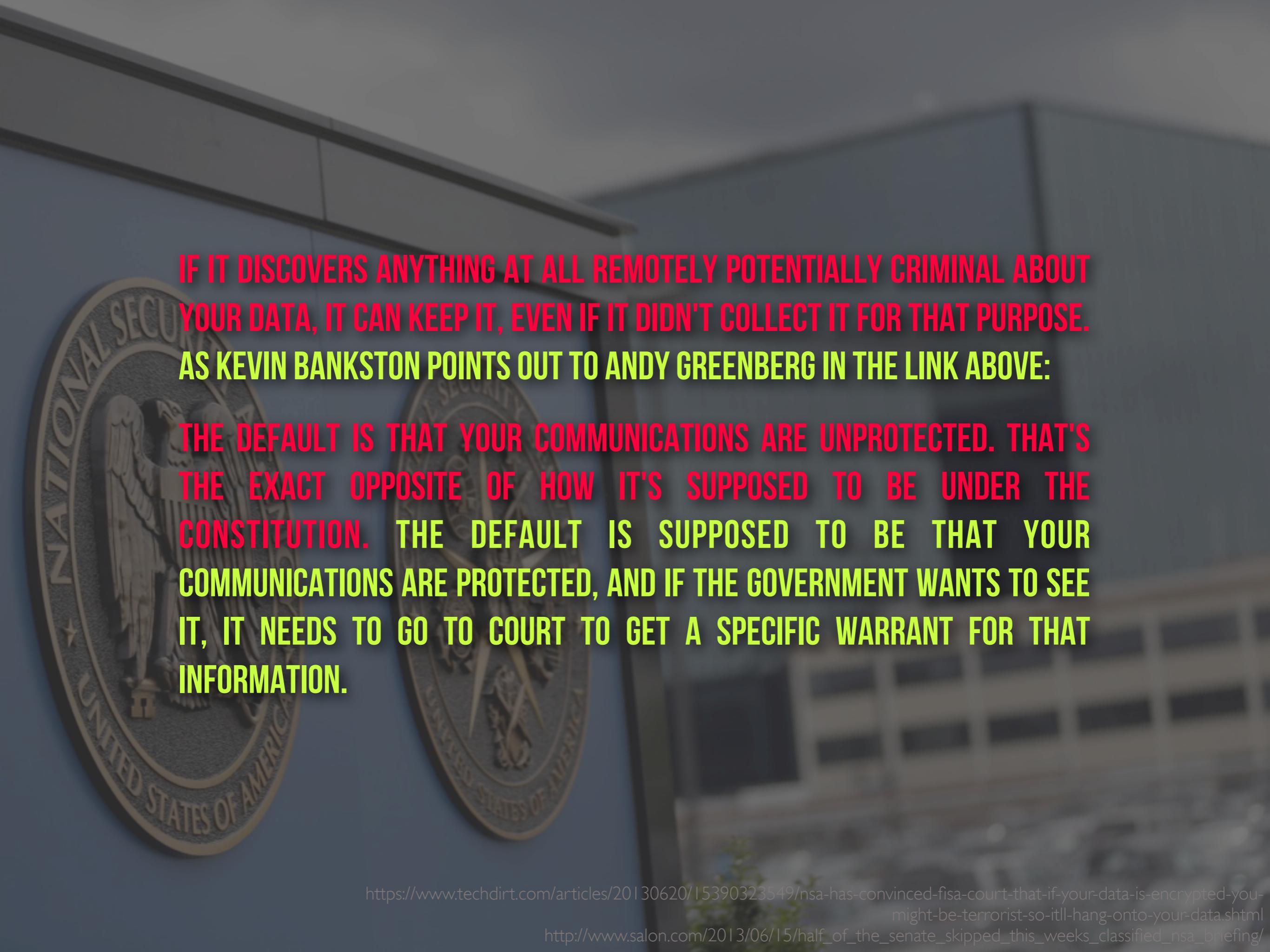


**IF YOUR DATA IS ENCRYPTED, YOU MIGHT BE EVIL, SO WE'LL
KEEP IT UNTIL WE'RE SURE FROM THE SAY-WHAT-NOW? DEPT**



IF YOUR DATA IS ENCRYPTED, THE NSA CAN KEEP IT. SPECIFICALLY, THE MINIMIZATION PROCEDURES SAY THAT THE NSA HAS TO DESTROY THE COMMUNICATION IT RECEIVES ONCE IT'S DETERMINED AS DOMESTIC UNLESS THEY CAN DEMONSTRATE A FEW FACTS ABOUT IT. AS PART OF THIS, THE RULES NOTE:

IN THE CONTEXT OF A CRYPTANALYTIC EFFORT, MAINTENANCE OF TECHNICAL DATA BASES REQUIRES RETENTION OF ALL COMMUNICATIONS THAT ARE ENCIPHERED OR REASONABLY BELIEVED TO CONTAIN SECRET MEANING, AND SUFFICIENT DURATION MAY CONSIST OF ANY PERIOD OF TIME DURING WHICH ENCRYPTED MATERIAL IS SUBJECT TO, OR OF USE IN, CRYPTANALYSIS. THE DEFAULT IS IF THE NSA ISN'T SURE ABOUT ANYTHING, IT CAN KEEP YOUR DATA.



IF IT DISCOVERS ANYTHING AT ALL REMOTELY POTENTIALLY CRIMINAL ABOUT YOUR DATA, IT CAN KEEP IT, EVEN IF IT DIDN'T COLLECT IT FOR THAT PURPOSE. AS KEVIN BANKSTON POINTS OUT TO ANDY GREENBERG IN THE LINK ABOVE:

THE DEFAULT IS THAT YOUR COMMUNICATIONS ARE UNPROTECTED. THAT'S THE EXACT OPPOSITE OF HOW IT'S SUPPOSED TO BE UNDER THE CONSTITUTION. THE DEFAULT IS SUPPOSED TO BE THAT YOUR COMMUNICATIONS ARE PROTECTED, AND IF THE GOVERNMENT WANTS TO SEE IT, IT NEEDS TO GO TO COURT TO GET A SPECIFIC WARRANT FOR THAT INFORMATION.



Celebrating 60 Years of Defending Our Nation, Securing The Future

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SENS. RON WYDEN (D-OR) AND MARK UDALL (D-CO) WANT THE AMERICAN PUBLIC TO KNOW THAT THE NSA HAS BEEN LYING TO THEM ABOUT THEIR PROTECTIONS UNDER THE PATRIOT ACT, AND THEY WANT THE NSA TO KNOW THAT WE ALL KNOW THEY'RE LYING. THE SENATORS SENT A LETTER TO NSA ASKING THEM TO CORRECT THE PUBLIC INFORMATION USED IN TALKING POINTS AND ON A FACT SHEET THAT TALKS ABOUT HOW YOUR PRIVACY IS BEING PROTECTED, SPECIFICALLY UNDER SEC. 702—THAT'S THE PART RELEVANT TO THE PRISM INTERNET SURVEILLANCE PROGRAM.

- Click the [Back](#) button to try another link.



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- Open the www.nsa.gov home page, and then look for links to the information you are seeking.
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[THE NSA] JUST TOOK DOWN THE WHOLE PUBLIC PAGE. WHICH WAS SORT OF POINTLESS, BECAUSE THERE ARE ARCHIVES OF IT. WE DON'T KNOW WHAT ON THAT PAGE WYDEN AND UDALL THINK IS MISLEADING. THAT'S BECAUSE THAT PART HAS TO REMAIN CLASSIFIED, AND THE SENATORS COULDN'T REVEAL THAT IN THE PART OF THE LETTER THEY MADE PUBLIC. SO THESE SENATORS WHO KNOW AS MUCH ABOUT THE NSA PROGRAMS AS ANYONE SAY THAT WE'RE NOT NEARLY AS PROTECTED AS THE GOVERNMENT IS TELLING US, BUT THEY CAN'T TELL US HOW. SO THE NSA WIPES OUT EVERYTHING. PROBLEM SOLVED.

- Click the [Back](#) button to try another link.

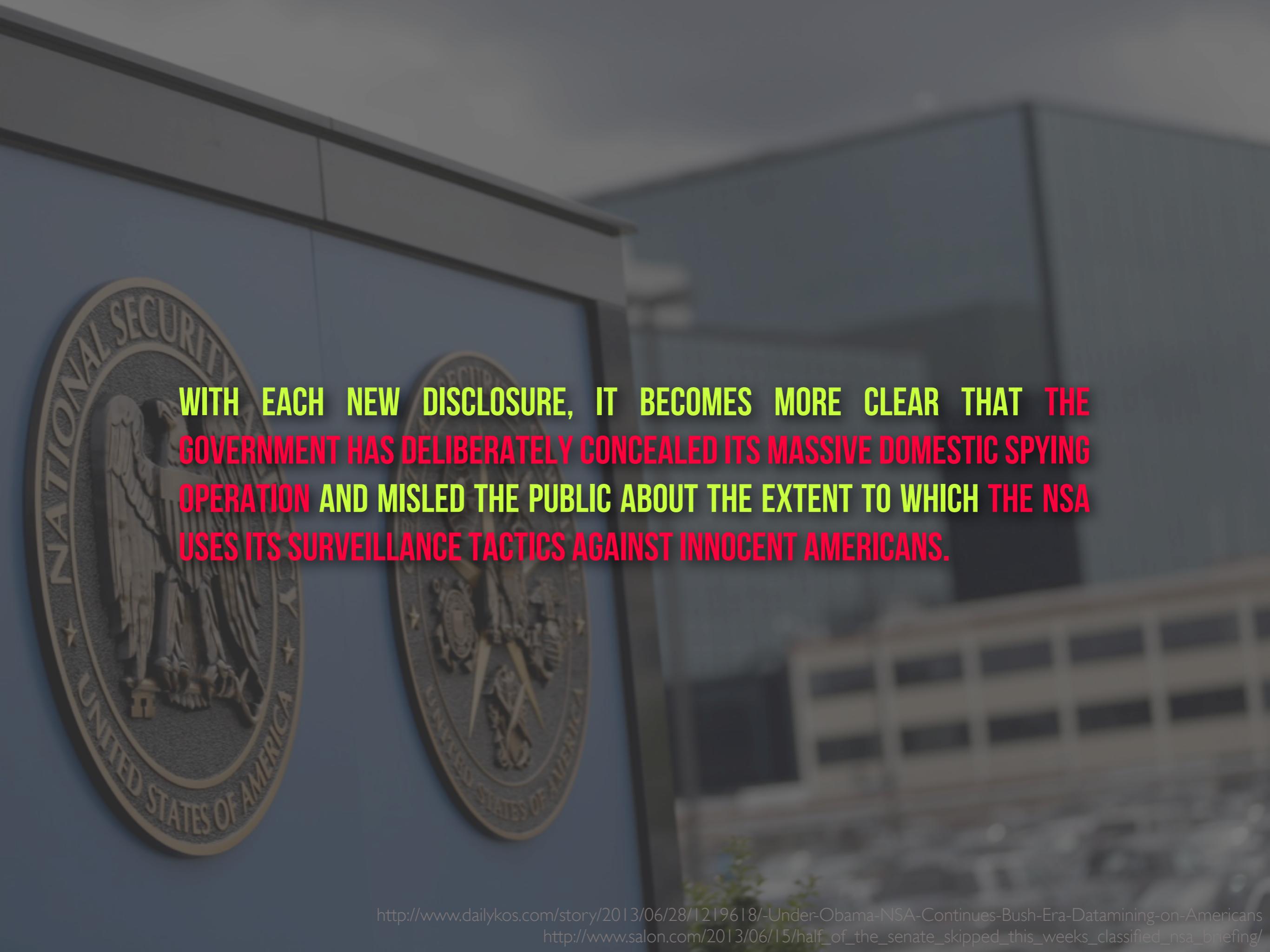


Section 702

Title VII, Section 702 of the Foreign Intelligence Surveillance Act (FISA), "Procedures for Targeting Certain Persons Outside the United States Other Than United States Persons" (50 U.S.C. sec. 1881a)

- This authority allows only the targeting, for foreign intelligence purposes, of communications of foreign persons who are located abroad.
- The government may not target any U.S. person anywhere in the world under this authority, nor may it target a person outside of the U.S. if the purpose is to acquire information from a particular, known person inside the U.S.
- Under this authority, the Foreign Intelligence Surveillance Court annually reviews "certifications" jointly submitted by the U.S. Attorney General and Director of National Intelligence.
- These certifications define the categories of foreign actors that may be appropriately targeted, and by law, must include specific targeting and minimization procedures adopted by the Attorney General in consultation with the Director of National Intelligence and approved by the Court as consistent with the law and 4th Amendment to the Constitution.
- There must be a valid, documented foreign intelligence purpose, such as counterterrorism, for each use of this authority. All targeting decisions must be documented in advance.
- The Department of Justice and the Office of the Director of National Intelligence conduct on-site reviews of targeting, minimization, and dissemination decisions at least every 60 days.

<http://web.archive.org/web/20130625004125/http://www.nsa.gov/public...>



WITH EACH NEW DISCLOSURE, IT BECOMES MORE CLEAR THAT THE GOVERNMENT HAS DELIBERATELY CONCEALED ITS MASSIVE DOMESTIC SPYING OPERATION AND MISLED THE PUBLIC ABOUT THE EXTENT TO WHICH THE NSA USES ITS SURVEILLANCE TACTICS AGAINST INNOCENT AMERICANS.



IT IS THANKS TO WHISTLEBLOWERS LIKE THOMAS DRAKE, WILLIAM BINNEY, KIRK WIEBE, AND SNOWDEN THAT THE PUBLIC CAN NOW HAVE A MORE OPEN DEBATE ABOUT THE WISDOM AND EFFICACY OF THESE SPYING POWERS AND THAT THE COURTS AND CONGRESS ARE AFFORDED AN OPPORTUNITY TO ENGAGE IN MORE AGGRESSIVE AND BADLY NEEDED OVERSIGHT.

This story is part of
NSA PHONE TRACKING

Protection for Snowden
Russia's latest affront to U.S.

Snowden remains stuck at
Moscow airport

Putin warns Snowden not to
hurt U.S.-Russian relations

3 NSA veterans speak out on whistle-blower: We told you so



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2988



113



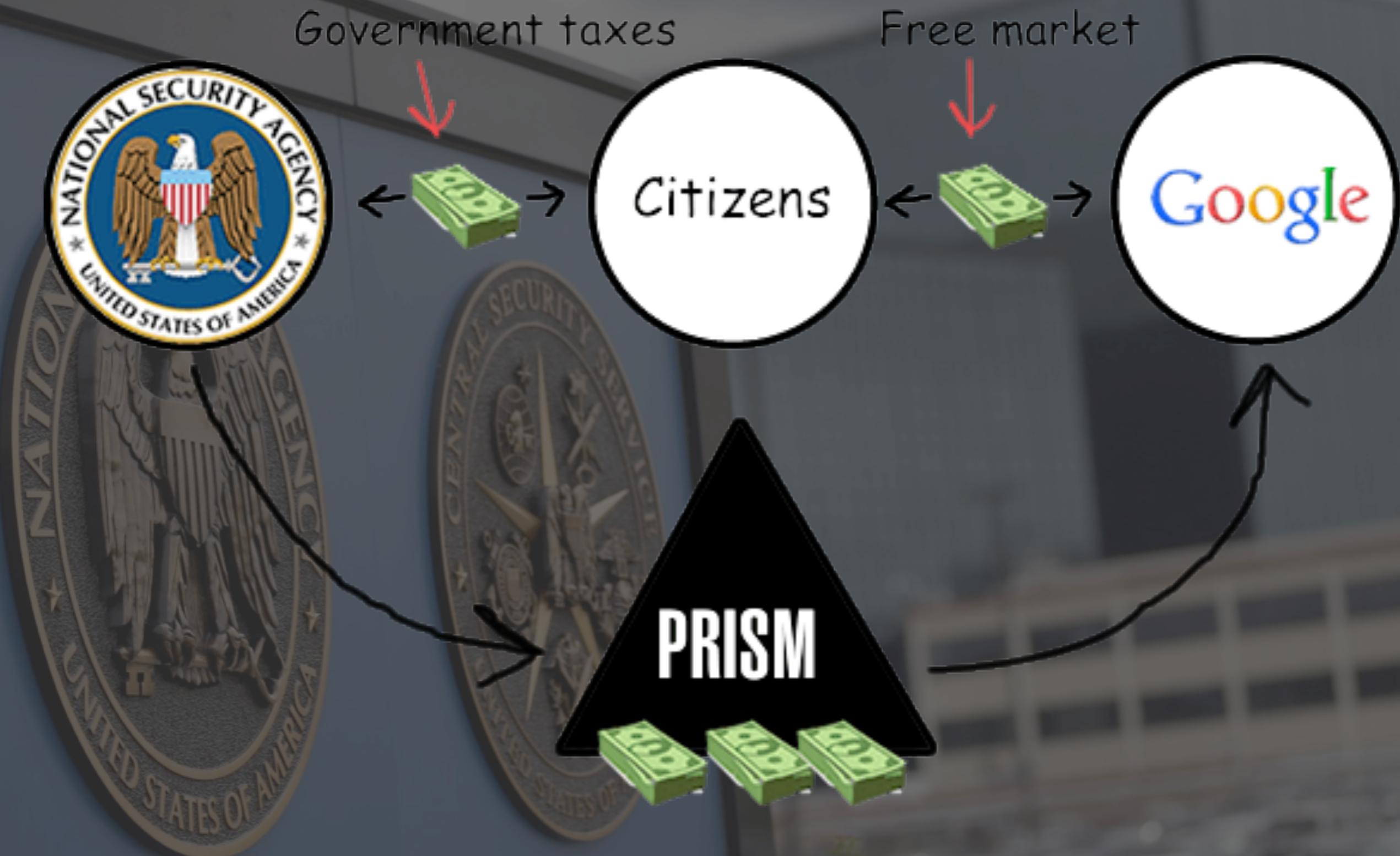
Three former NSA whistle-blowers discuss the Edward Snowden case with USA TODAY reporters Susan Page and Peter Eisler.

THAT THE COURTS AND CONGRESS ARE AFFORDED AN OPPORTUNITY TO
ENGAGE IN MORE AGGRESSIVE AND BADLY NEEDED OVERSIGHT.

<http://www.usatoday.com/story/news/politics/2013/06/16/snowden-whistleblower-nsa-officials-roundtable/2428809/>

<http://www.dailykos.com/story/2013/06/28/1219618/-Under-Obama-NSA-Continues-Bush-Era-Datamining-on-Americans>

http://www.salon.com/2013/06/15/half_of_the_senate_skipped_this_weeks_classified_nsa_briefing/





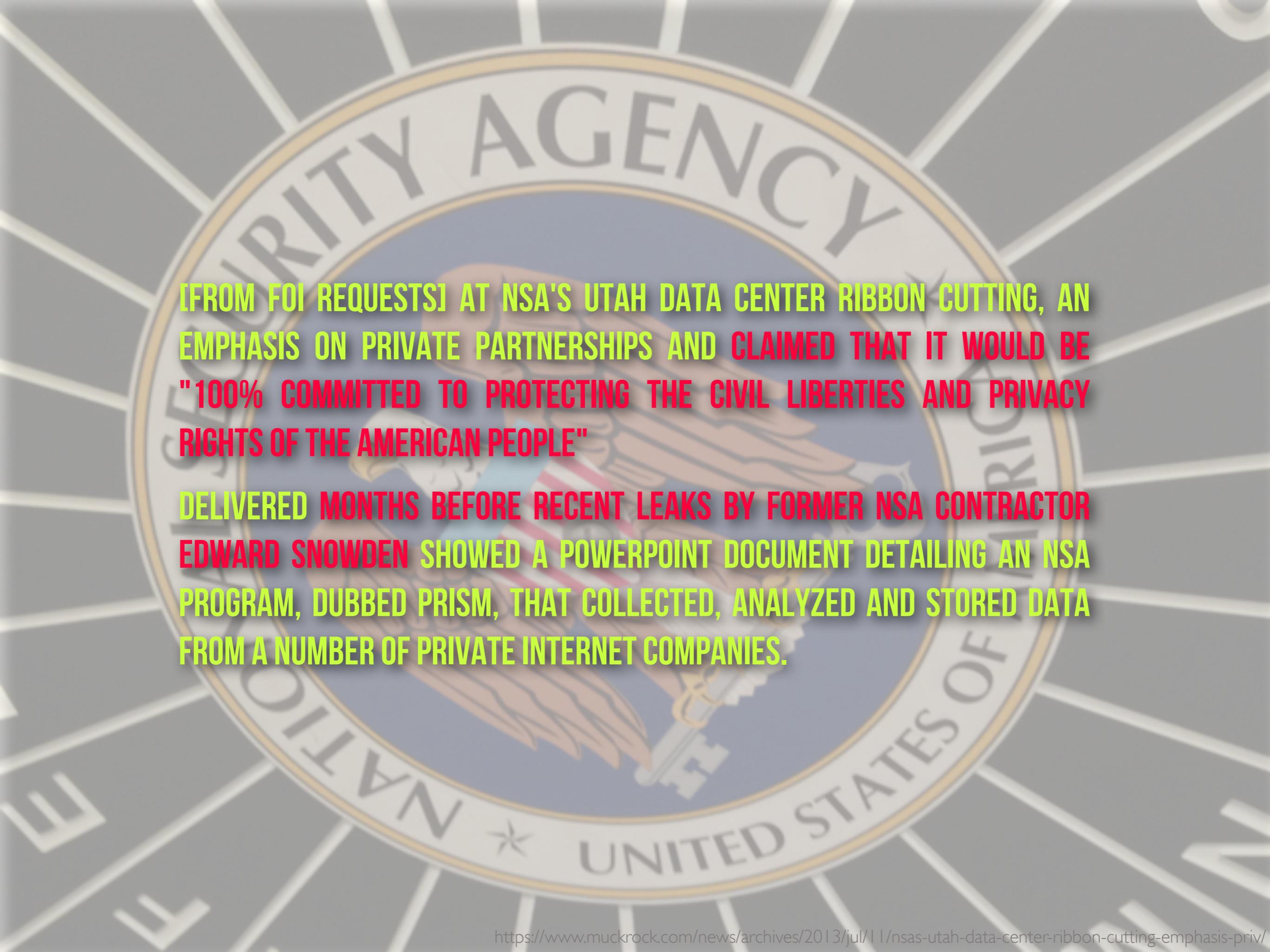
THE NSA'S UTAH DATACENTER



NATIONAL SECURITY AGENCY
UNITED STATES OF AMERICA



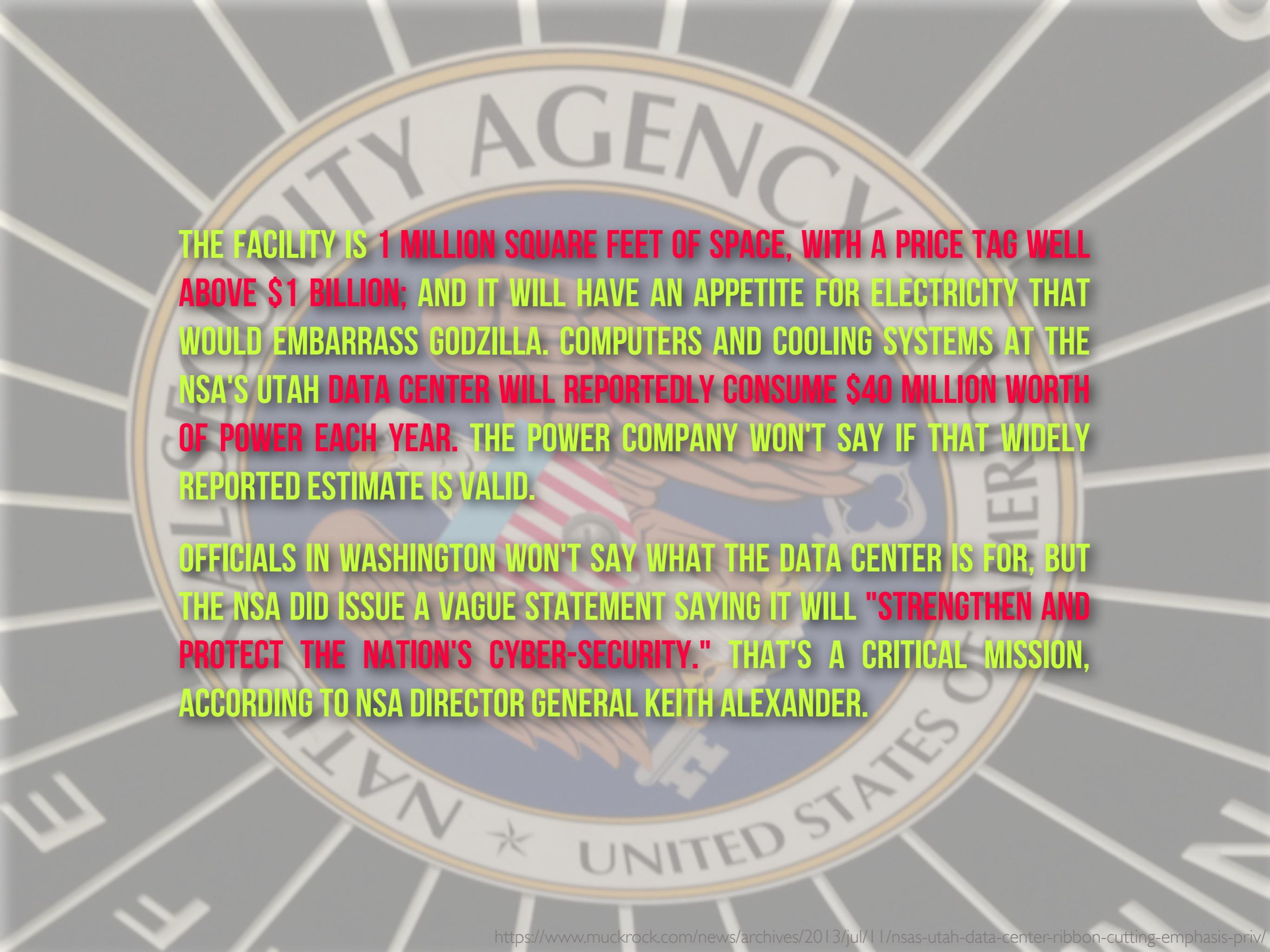




[FROM FOI REQUESTS] AT NSA'S UTAH DATA CENTER RIBBON CUTTING, AN EMPHASIS ON PRIVATE PARTNERSHIPS AND CLAIMED THAT IT WOULD BE "100% COMMITTED TO PROTECTING THE CIVIL LIBERTIES AND PRIVACY RIGHTS OF THE AMERICAN PEOPLE"

DELIVERED MONTHS BEFORE RECENT LEAKS BY FORMER NSA CONTRACTOR EDWARD SNOWDEN SHOWED A POWERPOINT DOCUMENT DETAILING AN NSA PROGRAM, DUBBED PRISM, THAT COLLECTED, ANALYZED AND STORED DATA FROM A NUMBER OF PRIVATE INTERNET COMPANIES.

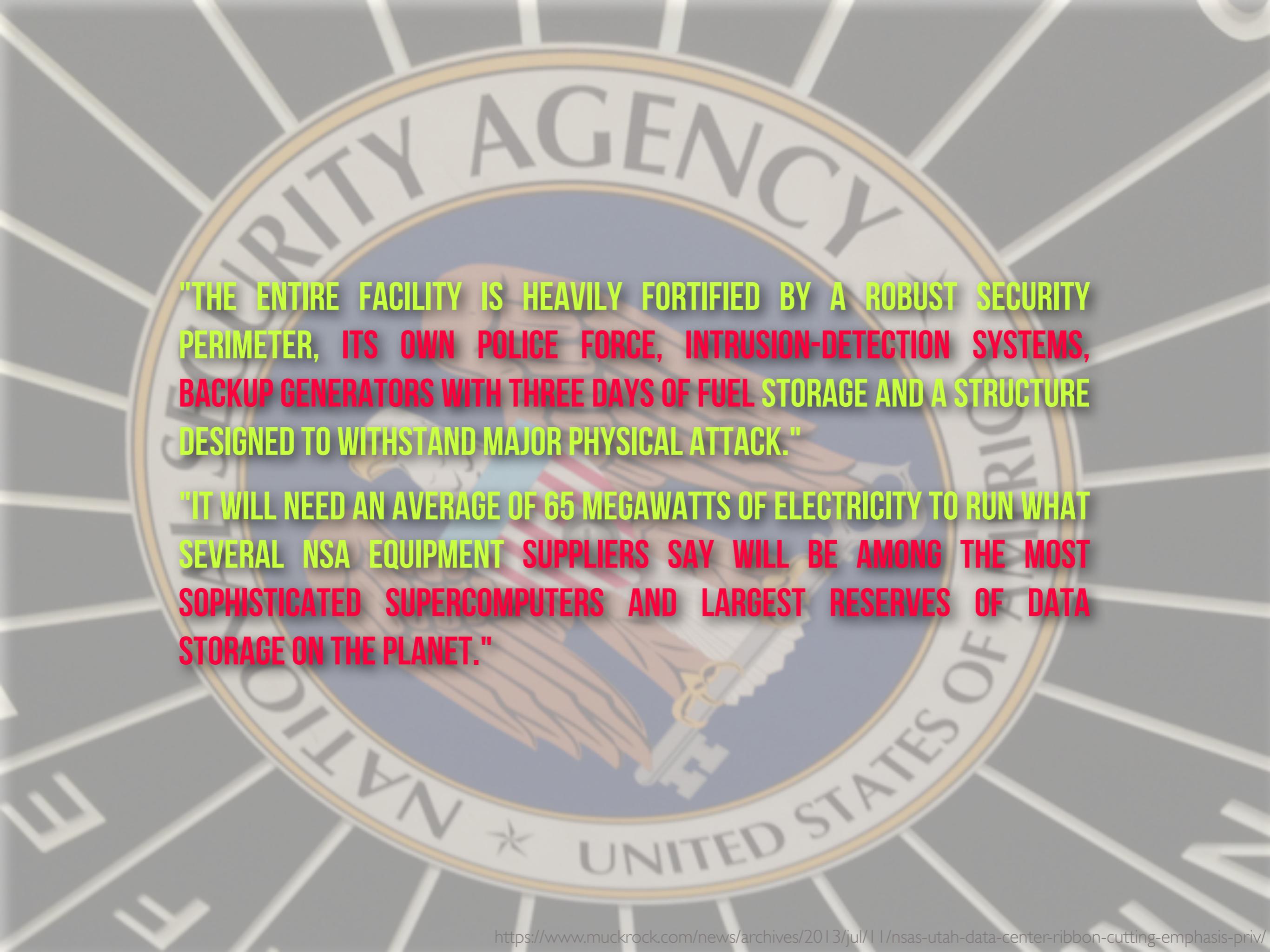




THE FACILITY IS 1 MILLION SQUARE FEET OF SPACE, WITH A PRICE TAG WELL ABOVE \$1 BILLION; AND IT WILL HAVE AN APPETITE FOR ELECTRICITY THAT WOULD EMBARRASS GODZILLA. COMPUTERS AND COOLING SYSTEMS AT THE NSA'S UTAH DATA CENTER WILL REPORTEDLY CONSUME \$40 MILLION WORTH OF POWER EACH YEAR. THE POWER COMPANY WON'T SAY IF THAT WIDELY REPORTED ESTIMATE IS VALID.

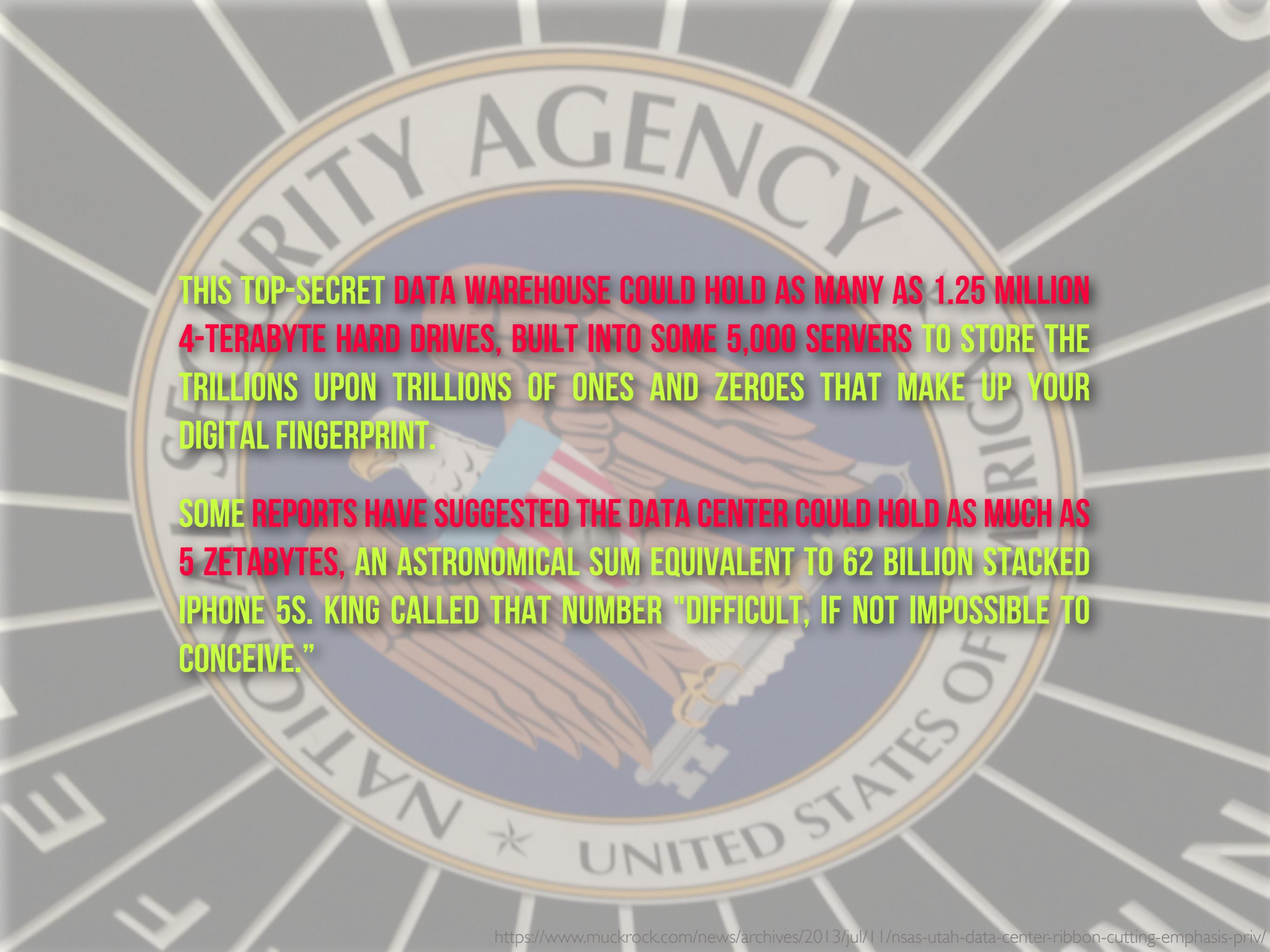
OFFICIALS IN WASHINGTON WON'T SAY WHAT THE DATA CENTER IS FOR, BUT THE NSA DID ISSUE A VAGUE STATEMENT SAYING IT WILL "STRENGTHEN AND PROTECT THE NATION'S CYBER-SECURITY." THAT'S A CRITICAL MISSION, ACCORDING TO NSA DIRECTOR GENERAL KEITH ALEXANDER.





"THE ENTIRE FACILITY IS HEAVILY FORTIFIED BY A ROBUST SECURITY PERIMETER, ITS OWN POLICE FORCE, INTRUSION-DETECTION SYSTEMS, BACKUP GENERATORS WITH THREE DAYS OF FUEL STORAGE AND A STRUCTURE DESIGNED TO WITHSTAND MAJOR PHYSICAL ATTACK."

"IT WILL NEED AN AVERAGE OF 65 MEGAWATTS OF ELECTRICITY TO RUN WHAT SEVERAL NSA EQUIPMENT SUPPLIERS SAY WILL BE AMONG THE MOST SOPHISTICATED SUPERCOMPUTERS AND LARGEST RESERVES OF DATA STORAGE ON THE PLANET."



THIS TOP-SECRET DATA WAREHOUSE COULD HOLD AS MANY AS 1.25 MILLION 4-TERABYTE HARD DRIVES, BUILT INTO SOME 5,000 SERVERS TO STORE THE TRILLIONS UPON TRILLIONS OF ONES AND ZEROES THAT MAKE UP YOUR DIGITAL FINGERPRINT.

SOME REPORTS HAVE SUGGESTED THE DATA CENTER COULD HOLD AS MUCH AS 5 ZETABYTES, AN ASTRONOMICAL SUM EQUIVALENT TO 62 BILLION STACKED IPHONE 5S. KING CALLED THAT NUMBER "DIFFICULT, IF NOT IMPOSSIBLE TO CONCEIVE."

5 Zettabytes (ZB)

=

5,000,000,000,000

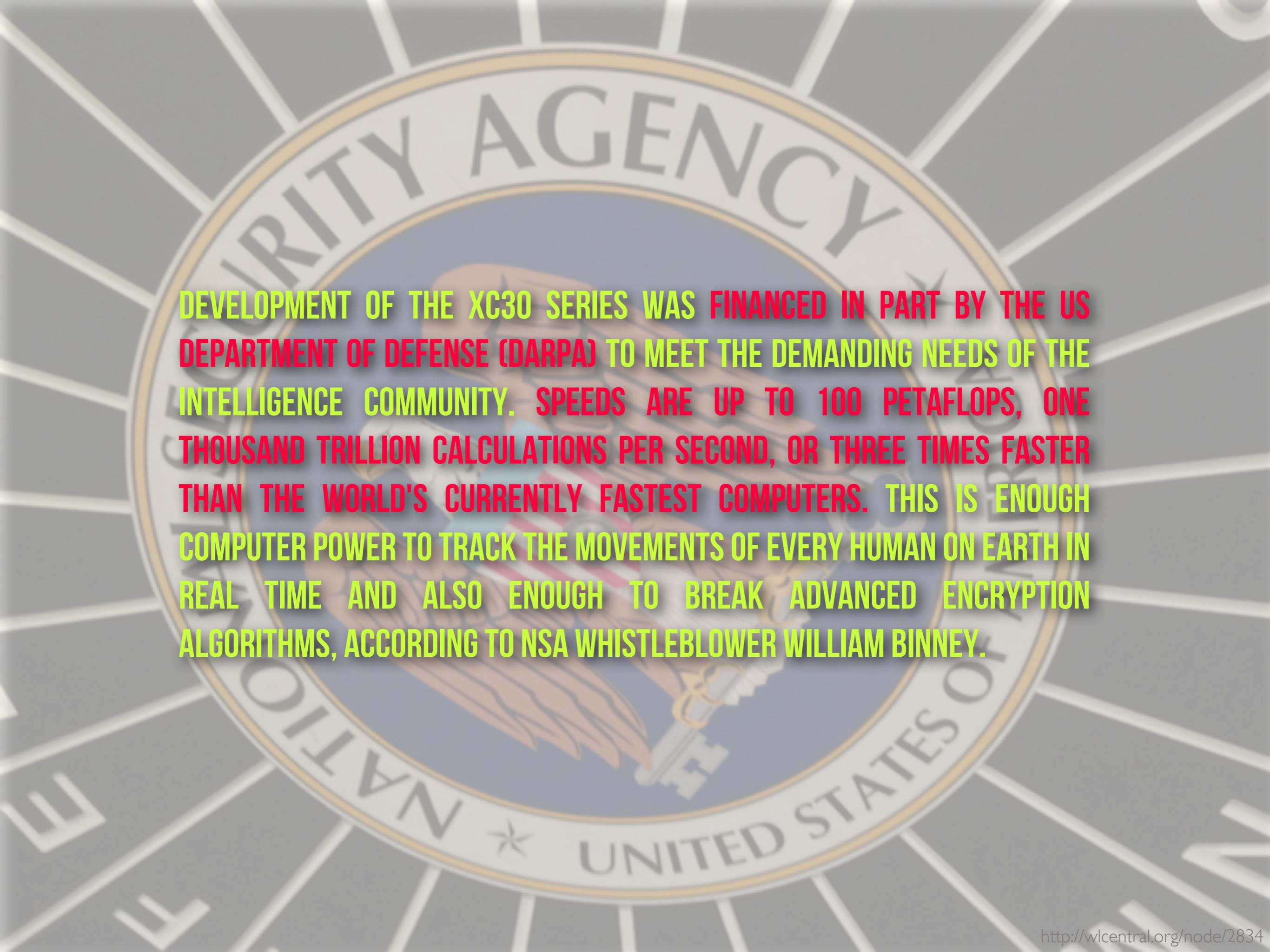
Gigabytes (GB)

CRAY XC30

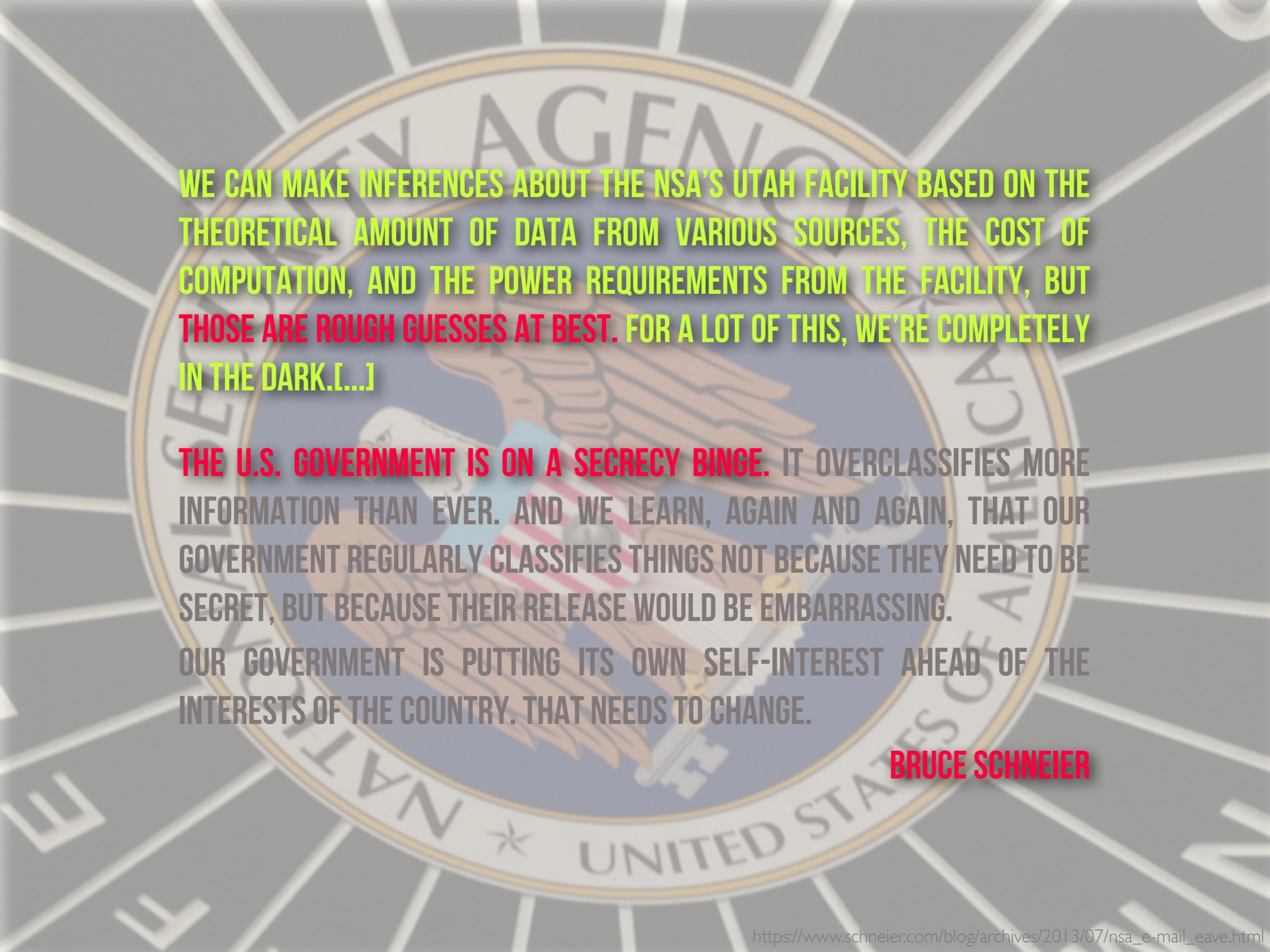
Scaling Across the Supercomputer Performance Spectrum

The Cray® XC30™ supercomputer series is the culmination of a powerful industry collaboration and cutting edge HPC research and development. Unlike clusters and "assembled" HPC systems of mixed components requiring user integration, the Cray XC30 series has been specifically designed from the ground up with a holistic approach to optimize the entire system to deliver sustained real-world performance and scalability across all hardware and software. Furthermore, the Cray XC30 series leverages the combined advantages of next-generation Aries™ interconnect and Dragonfly network topology, Intel® Xeon® processors, integrated storage solutions, and major enhancements to the Cray OS and programming environment. The Cray® XC30™ supercomputer is a ground breaking architecture upgradeable to 100 Petaflops per system.





DEVELOPMENT OF THE XC30 SERIES WAS FINANCED IN PART BY THE US DEPARTMENT OF DEFENSE (DARPA) TO MEET THE DEMANDING NEEDS OF THE INTELLIGENCE COMMUNITY. SPEEDS ARE UP TO 100 PETAFLOPS, ONE THOUSAND TRILLION CALCULATIONS PER SECOND, OR THREE TIMES FASTER THAN THE WORLD'S CURRENTLY FASTEST COMPUTERS. THIS IS ENOUGH COMPUTER POWER TO TRACK THE MOVEMENTS OF EVERY HUMAN ON EARTH IN REAL TIME AND ALSO ENOUGH TO BREAK ADVANCED ENCRYPTION ALGORITHMS, ACCORDING TO NSA WHISTLEBLOWER WILLIAM BINNEY.

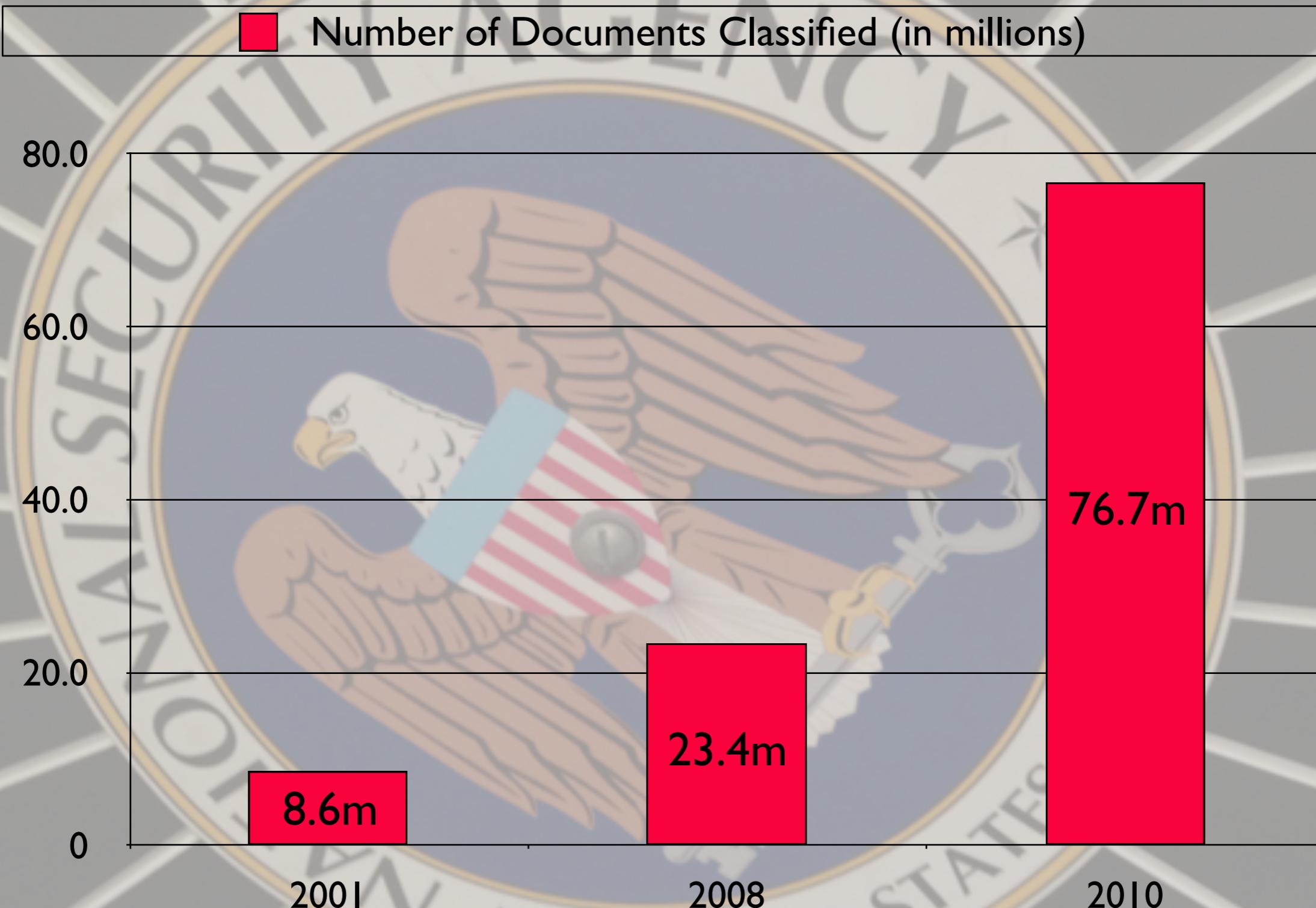


WE CAN MAKE INFERENCES ABOUT THE NSA'S UTAH FACILITY BASED ON THE THEORETICAL AMOUNT OF DATA FROM VARIOUS SOURCES, THE COST OF COMPUTATION, AND THE POWER REQUIREMENTS FROM THE FACILITY, BUT THOSE ARE ROUGH GUESSES AT BEST. FOR A LOT OF THIS, WE'RE COMPLETELY IN THE DARK.[...]

THE U.S. GOVERNMENT IS ON A SECRECY BINGE. IT OVERCLASSIFIES MORE INFORMATION THAN EVER. AND WE LEARN, AGAIN AND AGAIN, THAT OUR GOVERNMENT REGULARLY CLASSIFIES THINGS NOT BECAUSE THEY NEED TO BE SECRET, BUT BECAUSE THEIR RELEASE WOULD BE EMBARRASSING.

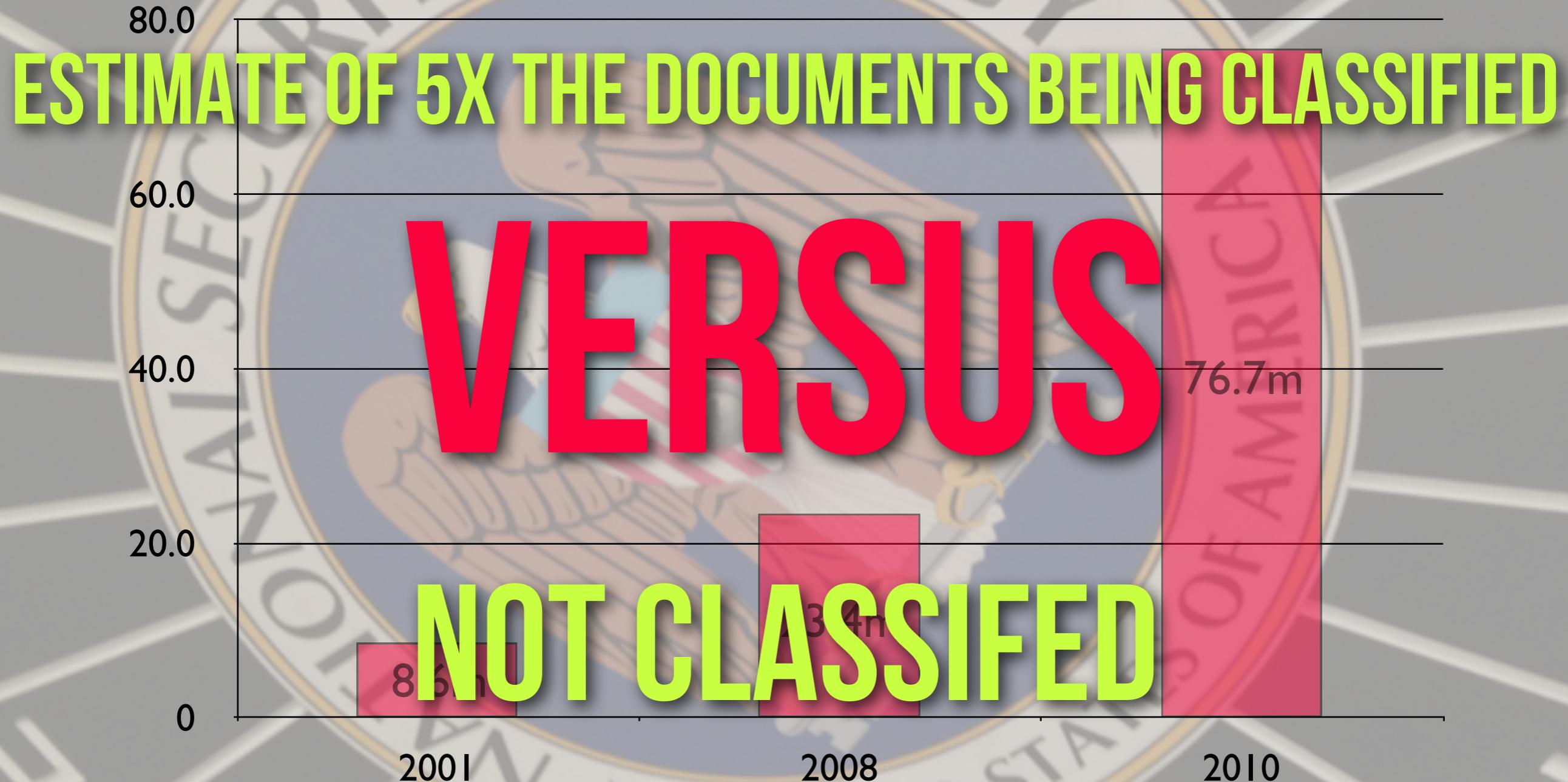
OUR GOVERNMENT IS PUTTING ITS OWN SELF-INTEREST AHEAD OF THE INTERESTS OF THE COUNTRY. THAT NEEDS TO CHANGE.

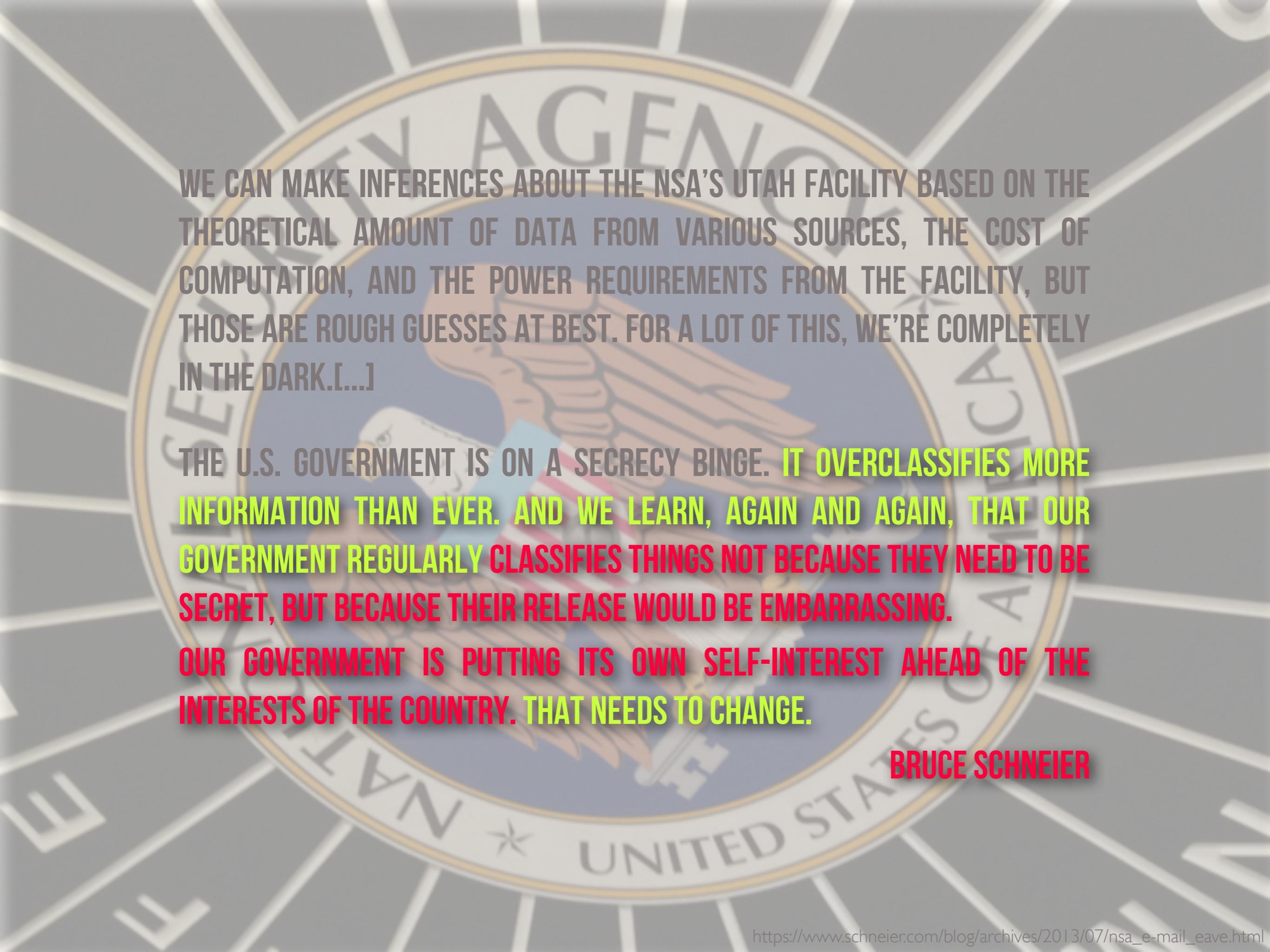
BRUCE SCHNEIER





Number of Documents Classified (in millions)





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OUR GOVERNMENT IS PUTTING ITS OWN SELF-INTEREST AHEAD OF THE INTERESTS OF THE COUNTRY. THAT NEEDS TO CHANGE.

BRUCE SCHNEIER



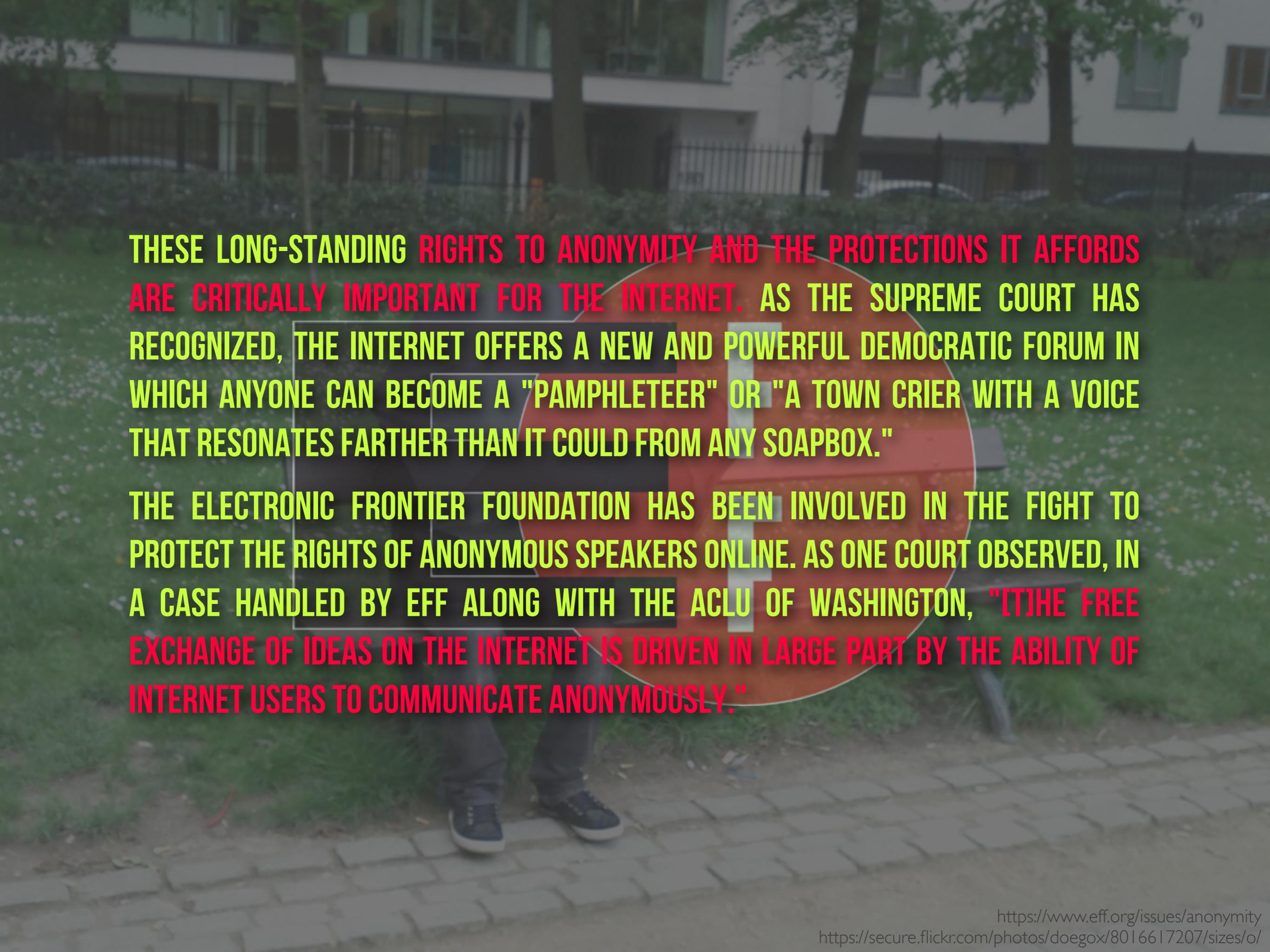
PRIVACY AND ANONYMITY IS A RIGHT











THESE LONG-STANDING RIGHTS TO ANONYMITY AND THE PROTECTIONS IT AFFORDS ARE CRITICALLY IMPORTANT FOR THE INTERNET. AS THE SUPREME COURT HAS RECOGNIZED, THE INTERNET OFFERS A NEW AND POWERFUL DEMOCRATIC FORUM IN WHICH ANYONE CAN BECOME A "PAMPHLETEER" OR "A TOWN CRIER WITH A VOICE THAT RESONATES FARTHER THAN IT COULD FROM ANY SOAPBOX."

THE ELECTRONIC FRONTIER FOUNDATION HAS BEEN INVOLVED IN THE FIGHT TO PROTECT THE RIGHTS OF ANONYMOUS SPEAKERS ONLINE. AS ONE COURT OBSERVED, IN A CASE HANDLED BY EFF ALONG WITH THE ACLU OF WASHINGTON, "[T]HE FREE EXCHANGE OF IDEAS ON THE INTERNET IS DRIVEN IN LARGE PART BY THE ABILITY OF INTERNET USERS TO COMMUNICATE ANONYMOUSLY."



ANONYMOUS COMMUNICATIONS HAVE AN IMPORTANT PLACE IN OUR POLITICAL AND SOCIAL DISCOURSE. THE SUPREME COURT HAS RULED REPEATEDLY THAT THE RIGHT TO ANONYMOUS FREE SPEECH IS PROTECTED BY THE FIRST AMENDMENT. A MUCH-CITED 1995 SUPREME COURT RULING IN MCINTYRE V. OHIO ELECTIONS COMMISSION READS:

PROTECTIONS FOR ANONYMOUS SPEECH ARE VITAL TO DEMOCRATIC DISCOURSE. ALLOWING DISSENTERS TO SHIELD THEIR IDENTITIES FREES THEM TO EXPRESS CRITICAL MINORITY VIEWS . . . ANONYMITY IS A SHIELD FROM THE TYRANNY OF THE MAJORITY. . . . IT THUS EXEMPLIFIES THE PURPOSE BEHIND THE BILL OF RIGHTS AND OF THE FIRST AMENDMENT IN PARTICULAR: TO PROTECT UNPOPULAR INDIVIDUALS FROM RETALIATION . . . AT THE HAND OF AN INTOLERANT SOCIETY.



PROPOSED IDEAS AND TOOLS





Cryptocat lets you chat with privacy.

We're developing an easy to use web app that encrypts your conversations. It's open-source, translated into 32 languages and you already know how to use it.



[Download Cryptocat for Chrome](#)

Warning! Cryptocat is still under development.
Only use it for experimentation! [More information](#)

Encrypted IM can be easy and accessible.

ENCRYPTED CHAT



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SILENT CIRCLE IS A SUITE OF PRODUCTS OFFERING: ENCRYPTED EMAIL, ENCRYPTED VIDEO CHAT, ENCRYPTED PHONE CALLS, ENCRYPTED TEXT MESSAGING

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StartMail - The World's Most Private Email

Welcome to the future home of StartMail, the private email service being developed by [StartPage](#) and [Ixquick](#), the world's most private search engines.

Our engineering team has been working diligently to create the new StartMail email service. We have built everything from the ground up and have incorporated state-of-the-art privacy protections at each step. The hardware is now in place and we are currently performing stringent internal testing to ensure 100% compliance with our high security and quality standards. Watch our overview video here.



"WORLD'S MOST PRIVATE EMAIL"



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THIS MONTH, IN FACT, IXQUICK BEGAN BETA TESTING STARTMAIL, AN EMAIL SERVICE THAT ALBRECHT SAID WILL OFFER A PRIVATE ALTERNATIVE TO DATA-COLLECTING SERVICES SUCH AS GMAIL AND YAHOO. ALBRECHT SAID THE ULTIMATE GOAL FOR IXQUICK IS TO OFFER AN ENTIRE SUITE OF COMPLETELY PRIVATE WEB PRODUCTS. CONVINCING PEOPLE TO USE THEM? THAT'S ANOTHER STORY.

... JARON LANIER ARGUES THAT THAT THE INTERNET'S EVER-GROWING "CULTURE OF FREE" HAS HAD DEVASTATING EFFECTS ON NOT JUST OUR PRIVACY BUT ALSO OUR ECONOMY, DISSEMINATING THE MIDDLE CLASS AND FUNNELING POWER INTO A FEW MONOPOLISTIC COMPANIES.

"WORLD'S MOST PRIVATE EMAIL"



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THE QUESTION, THEN, BECOMES WHETHER OR NOT CONSUMERS WILL EVER WRAP THEIR HEADS AROUND THE IDEA OF PAYING FOR EMAIL. ALBRECHT ACKNOWLEDGES THE CHALLENGE, BUT SHE SAID IT'S ULTIMATELY A MATTER OF PAYING WITH YOUR WALLET OR WITH YOUR DATA.



ixquick

“WORLD’S MOST PRIVATE EMAIL”



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Peter Sunde

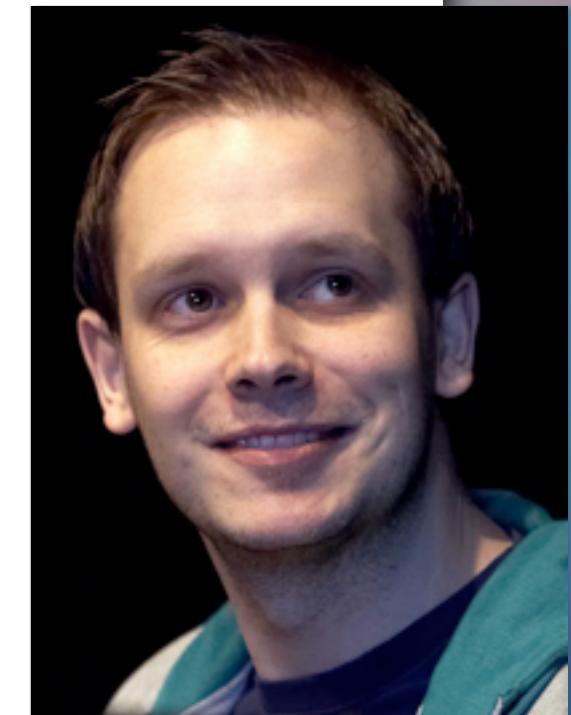
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NSA-PROOF MESSENGER APP



"WHO RUNS THE INFRASTRUCTURE? HOW DO YOU KNOW THE INTENTIONS OF THOSE PEOPLE? WHICH JURISDICTION HAS WHICH RULES? "WE KNOW THESE THINGS JUST AS WELL AS THE TECHNOLOGY. TODAY'S INTERNET IS MORE AND MORE POLITICIZED SO IT NEEDS TO BE DEALT WITH THAT WAY AS WELL."



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Dotcom's Mega Debuts Spy-Proof Messaging This Summer, Email Follows

 Ernesto

Catering to the demands of millions of people, Kim Dotcom's Mega is planning to release its encrypted messaging service in four to six weeks. The company will first roll out a web-based messaging platform, soon to be followed by apps and encrypted email. According to Mega CEO Vikram Kumar the Internet is the battleground of a new crypto war, which will not be lost by the public.

 July 11,
2013

136

 encryption,
privact

The NSA PRISM scandal and the global increase in online surveillance has increased the demand for more private means of communications.

 Print

The traceless search engine DuckDuckGo has witnessed a massive boost in visitors, and this week the new encrypted messaging service from Peter Sunde raised \$100,000 via crowd-funding in just one day.

Kim Dotcom's Mega, which brands itself as "The Privacy Company," is also expanding its offering in the encryption niche. Currently the site allows users to store their files fully



NewsBits

Even more news...

[TV Station Covers Up "Ho Lee Fuk" Blunder With a DMCA Takedown](#)

By now most people have probably seen KTVU's embarrassing blunder, reading the made-up names of Asiana...

[Prenda Loses Again, Hit for \\$22,000](#)

The continuing Prenda Law debacle has just resulted in another defeat for the world's most famous...

[Clueless Law Enforcement Try to Track Down IP Address Users](#)

Among the responsibilities of the non-profit RIPE NCC organization is to hand out IP addresses in...

[EFF Sues U.S. Government to Stop NSA Spying](#)

The Electronic Frontier Foundation has filed a lawsuit against the NSA's spy programs. The EFF is...

[Police Investigate Dotcom's Face Projected Onto U.S. Embassy](#)

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[Clueless Law Enforcement Officers Address Users](#)

Among the responsibilities of law enforcement organizations is to handle

[EFF Sues U.S. Government Over NSA Spying](#)

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By Ernesto

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"WE EXPECT TO HAVE [PRIVATE] MESSAGING WITHIN MEGA IN FOUR TO SIX WEEKS, AND WITHIN APPS IN TWO TO THREE MONTHS A FULL-SCALE ENCRYPTED EMAIL SERVICE IS EXPECTED TO BE RELEASED IN SIX TO NINE MONTHS"

Kumar the Internet is the battleground of a new crypto war, which will

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SPY-PROOF MESSAGING



THIS E-MAIL WILL SELF-DESTRUCT IN FIVE SECONDS

AT&T [...] APPLIED FOR A PATENT FOR SELF-DELETING E-MAIL. ONCE SENT, THESE MISSIVES WON'T HANG AROUND IN SOME INBOX WAITING FOR SOMEONE TO DO WHAT HE PLEASES WITH THEM. THEY'LL DISINTEGRATE, SO TO SPEAK.

"METHOD, SYSTEM, AND APPARATUS FOR PROVIDING SELF-DESTRUCTING ELECTRONIC MAIL MESSAGES" IS U.S. PATENT APPLICATION NUMBER 20130159436 AND WAS RECENTLY MADE PUBLIC. [E-MAILS COULD BE SET TO DELETE THEMSELVES,

THIS E-MAIL WILL SELF-DESTRUCT IN FIVE SECONDS

"THE INABILITY TO CONTROL THE NUMBER AND TYPE OF OPERATIONS THAT MAY BE SUBSEQUENTLY PERFORMED ON A SENT E-MAIL MESSAGE MAKES CONVENTIONAL E-MAIL SYSTEMS UNSUITABLE FOR SENDING CONFIDENTIAL INFORMATION FOR WHICH ABSOLUTE CONTROL OF DISTRIBUTION IS A NECESSITY," THE APPLICATION STATES.

THE APPLICATION DESCRIBES HOW THE CLIENT AND APPLICATION WILL DESTROY THE MESSAGE AT A SET TIME, WITH THE OPTION TO DO SO REGARDLESS OF WHETHER IT'S BEEN READ OR NOT. [AND PREVENT FORWARDING OR COPYING].

"ALL INSTANCES OF THE E-MAIL MESSAGE ARE DELETED FROM THE RECIPIENT'S COMPUTER."

THIS E-MAIL WILL SELF-DESTRUCT IN FIVE SECONDS



Riseup provides online communication tools for people and groups working on liberatory social change. We are a project to create democratic alternatives and practice self-determination by controlling our own secure means of communications.

Email

<https://mail.riseup.net>

We provide secure and private email accounts, accessible via the web, shell, IMAP, or POP. [Get help on mail](#). [Login to webmail](#). [Request an account](#). [Reset lost password](#). [Change my settings](#).

Mailing Lists

<https://lists.riseup.net>

We provide mailing lists for activist organizations. [Get help on lists](#). [Login to lists](#). [Request a list](#). [Subscribe](#). [Unsubscribe](#).

New Services

We are testing **VPN**, **chat**, and **etherpad** services. These services are still under development, and may be unreliable at times. If you want to help test them, please give them a try.

Resources

Security

Resources and tutorials for more secure communication.

System Updates

Mailing lists delayed.

09 Jul 18:28

We apologize for the inconvenience. List mail is catching up, and all mails will come through eventually.

Network outages expected today: please hold on, things will be back shortly

20 Jun 23:23

Due to some network configuration changes, there will be some problems contacting riseup servers during this transition. We expect this interruption to be short!

Mail login problems resolved

20 Jun 00:55

Everything is back to normal now, any emails that were sent to you will still be

PRIVACY FOCUSED ORGANIZATIONS



Riseup provides online communication tools for people and groups working on liberatory social change. We are a project to create democratic alternatives and practice self-determination by controlling our own secure means of communications.

Email

<https://mail.riseup.net>

We provide secure and private email accounts, accessible via the web, shell, IMAP, or POP. Get help on mail. Login to webmail. Request an account. Reset lost password. Change my settings.

RISEUP PROVIDES ONLINE COMMUNICATION TOOLS FOR PEOPLE AND GROUPS WORKING ON LIBERATORY SOCIAL CHANGE. WE ARE A PROJECT TO CREATE DEMOCRATIC ALTERNATIVES AND PRACTICE SELF-DETERMINATION BY CONTROLLING OUR OWN SECURE MEANS OF COMMUNICATIONS.

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<https://lists.riseup.net>

We provide mailing lists for people and groups. Get help on lists. Join a mailing list. Request to join a mailing list. Unsubscribe from a mailing list.

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PRIVACY FOCUSED ORGANIZATIONS

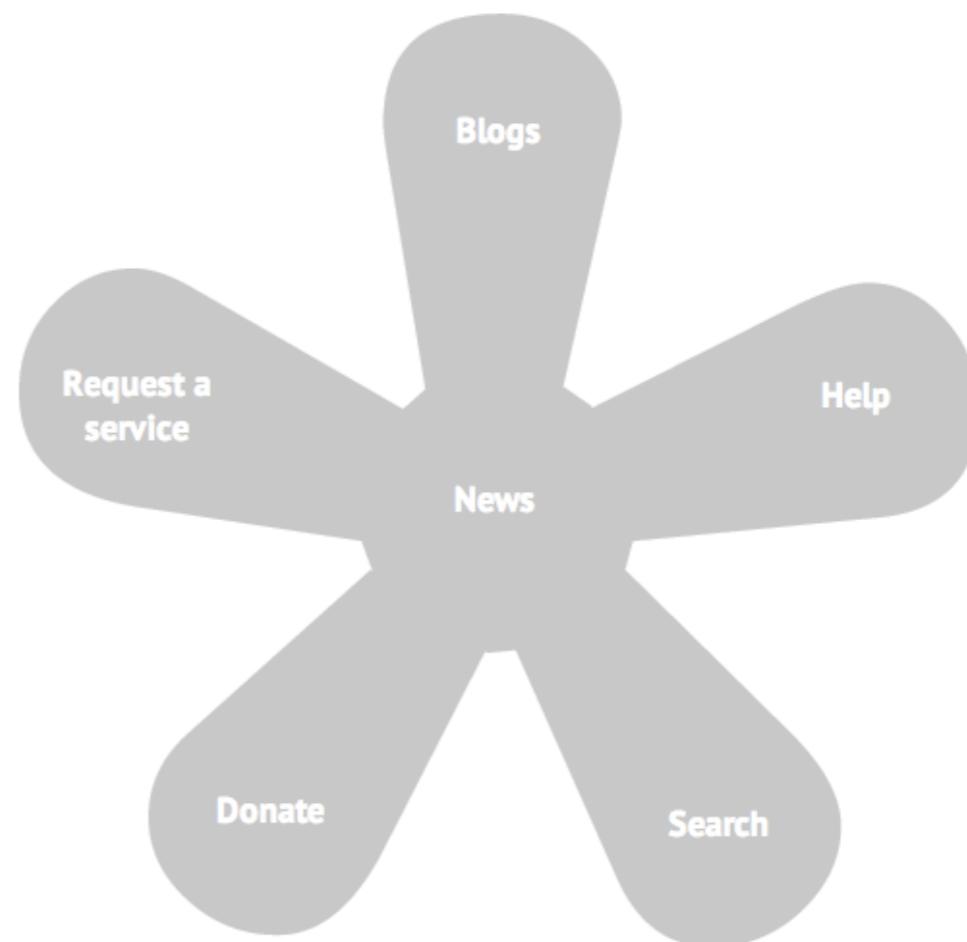
Welcome to Autistici/Inventati.

A/I was born more than 10 years ago when individuals and collectives dealing in technology, privacy, cyber rights and political activism met in Italy. Our fundamental aim is to provide free communication tools on a wide basis, while pushing people to choose free rather than commercial communication modes. We would like to arouse people's awareness about the need to protect their privacy and to escape the looting which is indiscriminately perpetrated by governments and corporations alike on both data and personalities.

We provide a full range of free, **privacy-aware services**, which include:

Blogs / Web Hosting
Anonymity Services / Personal VPNs
Email / Mailing lists, Newsletters and Forums
Instant Messaging and Chat / Software project hosting

All services are granted upon approval, as long as you respect our **policy** and share our **manifesto**



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**OUR FUNDAMENTAL AIM IS TO PROVIDE FREE COMMUNICATION TOOLS ON A WIDE BASIS,
WHILE PUSHING PEOPLE TO CHOOSE FREE RATHER THAN COMMERCIAL COMMUNICATION**

MODES.

Blogs / Web Hosting
Anonymity Services / Personal VPNs
Email / Mailing lists, Newsletters and Forums
Forum / Mailing list / Chat / Software repository

**WE WOULD LIKE TO AROUSE PEOPLE'S AWARENESS ABOUT THE NEED TO PROTECT THEIR
PRIVACY AND TO ESCAPE THE LOOTING WHICH IS INDISCRIMINATELY PERPETRATED BY
GOVERNMENTS AND CORPORATIONS ALIKE ON BOTH DATA AND PERSONALITIES.**

Login

PRIVACY FOCUSED ORGANIZATIONS

Opt out of PRISM, the NSA's global data surveillance program. Stop the American government from spying on you by encrypting your communications and ending your reliance on proprietary services.

Web browser

Proprietary	Free alternatives	Notes
 Apple Safari	 Tor Browser Bundle Encrypted, anonymous browsing through the Tor network.	Use a combination of Tor Browser and another free browser to surf the web. Try to use Tor for everything. Browsing the web may be a bit slower, but it's far more secure.
 Google Chrome	 Mozilla Firefox Open source, flexible web browser.	Note that using Tor Browser to log into PayPal or a banking website may trip the website's fraud protection software.
 Microsoft Internet Explorer	 GNUzilla IceCat GNU version of Firefox.	Users of Tor Browser should also be aware that logging into HTTP (instead of HTTPS) websites may result in your credentials being captured by a malicious exit node.
	 Orbot Tor proxy for Android. 	Note that Firefox uses Google search by default. Google search should be replaced by more private alternatives . Why are Chromium, SRWare Iron, et al. not recommended on PRISM Break? More info here .

Web browser add-ons

	Free alternatives	Notes
	 HTTPS Everywhere	Safeguard your privacy and stop websites from tracking you by

PRIVACY FOCUSED TOOLS

THE NEW YORKER **STRONGBOX**



Strongbox is a new way for you to share information, messages, and files with our writers and editors and is designed to provide you with a greater degree of anonymity and security than afforded by conventional e-mail.

To help protect your anonymity, Strongbox is only accessible using the Tor network (<https://www.torproject.org>). When using Strongbox, *The New Yorker* will not record your I.P. address or information about your browser, computer, or operating system, nor will we embed third-party content or deliver cookies to your browser.

You can read our full privacy promise [here](#).

The New Yorker Strongbox is powered by **DEAD DROP**.

TO GET TO STRONGBOX AND BEGIN USING IT TO CONTACT WRITERS AND EDITORS AT *THE NEW YORKER*, JUST FOLLOW **THESE TWO STEPS:**

PURPOSE BUILT PRIVACY TOOLS

THE NEW YORKER
STRONGBOX



Strongbox is a new way for you to share information, messages, and files with our writers and editors and is designed to provide you with a greater degree of anonymity and security than afforded by conventional e-mail.

To help protect your anonymity, Strongbox is built to use the Tor network (<https://www.torproject.org>). When using Strongbox, we will not record information about your browser, computer, or operating system, nor will we embed third-party content or deliver cookies to your browser.

TO HELP PROTECT YOUR ANONYMITY, STRONGBOX IS ONLY ACCESSIBLE USING THE TOR NETWORK. WHEN USING STRONGBOX, THE NEW YORKER WILL NOT RECORD YOUR I.P. ADDRESS OR INFORMATION ABOUT YOUR BROWSER, COMPUTER, OR OPERATING SYSTEM, NOR WILL WE EMBED THIRD-PARTY CONTENT OR DELIVER COOKIES TO YOUR BROWSER.

TO GET TO STRONGBOX AND BEGIN USING IT TO CONTACT WRITERS AND EDITORS AT THE NEW YORKER, JUST FOLLOW THESE TWO STEPS:

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DeadDrop



[Fork DeadDrop](#)

[DeadDrop Documentation](#)

DeadDrop is a server application intended to let news organizations and others set up an online drop box for sources. It's open source software written by Aaron Swartz in consultation with a volunteer team of security experts. In addition to Aaron's code, the project includes installation scripts and set-up instructions both for the software, and for a hardened Ubuntu environment on which to run it.

DeadDrop was created with the goal of placing a secure drop box within reach of anyone with the need. But at this point expertise is still required to safely deploy this software. And the software itself needs more work.

DeadDrop is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program, and all material accompanying it, is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

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DeadDrop is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program, and all material accompanying it, is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU



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DeadDrop

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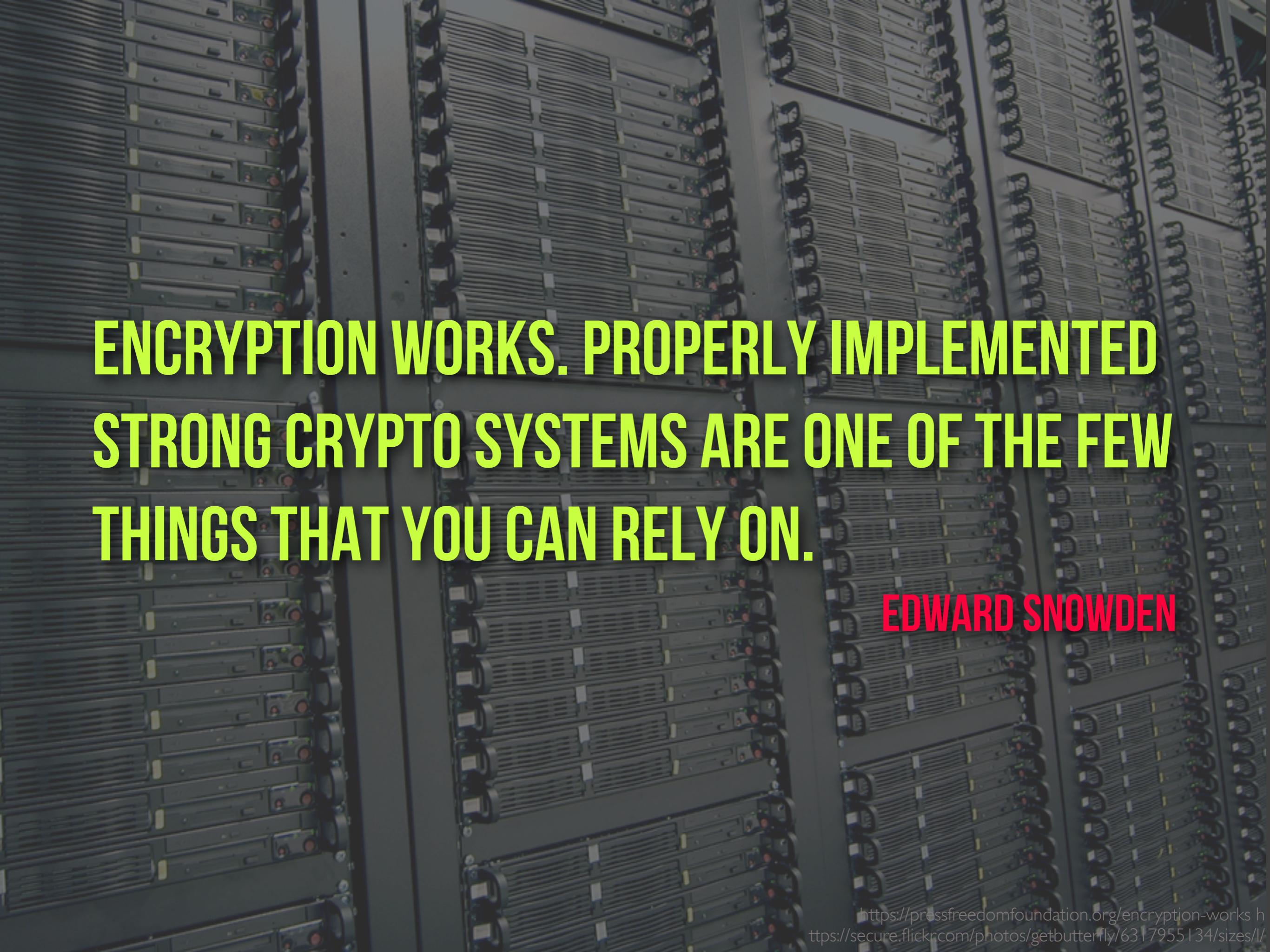
IN OPERATION, EVERY SOURCE IS GIVEN A UNIQUE "CODENAME." THE CODENAME LETS THE SOURCE ESTABLISH A RELATIONSHIP WITH THE NEWS ORGANIZATION WITHOUT REVEALING HER REAL IDENTITY OR RESORTING TO E-MAIL. SHE CAN ENTER THE CODE NAME ON A FUTURE VISIT TO READ ANY MESSAGES SENT BACK FROM THE JOURNALIST

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PURPOSE BUILT PRIVACY TOOLS

RESOURCES FOR IMPROVEMENT



A dark server room filled with rows of server racks. The racks are filled with various components like hard drives and network cards. The lighting is low, highlighting the metallic surfaces of the servers.

**ENCRYPTION WORKS. PROPERLY IMPLEMENTED
STRONG CRYPTO SYSTEMS ARE ONE OF THE FEW
THINGS THAT YOU CAN RELY ON.**

EDWARD SNOWDEN



Surveillance Self-Defense

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The SSD Project

- ▶ Risk Management
- ▶ Data Stored on Your Computer
- ▶ Data on the Wire
- ▶ Information Stored By Third Parties
- ▶ Foreign Intelligence and Terrorism Investigations
- ▶ Defensive Technology
 - Internet Basics
 - Encryption Basics
 - Web Browsers
 - Email
 - Instant Messaging (IM)
 - Wi-Fi
 - Tor
 - Malware
 - Mobile Devices
 - Secure Deletion
 - File and Disk Encryption
 - Virtual Private Networks (VPN)
 - Voice over Internet Protocol (VoIP)

Email

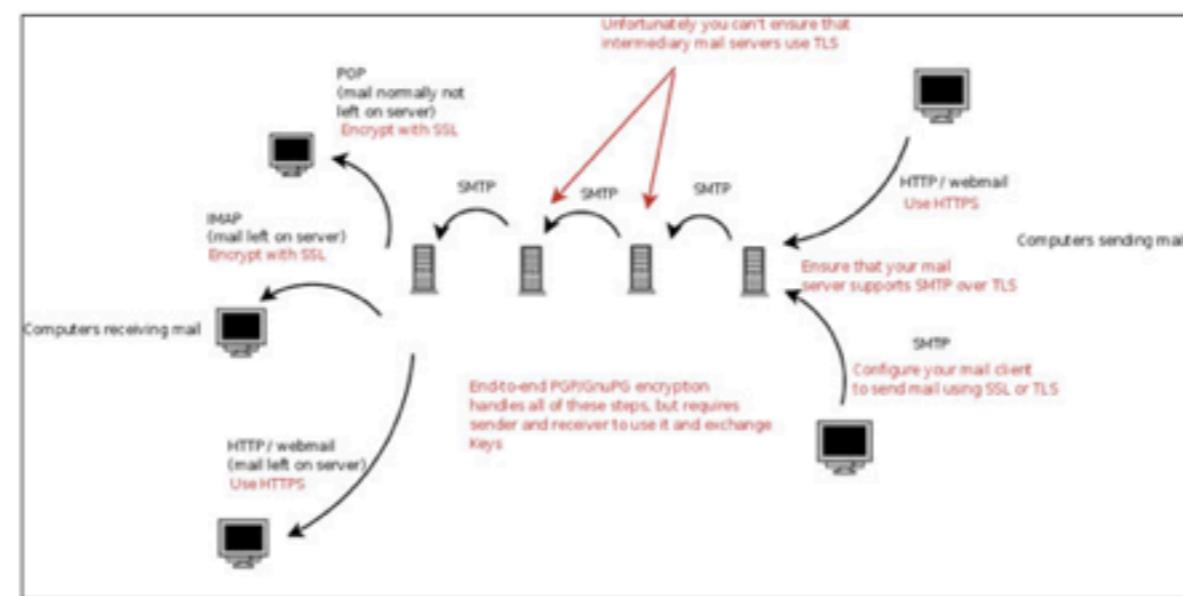
The act of using email stores data on your machines, transmits data over the network, and stores data on third party machines.

Locally Stored Data

The usual measures apply to managing the copies of emails (both sent and received) that are kept on your own machines. Encrypt your drives and decide upon and follow an appropriate data deletion policy.

Data on the Wire

Email usually travels through a number of separate hops between the sender and receiver. This diagram illustrates the typical steps messages might travel through, the transmission protocols used for those steps, and the available types of encryption for those steps.



End-to-End Encryption of Specific Emails

Encrypting emails all the way from the sender to the receiver has historically been difficult, although the tools for achieving this kind of end-to-end encryption are getting better and easier to use. Pretty Good Privacy (PGP) and its free cousin GNU Privacy Guard (GnuPG) are the standard tools for doing this. Both of these programs can provide protection for your email in transit and also protect your stored data. Major email clients such as Microsoft Outlook and Mozilla Thunderbird can be configured to

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Encryption Works: How to Protect Your Privacy in the Age of NSA Surveillance

July 2, 2013

By [Micah Lee](#) 

[View this whitepaper in PDF form.](#)

Encryption works. Properly implemented strong crypto systems are one of the few things that you can rely on. Unfortunately, endpoint security is so terrifically weak that NSA can frequently find ways around it.

– Edward Snowden, answering questions live on the [Guardian's website](#)

The NSA is the biggest, best funded spy agency the world has ever seen. They spend billions upon billions of dollars each year doing everything they can to vacuum up the digital communications of most humans on this planet that have access to the Internet and the phone network. And as the recent reports in the Guardian and Washington Post show, even domestic American communications are not safe from their net.

Defending yourself against the NSA, or any other government intelligence agency, is not simple, and it's not something that can be solved just by downloading an app. But thanks to the dedicated work of civilian cryptographers and the free and open source software community, it's still possible to have privacy on the Internet, and the software to do it is freely available to everyone. This is especially important for journalists communicating with sources online.

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Message Security

- 1 [Concepts in Message Encryption](#)
- 2 [Tips for Learning Message Encryption](#)
- 3 [Limitations of Message Encryption](#)
- 4 [Email Encryption with PGP](#)
- 5 [Instant Message Encryption with OTR](#)

Message security is the practice of encrypting messages on your device so that they can be read only by the intended recipient. Although [network security](#) and [device security](#) are important, this kind of **message encryption** is necessary in many situations:

- **Confidentiality:** Message encryption is the only way to ensure that only the intended recipients are reading your messages.
- **Authenticity:** Message encryption is the only way to ensure the identity of the people you are communicating with.

Practicing message encryption, however, can be a challenge:

- **You must own a device:** The idea with message encryption is that you don't trust another party to encrypt your communication for you. Therefore, all the encryption takes place on your machine, which means you need to own your own device.
- **Steep learning curve:** In order to use encryption software correctly, you will need to spend a significant amount of time learning important encryption concepts like public keys, private keys, keyrings, etc.
- **Limited correspondents:** With message encryption, you can only communicate securely with other people using the same software.

Obviously, these guarantees of security don't apply if your device has been compromised.

Concepts in Message Encryption

What these help pages call "message encryption" is technically called "public-key cryptography".

Here is how it works:

- **Private key:** Everyone has their own private key. As the name implies, this key must be kept private. You use this private key in order to read the encrypted messages sent to you.
- **Public key:** Everyone also has a public key. This key is often distributed far and wide. When someone wants to send you a secure message, they use your public key to encrypt it. Only the person with the corresponding private key will be able to decrypt it.

Tips for Learning Message Encryption

Although it provides the highest level of security, public-key encryption is still an adventure to use.

CryptoParty.

Party like it's December 31st, 1983


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Party! Learn! Discuss! Organize! Spread!

What is CryptoParty?



learn!

Attend a CryptoParty to learn and teach how to use basic cryptography tools. A CryptoParty is free, public and fun. People bring their computers, mobile devices, and a willingness to

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CryptoParty is a decentralized, global initiative to introduce the most basic cryptography software and the fundamental concepts of their operation to the general public, such as the Tor anonymity network, public key encryption (PGP/GPG), and OTR (Off The Record messaging). CryptoParties are free to attend, public, and commercially and politically non-aligned. (see the [guiding principles](#))

- Where is the next party in your area ?
- How to run your own party?
- What to learn and what to teach
- How to spread the word!
- Checkout the Handbook

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Party like it's December 31st, 1983

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[What is CryptoParty?](#)



CryptoParty to learn and teach how to use cryptography tools. A CryptoParty is educational and fun. People bring their mobile devices, and a willingness to

get involved to introduce the most basic cryptography software and techniques to the general public, such as the Tor anonymity network, public key encryption, and secure messaging). CryptoParties are free to attend, public, and open to all (see the [guiding principles](#))

- How to spread the word!
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@Asher_Wolf

NSA-proof your e-mail in 2 hours

25 June 2013

by Drew Crawford

Published in:

[Code](#)

40 comments 

You may be concerned that the NSA is reading your e-mail. Is there really anything you can do about it though? After all, you don't really want to move off of GMail / Google Apps. And no place you would host is any better.

Except, you know, hosting it yourself. The way that e-mail was *originally designed to work*. We've all just forgotten because, you know, webapps-n-stuff. It's a lot of work, mkay, and I'm a lazy software developer.

Today we kill your excuses. Because I'm going to show you exactly how to do it, it's going to take about two hours to set up, and it's a "set it and forget it" kind of setup. Not only that, but it is actually going to be **better** than GMail, from a purely features perspective. It might surprise you to learn that people continue to develop email server software in a post-Google-apps world, and that the state of self-hosted is much better than you remember.

Now fair warning: it took me about two days to figure the stuff out you're going to see in this blogpost, starting from knowing basically nothing about modern e-mail servers. But now that I've figured it out, if you don't ask too many questions you can implement it from these notes in just two hours. So take this not just as a guide for setting up an e-mail server, but as two days of free consulting, that just happens to produce a complete recipe for a modern, fully-featured, fast email server at the end. *You're really going to turn down free consulting? Come on, buckle down and do this.*

A photograph of a server rack filled with numerous hard drives. The drives are arranged in a grid pattern, with many bays containing drives and others empty. The rack is dark grey or black, and the drives have various labels and indicator lights.

EMAIL SECURITY CONSIDERATIONS

-
- 1. SECURITY OF THE CONNECTION BETWEEN YOU AND YOUR EMAIL SERVICE (HTTPS, SSL)**
 - 2. SECURITY OF THE CONNECTION USED BETWEEN THE YOUR EMAIL SERVICE AND OTHER EMAIL SERVICES (SMTP-TLS)**
 - 3. SECURING THE CONTENT OF YOUR EMAIL (PGP (PRETTY GOOD PRIVACY), ENIGMA)**
 - 4. SECURING THE STORAGE OF YOUR EMAIL (DISK ENCRYPTION, OFFSHORE HOSTING)**

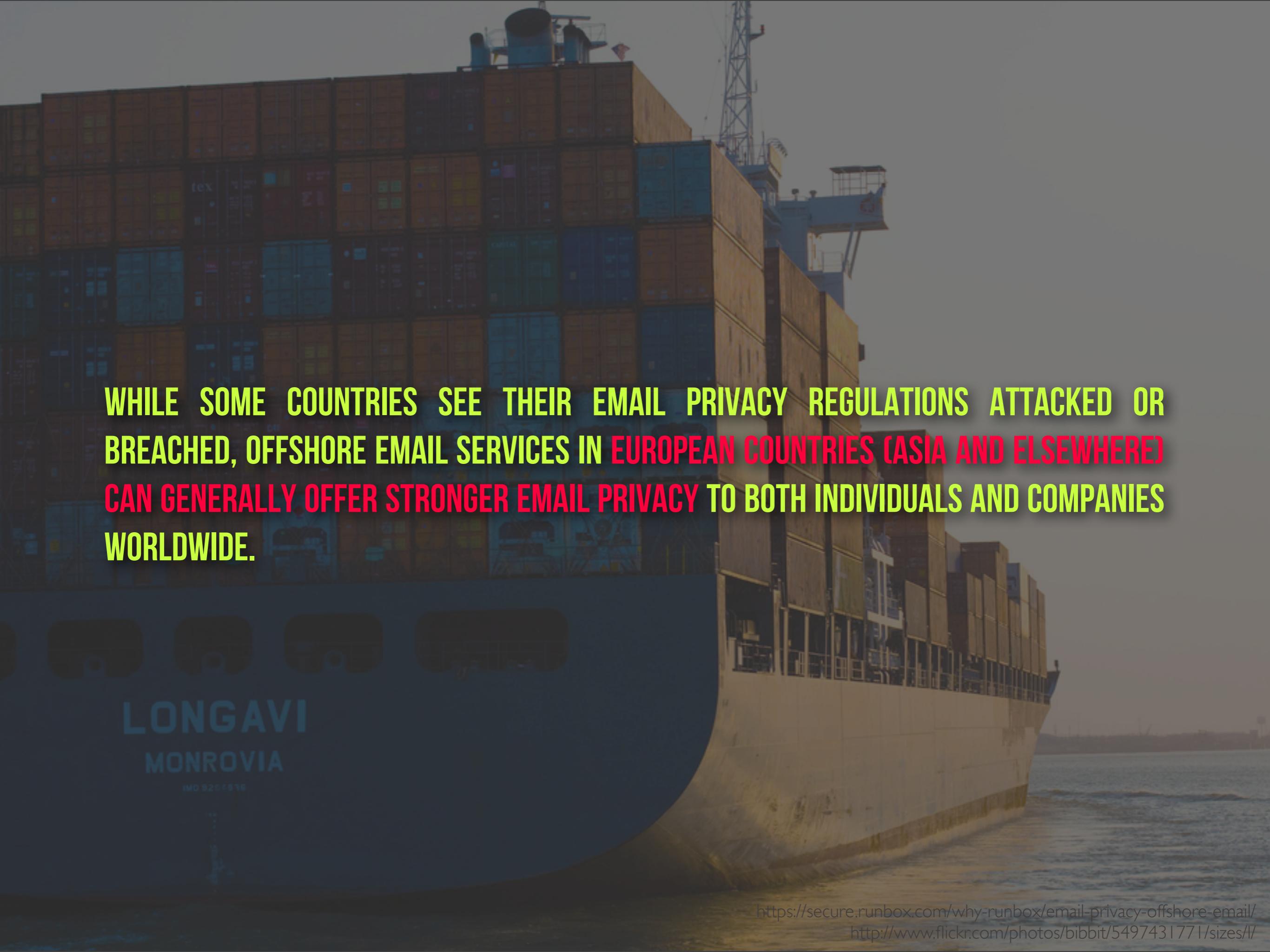
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SHIPPING YOUR EMAIL OFFSHORE



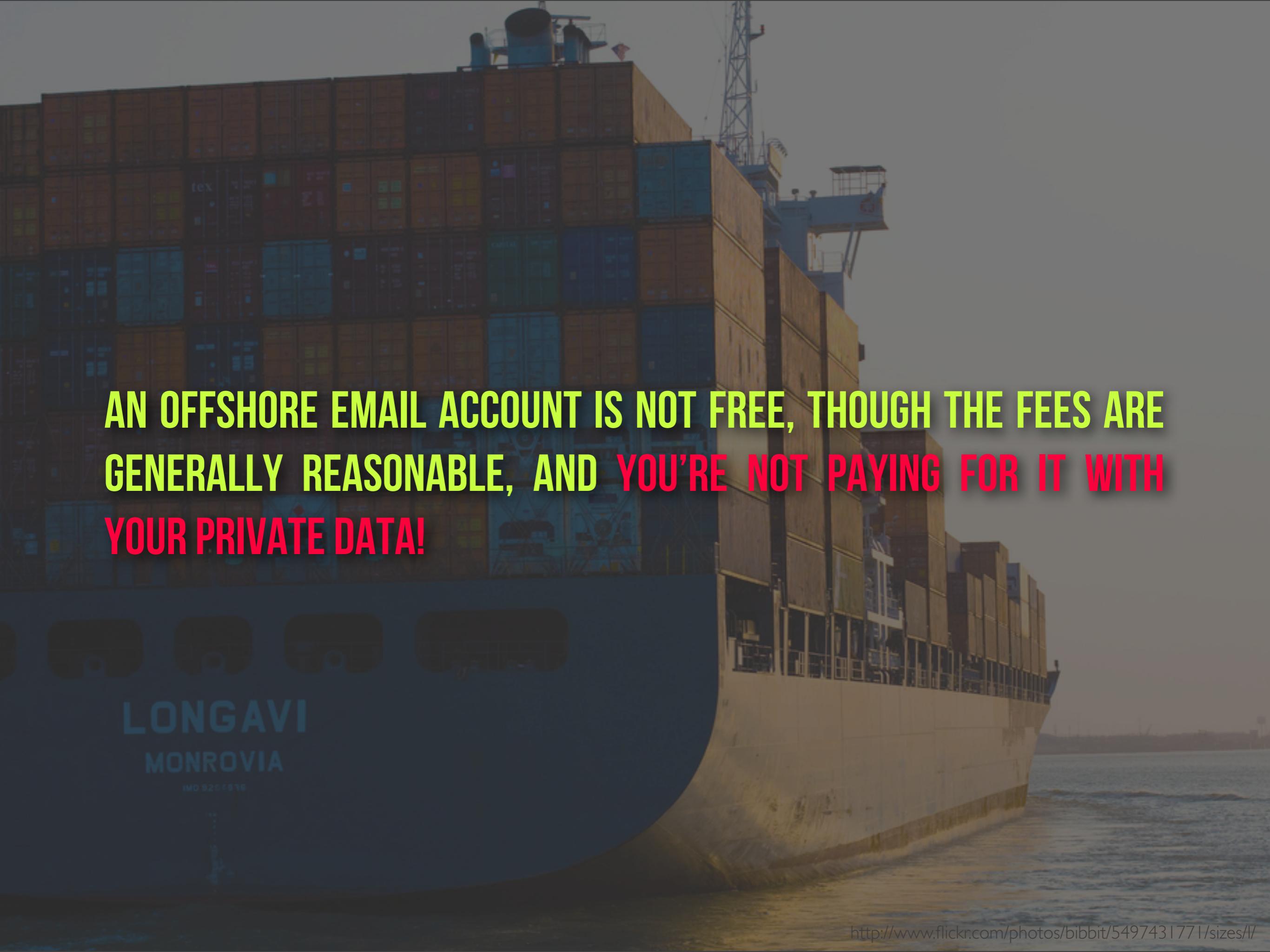
A large cargo ship, the "LONGAVI MONROVIA", is shown from a low angle, listing significantly to its left. The ship's hull is dark blue, and it is heavily laden with shipping containers stacked high along its side. The containers are various colors, including shades of brown, blue, and white. In the background, industrial port structures like cranes and other ships are visible under a clear sky.

WHILE SOME COUNTRIES SEE THEIR EMAIL PRIVACY REGULATIONS ATTACKED OR BREACHED, OFFSHORE EMAIL SERVICES IN EUROPEAN COUNTRIES (ASIA AND ELSEWHERE) CAN GENERALLY OFFER STRONGER EMAIL PRIVACY TO BOTH INDIVIDUALS AND COMPANIES WORLDWIDE.



SOME COUNTRIES, ESPECIALLY IN EUROPE, HAVE A CONSTITUTIONAL GUARANTEE OF SECRECY OF CORRESPONDENCE, WHEREIN EMAIL IS EQUATED WITH LETTERS AND THEREFORE PROTECTED FROM ALL TYPES OF SCREENING AND SURVEILLANCE. IN ELECTRONIC COMMUNICATION, THIS PRINCIPLE PROTECTS NOT ONLY THE MESSAGE CONTENTS BUT ALSO THE LOGS OF WHEN AND FROM/TO WHOM MESSAGES HAVE BEEN SENT.

IN NORWAY, FREEDOM OF EXPRESSION AND PRIVACY OF CORRESPONDENCE IS GOVERNED BY ARTICLE 100 AND 102 OF THE CONSTITUTION AND THE IMPLEMENTATION OF THE EUROPEAN CONVENTION ON HUMAN RIGHTS IN THE NORWEGIAN HUMAN RIGHTS ACT, ESPECIALLY ARTICLE 8: RIGHT TO RESPECT FOR PRIVATE AND FAMILY LIFE.



**AN OFFSHORE EMAIL ACCOUNT IS NOT FREE, THOUGH THE FEES ARE
GENERALLY REASONABLE, AND YOU'RE NOT PAYING FOR IT WITH
YOUR PRIVATE DATA!**

LONGAVI
MONROVIA

IMO 9264936

AN
GEN
YOU

ARE
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There's no such thing as **free email**

Privacy is priceless.



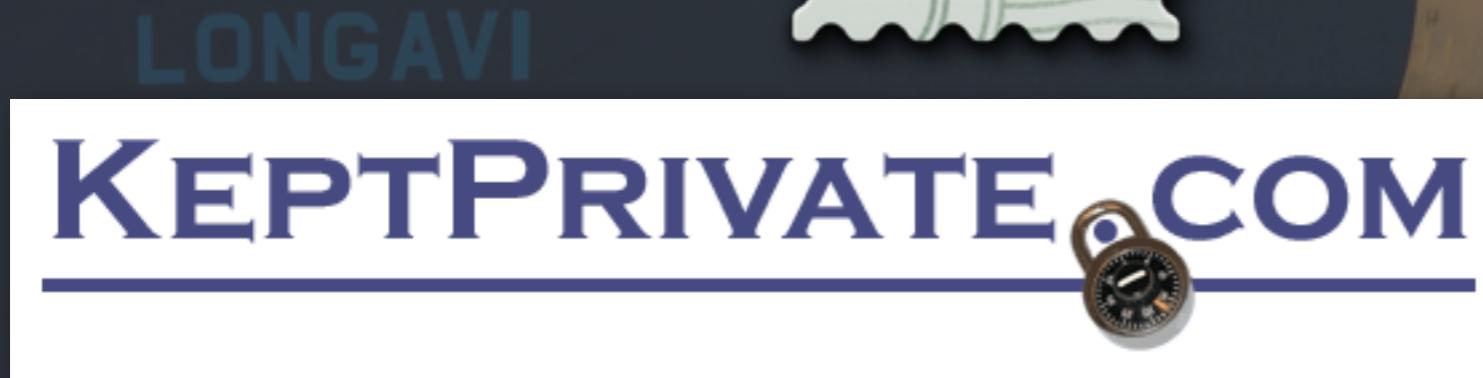


swissmail.org

shinJiru



SurfBouncer



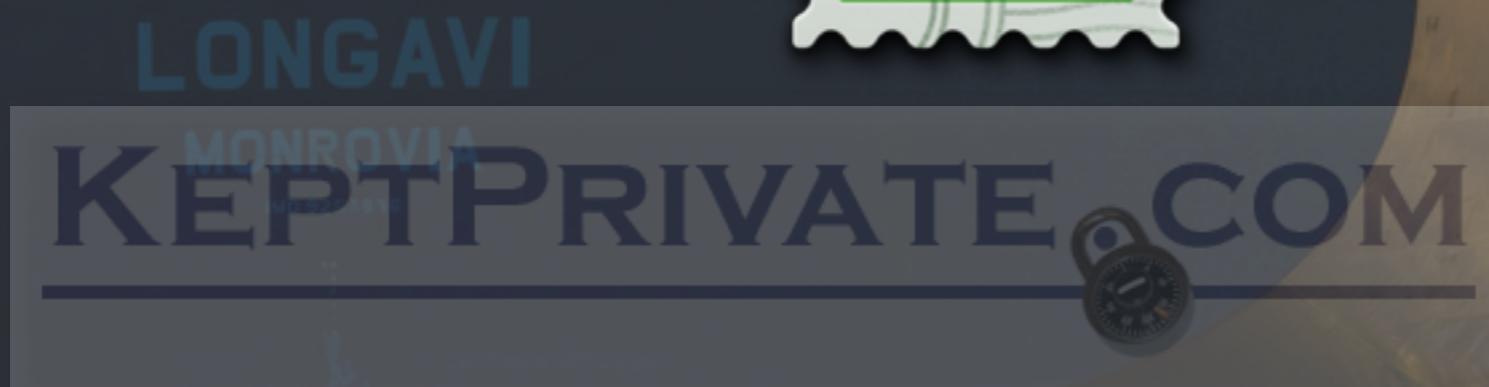


swissmail.org

[shinjiru](http://shinjiru.com)



[SurfBooster](http://surfbooster.com)



PERSONAL DATA MUST ONLY BE COLLECTED BY PRIVATE ENTITIES WHEN CONSENT FROM THE USER HAS BEEN OBTAINED.

PERSONAL DATA MUST NOT BE USED FOR PURPOSES INCONSISTENT WITH THE INITIAL PURPOSE OF COLLECTION EXCEPT WITH CONSENT FROM THE USER.

PERSONAL DATA MUST NOT BE STORED LONGER THAN REQUIRED BY THE PURPOSE OF COLLECTION.

PERSONAL DATA MUST BE KEPT CONFIDENTIAL UNLESS REQUIRED BY LAW.

DO NOT SELL OR PASS ON ANY INFORMATION ABOUT OUR USERS TO ANY THIRD PARTY.

OPENPGP ENCRYPTION, DIGITAL SIGNATURES.

KEPTPRIVATE.COM





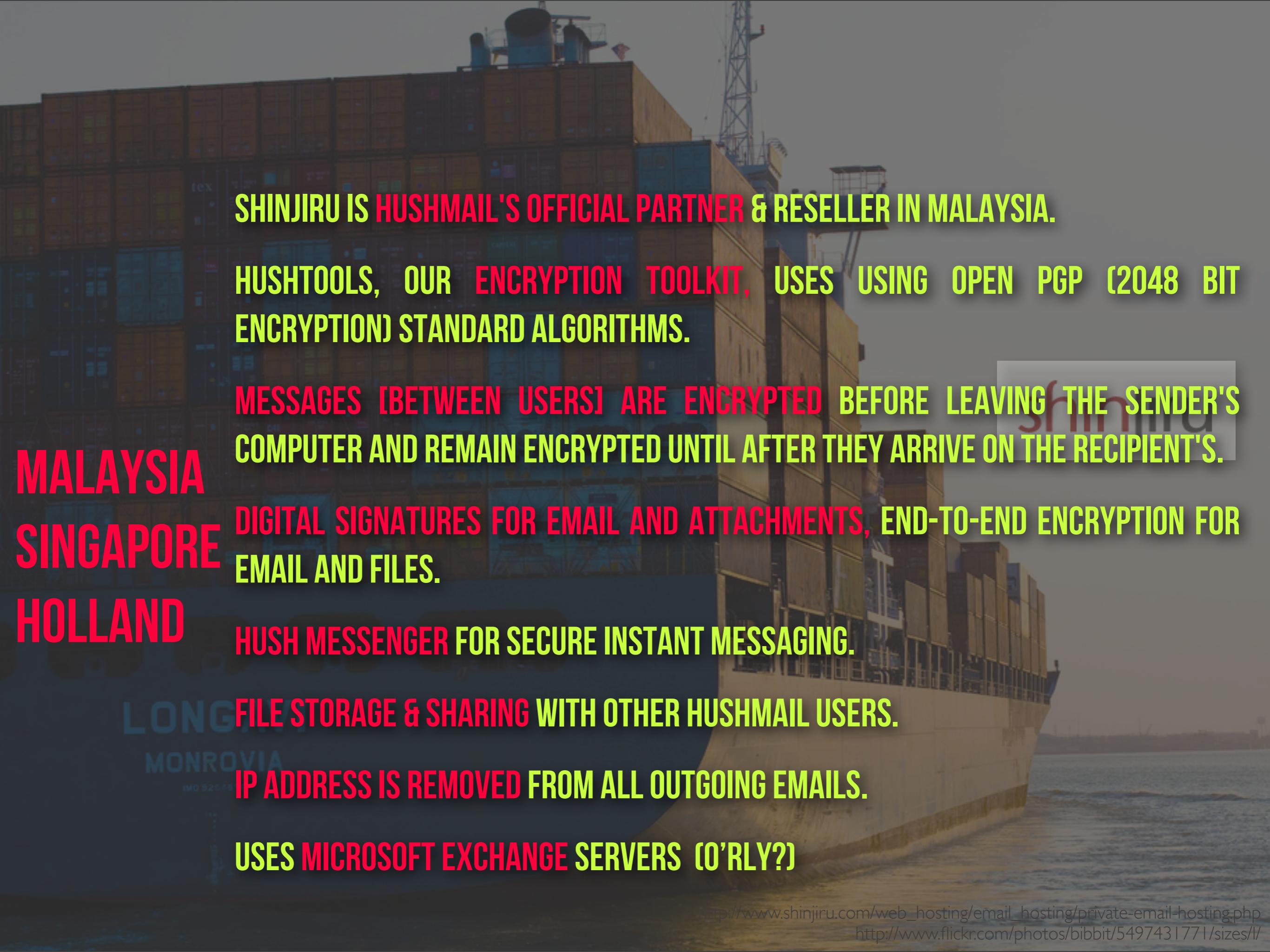
shinjiru

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IMO 9264936

http://www.shinjiru.com/web_hosting/email_hosting/private-email-hosting.php

<http://www.flickr.com/photos/bibbit/5497431771/sizes/l/>

The background of the slide features a large cargo ship docked at a port. The ship's hull is white, and it is heavily laden with numerous shipping containers stacked high along its sides. The sky above is overcast and grey.

SHINJIRU IS HUSHMAIL'S OFFICIAL PARTNER & RESELLER IN MALAYSIA.

HUSHTOOLS, OUR ENCRYPTION TOOLKIT, USES USING OPEN PGP (2048 BIT ENCRYPTION) STANDARD ALGORITHMS.

MESSAGES [BETWEEN USERS] ARE ENCRYPTED BEFORE LEAVING THE SENDER'S COMPUTER AND REMAIN ENCRYPTED UNTIL AFTER THEY ARRIVE ON THE RECIPIENT'S.

DIGITAL SIGNATURES FOR EMAIL AND ATTACHMENTS, END-TO-END ENCRYPTION FOR EMAIL AND FILES.

HUSH MESSENGER FOR SECURE INSTANT MESSAGING.

FILE STORAGE & SHARING WITH OTHER HUSHMAIL USERS.

IP ADDRESS IS REMOVED FROM ALL OUTGOING EMAILS.

USES MICROSOFT EXCHANGE SERVERS (O'RLY?)



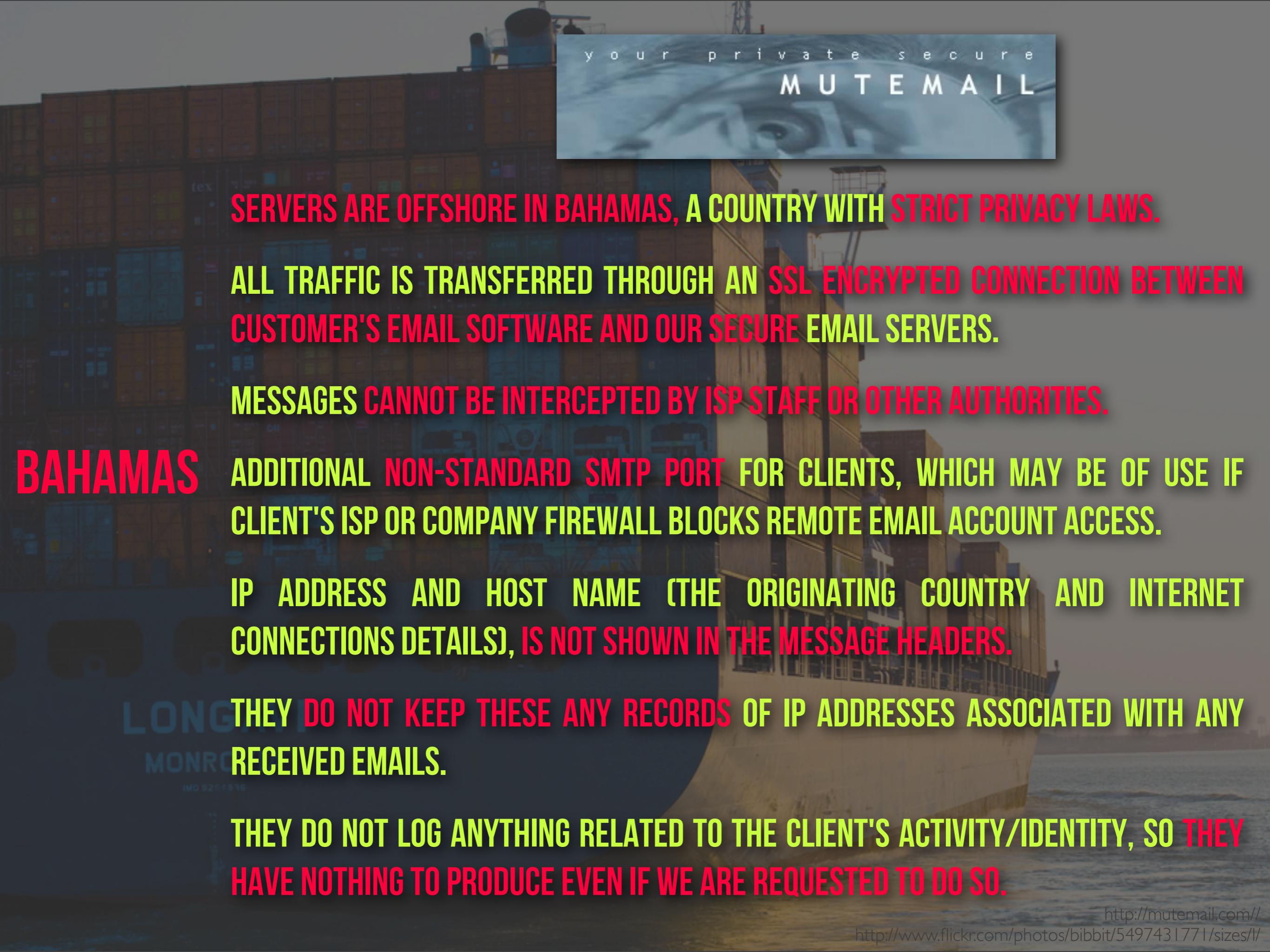
**LONGAVI
MONROVIA**

IMO 9264936

your private secure

MUTE MAIL

<http://mutemail.com/>
<http://www.flickr.com/photos/bibbit/5497431771/sizes/l/>



your private secure

MUTE MAIL

SERVERS ARE OFFSHORE IN BAHAMAS, A COUNTRY WITH STRICT PRIVACY LAWS.

ALL TRAFFIC IS TRANSFERRED THROUGH AN SSL ENCRYPTED CONNECTION BETWEEN CUSTOMER'S EMAIL SOFTWARE AND OUR SECURE EMAIL SERVERS.

MESSAGES CANNOT BE INTERCEPTED BY ISP STAFF OR OTHER AUTHORITIES.

BAHAMAS ADDITIONAL NON-STANDARD SMTP PORT FOR CLIENTS, WHICH MAY BE OF USE IF CLIENT'S ISP OR COMPANY FIREWALL BLOCKS REMOTE EMAIL ACCOUNT ACCESS.

IP ADDRESS AND HOST NAME (THE ORIGINATING COUNTRY AND INTERNET CONNECTIONS DETAILS), IS NOT SHOWN IN THE MESSAGE HEADERS.

LONG
MONRO
IMO 9204970
THEY DO NOT KEEP THESE ANY RECORDS OF IP ADDRESSES ASSOCIATED WITH ANY RECEIVED EMAILS.

THEY DO NOT LOG ANYTHING RELATED TO THE CLIENT'S ACTIVITY/IDENTITY, SO THEY HAVE NOTHING TO PRODUCE EVEN IF WE ARE REQUESTED TO DO SO.



LONGAVI
MONROVIA

IMO 9264936



<http://www.trilightzone.org/securemail.html>
<http://www.flickr.com/photos/bibbit/5497431771/sizes/l/>

SERVER SYSTEMS ARE COMPLETELY REALTIME ENCRYPTED INCLUDING YOUR EMAIL.

YOUR IP IS NEVER VISIBLE AND COMMUNICATION IS SSL/TLS ENCRYPTED.

WEBMAIL HAS PGP SUPPORT WITH UP TO 4096 BITS KEYS.

WEBMAIL FEATURES A VIRTUAL KEYBOARD, CALENDAR, NOTES, BOOKMARKS.

NETHERLANDS NO LOGS KEPT - NO JAVA OR JAVASCRIPT REQUIRED.

LUXEMBOURG EMAIL FROM/TO ACCOUNTHOLDERS IS AUTOMATICALLY ENCRYPTED.

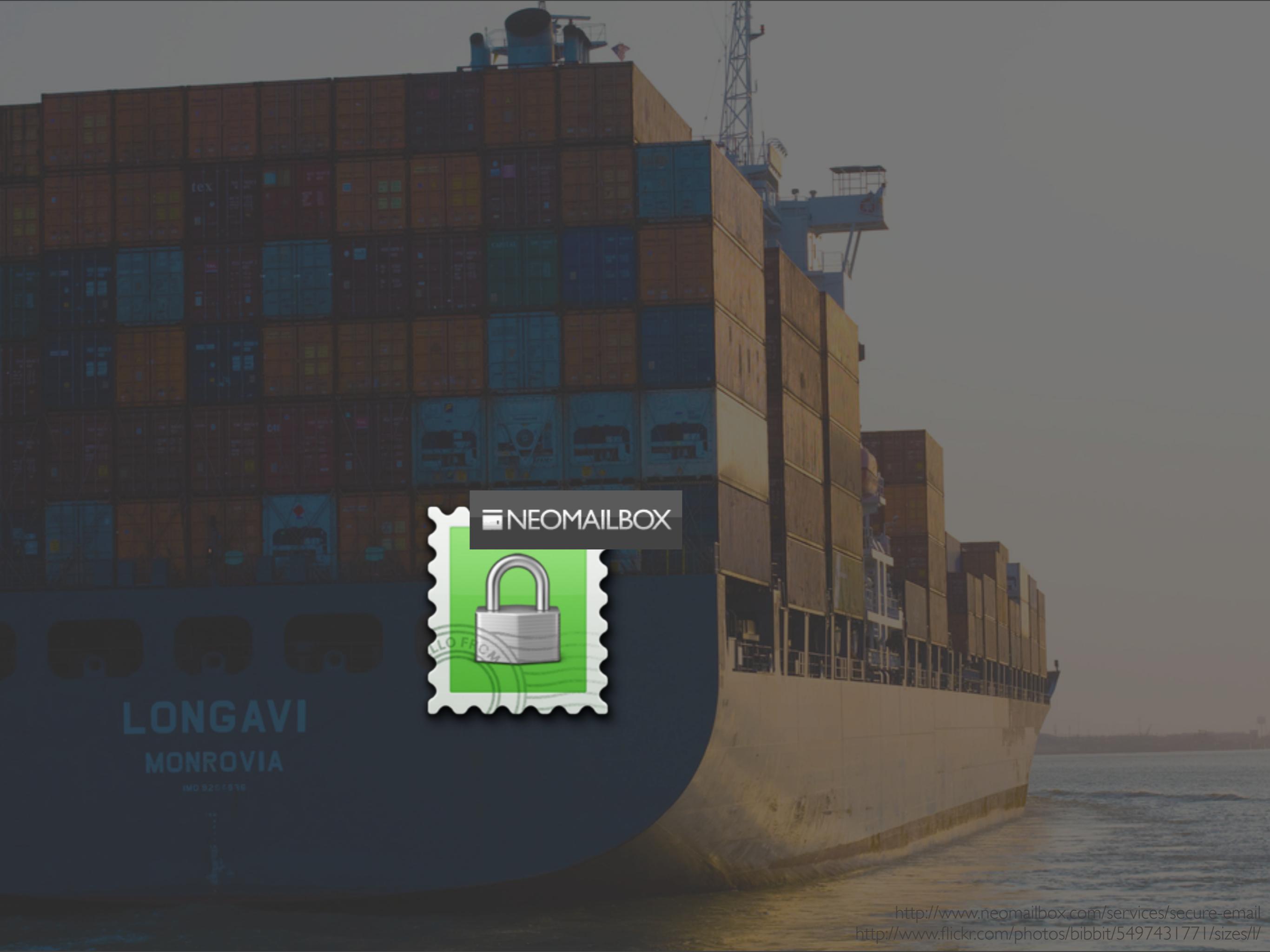
HONG KONG AVAILABLE OFFSHORE SSH PRIVACY TUNNEL & TRISHELL JURISDICTIONS.

MALAYSIA PAYMENT OPTIONS: PECUNIX, BITCOIN, PAYPAL, CREDITCARD, CASH, LITECOIN, BANKWIRE, MONEYORDER.

THEY BLOG, POST ARTICLES COVERING ONLINE PRIVACY AND ANONYMITY.

THEY LIST THEIR PUBLIC KEY ON THE SITE.



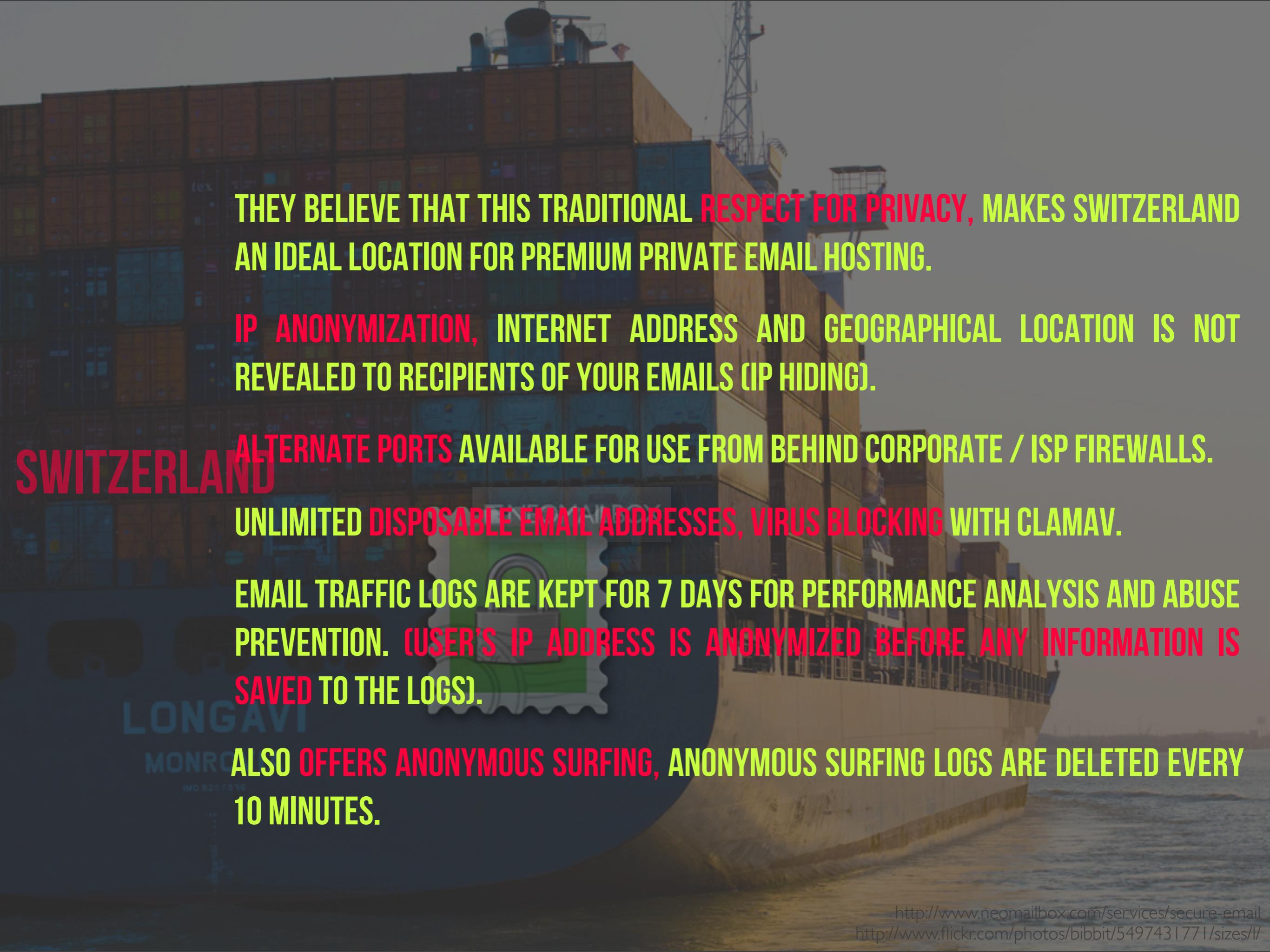


LONGAVI
MONROVIA

IMO 9264936



<http://www.neomailbox.com/services/secure-email>
<http://www.flickr.com/photos/bibbit/5497431771/sizes/l/>



THEY BELIEVE THAT THIS TRADITIONAL RESPECT FOR PRIVACY, MAKES SWITZERLAND AN IDEAL LOCATION FOR PREMIUM PRIVATE EMAIL HOSTING.

IP ANONYMIZATION, INTERNET ADDRESS AND GEOGRAPHICAL LOCATION IS NOT REVEALED TO RECIPIENTS OF YOUR EMAILS (IP HIDING).

SWITZERLAND ALTERNATE PORTS AVAILABLE FOR USE FROM BEHIND CORPORATE / ISP FIREWALLS.

UNLIMITED DISPOSABLE EMAIL ADDRESSES, VIRUS BLOCKING WITH CLAMAV.

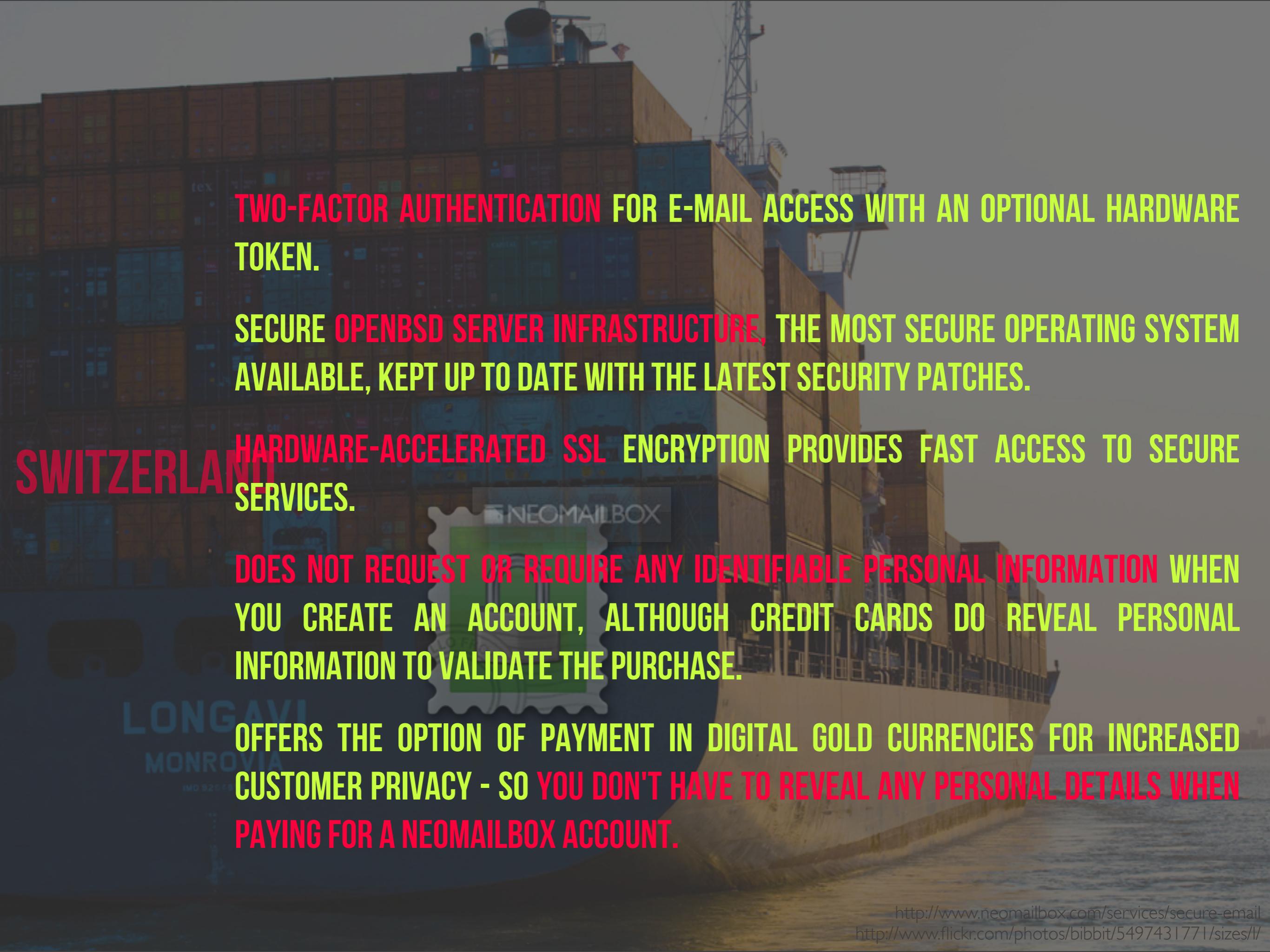
EMAIL TRAFFIC LOGS ARE KEPT FOR 7 DAYS FOR PERFORMANCE ANALYSIS AND ABUSE PREVENTION. (USER'S IP ADDRESS IS ANONYMIZED BEFORE ANY INFORMATION IS SAVED TO THE LOGS).

LONGAVI

MONROVIA

IMO 9204970

ALSO OFFERS ANONYMOUS SURFING, ANONYMOUS SURFING LOGS ARE DELETED EVERY 10 MINUTES.



TWO-FACTOR AUTHENTICATION FOR E-MAIL ACCESS WITH AN OPTIONAL HARDWARE TOKEN.

SECURE OPENBSD SERVER INFRASTRUCTURE, THE MOST SECURE OPERATING SYSTEM AVAILABLE, KEPT UP TO DATE WITH THE LATEST SECURITY PATCHES.

SWITZERLAND HARDWARE-ACCELERATED SSL ENCRYPTION PROVIDES FAST ACCESS TO SECURE SERVICES.

DOES NOT REQUEST OR REQUIRE ANY IDENTIFIABLE PERSONAL INFORMATION WHEN YOU CREATE AN ACCOUNT, ALTHOUGH CREDIT CARDS DO REVEAL PERSONAL INFORMATION TO VALIDATE THE PURCHASE.

OFFERS THE OPTION OF PAYMENT IN DIGITAL GOLD CURRENCIES FOR INCREASED CUSTOMER PRIVACY - SO YOU DON'T HAVE TO REVEAL ANY PERSONAL DETAILS WHEN PAYING FOR A NEOMAILBOX ACCOUNT.

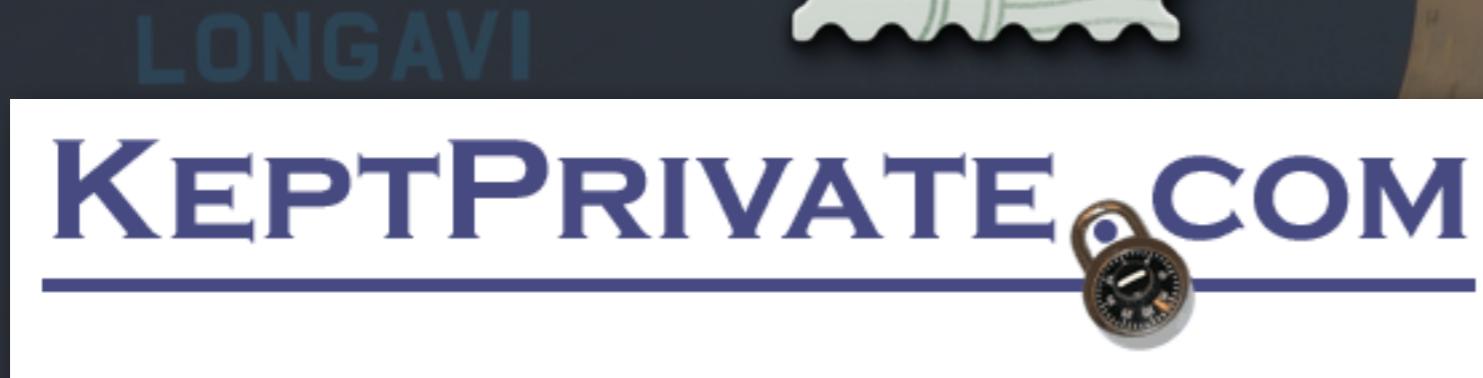


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PARTING SHOT



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PRIVACY



PRIVACY
PLEASE

But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids pleasure itself, because it is pleasure, but because those who do not know how to pursue pleasure rationally encounter consequences that are extremely painful. Nor again is there anyone who loves or pursues or desires to obtain pain of itself, because it is pain, but because occasionally circumstances occur in which toil and pain can procure him some great pleasure. To take a trivial example, which of us ever undertakes laborious physical exercise, except to obtain some advantage from it? But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure? On the other hand, we denounce with righteous indignation and dislike men who are so beguiled and demoralized by the charms of pleasure of the moment, so blinded by desire, that they cannot foresee the pain and trouble that are bound to ensue; and equal blame belongs to those who fail in their duty through weakness of will, which is the same as saying through shrinking from toil and pain. These cases are perfectly simple and easy to distinguish. In a free hour, when our power of choice is untrammelled and when nothing prevents our being able to do what we like best, every pleasure is to be welcomed and every pain avoided. But in certain circumstances and owing to the claims of duty or the obligations of business it will frequently occur that pleasures have to be repudiated and annoyances accepted. The wise man therefore always holds in these matters to this principle of selection: he rejects pleasures to secure other greater pleasures, or else he endures pains to avoid worse pains. 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slides:

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