

MYTH or Reality?

- The US is one of the most dangerous countries to enter
- Visitors to the US may choose other destinations instead of the US to avoid Border Search problems.
- Problems started in January, 2017

REALITY

Per CBP:

5 fold increase in US Border Electronic Media Searches from 2015 to 2016 from 4,764 in 2015 to 23,877 in 2016.

US Border is THE most dangerous except for everywhere else...

REALITY

CBP reported that in fiscal year 2012 the number of border device searches was 5,085.

In 2015 fiscal year, Customs and Border Protection searched the electronic devices of 8,503 international travelers. By fiscal year 2017, the number increased to 30,200

a six-fold increase in just five years

The US Border is THE most dangerous except for everywhere else...

Quick Case Studies

- 1. Steve the IT Professional visits China
- 2. Dr. Travel vacations in exotic places
- 3. Professor Engineer delivers lecture in Russia



In the news... Sept. 26, 2012:

A federal jury in Newark found Steve Liu guilty on nine counts, including exporting defense-related data without a license, possessing stolen trade secrets and lying to federal agents.

The case began when he returned with his laptop to Newark Airport on his return from China.



1. US Domestic 2. US Border Zone 3. International Border Crossings 4. Non-Embargoed Countries 5. Russia and China 6. Embargoed Countries

US Domestic

1. Constitutional Protections Supreme Court of The Constitution Supreme Court of The United States v. Detroit Timber & Lumber Co., 200 U. S. 321, 337.

2. Known rules/regulations

- 3. Encryption is critical
- 4. Limits on searches

OCTOBER TERM, 2013

Syllabus

RILEY v. CALIFORNIA

CERTIORARI TO THE COURT OF APPEAL OF CALIFORNIA. FOURTH APPELLATE DISTRICT, DIVISION ONE

No. 13-132. Argued April 29, 2014—Decided June 25, 2014*

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In No. 13-132, petitioner Riley was stopped for a traffic violation, which eventually led to his arrest on weapons charges. An officer searching Riley incident to the arrest seized a cell phone from Riley's pants pocket. The officer accessed information on the phone and noticed the repeated use of a term associated with a street gang. At the police station two hours later, a detective specializing in gangs further examined the phone's digital contents. Based in part on photographs and videos that the detective found, the State charged Riley in connection with a shooting that had occurred a few weeks earlier and sought an enhanced sentence based on Riley's gang membership. Riley moved to suppress all evidence that the police had obtained

and sought an enhanced sentence based on Riley's gang membership. Riley moved to suppress all evidence that the police had obtained from his cell phone. The trial court denied the motion, and Riley was convicted. The California Court of Appeal affirmed.

In No. 13–212, respondent Wurie was arrested after police observed him participate in an apparent drug sale. At the police station, the officers seized a cell phone from Wurie's person and noticed that the phone was receiving multiple calls from a source identified as "my house" on its external screen. The officers opened the phone, accessed its call log, determined the number associated with the "my house" label, and traced that number to what they suspected was Wurie's apartment. They secured a search warrant and found drugs, a firearm and ammunition, and cash in the ensuing search. Wurie was then charged with drug and firearm offenses. He moved to supwas then charged with drug and firearm offenses. He moved to sup-

What IS the US Border?

1. Constitutional limits

2. 100 miles off border AND Ports of Entry

including Airports

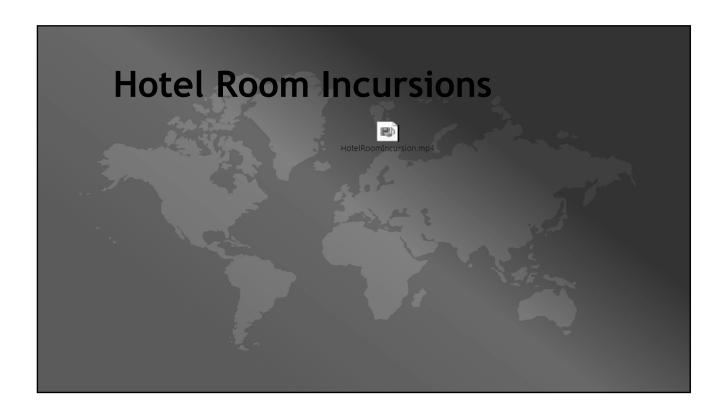


US Border 1. US Domestic 2. US Border Zone

- 3. International Border Crossings
- 4. Non-Embargoed Countries
- 5. Embargoed Countries

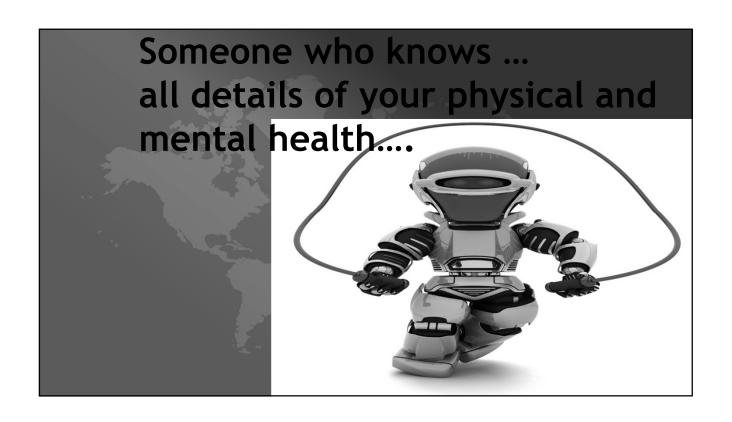


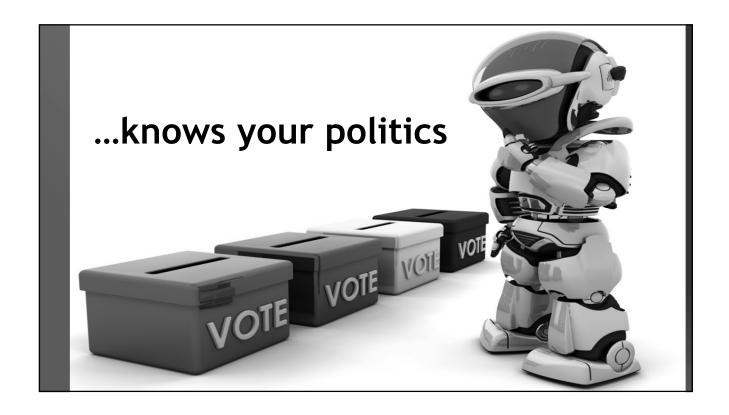


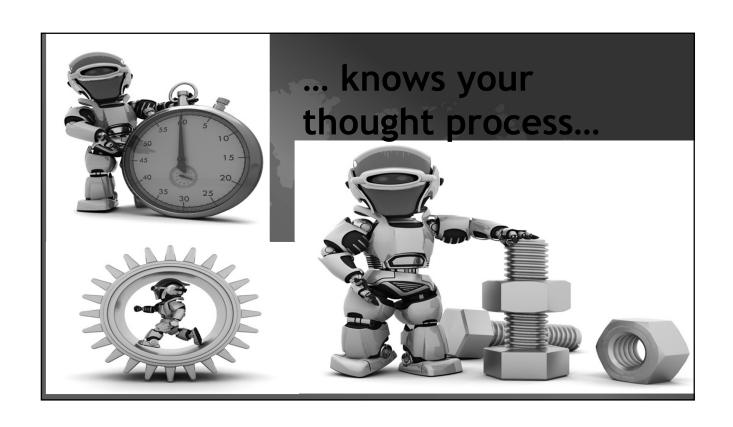
















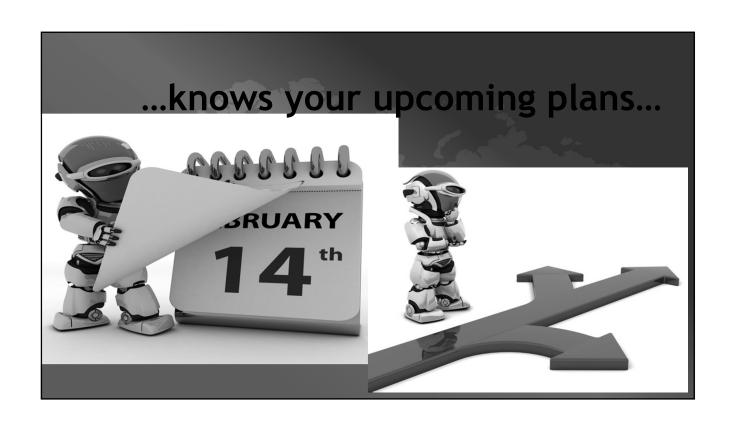


















...fits in your hand and travels everywhere with you...













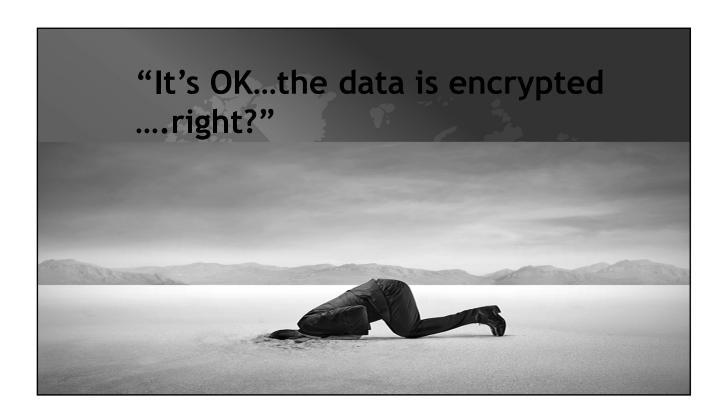


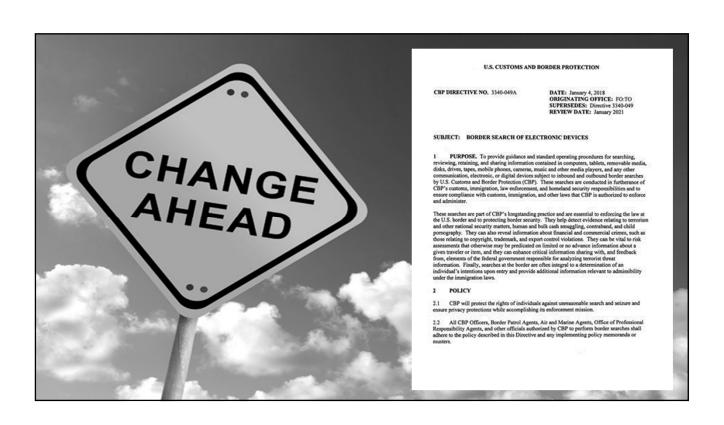
How do you define Data Breach? decryption decode data decryption decode data decryption decode data decryption applications decode GPS UFEDULTIMATE

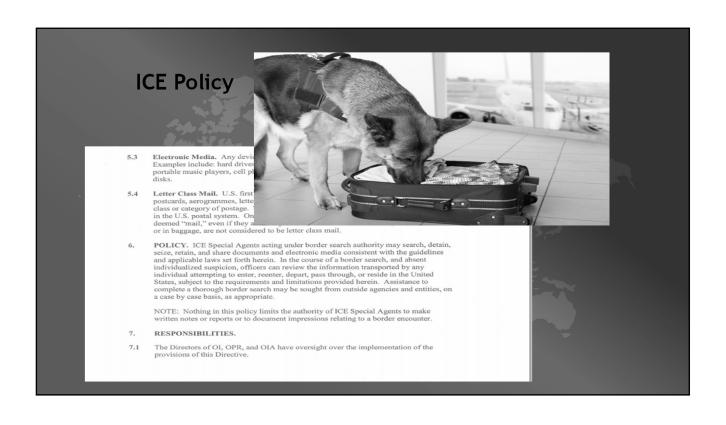
7 Things can happen....6 of them are bad!*

- 1. Import violation at the destination
- 2. Unlicensed export
- 3. Return with malware
- 4. Data breach (PII, PHI, PCI, CUI, Assets....)
- 5. Loss of credentials
- 6. Theft of device
- 7. Make use of the device

*There are more than 6!









Border Search Exception to the 4th Amend.

Searches conducted at the United States border or the equivalent of the border (such as an international airport) may be conducted without a warrant or probable cause subject to the "border-search" exception

Laptop Rule:

The U.S. Courts of Appeals for the Fourth and Ninth circuits have ruled that information on a traveler's electronic materials, including personal files on a laptop computer, may be searched at random, without suspicion

(US v. Ickes, 393 F.3d 501 (4th Cir., 2005) & US v. Arnold, 523 F.3d 941 (9th Cir. 2008)

US v. Cotterman....

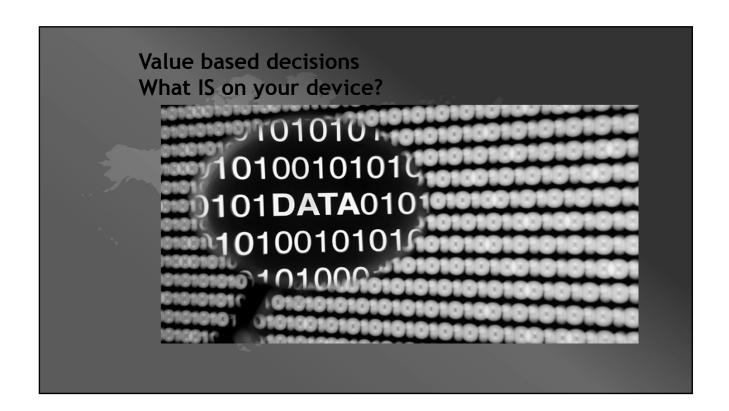
The Courts...

"Every day more than a million people cross American borders, from the physical borders with Mexico and Canada to functional borders at airports such as Los Angeles (LAX), Honolulu (HNL), New York (JFK, LGA), and Chicago (ORD, MDW). As denizens of a digital world, they carry with them laptop computers, iPhones, iPads, iPods, Kindles, Nooks, Surfaces, tablets, Blackberries, cell phones, digital cameras, and more. These devices often contain private and sensitive information ranging from personal, financial, and medical data to corporate trade secrets."

Continued...

"The amount of private information carried by international travelers was traditionally circumscribed by the size of the traveler's luggage or automobile. That is no longer the case. Electronic devices are capable of storing warehouses full of information. The average 400-gigabyte laptop hard drive can store over 200 million pages -- the equivalent of five floors of a typical academic library. Even a car full of packed suitcases with sensitive documents cannot hold a candle to the sheer, and ever-increasing, capacity of digital storage.

-UNITED STATES V. COTTERMAN
(US CT OF APP NINTH CIR en banc opinion filed March 8, 2013)







Reality Check: Travellers are exporters Your travel activities may legally constitute an export Hand-carry travel items such as your laptop, smart phone, and software are subject to export controls and many other regulations.



Every export is also an IMPORT

Countries with encryption import and use restrictions

- Burma (you must apply for a license)
- Belarus (import and export of cryptography is restricted; you must apply for a license from the Ministry of Foreign
- Affairs or the State Centre for Information Security or the State Security Agency before entry)
- China (you must apply for a permit from the Beijing Office of State Encryption Administrative
- Hungary (import controls)
- Iran (strict domestic controls)
- Israel (personal-use exemption must present the password when requested to prove the encrypted data is
- personal)
- Morocco (stringent import, export and domestic controls enacted)
- Russia (you must apply for a license)
- Saudi Arabia (encryption is generally banned)
- Tunisia (import of cryptography is restricted)
- Ukraine (stringent import, export and domestic controls)

A few of the interested agencies...

- Immigration & Customs Enforcement
- Department of Commerce
- Air Force Office of Special Investigations
- · Defense Criminal Investigative Services
- · Naval Criminal Investigative Services

- Federal Bureau of Investigation Alochol, Tabacco & Firearms
 - United States Secret Service
 - Customs & Border Protection
 - Drug Enforcement Agency
 - · Intelligence Agencies (CIA, DIA, NSA, etc.)
 - Army Criminal Investigation Command
 - · Others too

Technology factors

Difference between Commercial Off the Shelf Software (COTS) and proprietary or unreleased software

Unpublished Research Data if not covered under the FRE

Adjusted Peak Performance (APP)

•Hardware - Specialty laptops and equipment may require a license

- Radiation hardened or protected from extreme elements
- × High performance computers

Software and Encryption - may need a license

- Encryption software with symmetric key length of 64-bits or higher
- ▼ Controlled Software
- ▼ Military support applications

Export-controlled technical data

Best to back-up on a secure system and remove from laptop prior to travel

Encryption Fails at the border:

Forced decryption/inspection and drive backup

- PCI/PHI
- 3rd Party NDA/CDA
- Private Emails

Restrictions against importing encryption into foreign country

License required for export from U.S. for certain high powered encryption/cryptography

And...

Controlled technology taken out of the country while encrypted, is STILL controlled!

Do you know the applicable controls of the technology you are travelling with?

- Laptops, iPhones, Blackberries: 5A992
- Mass market software (Windows, OS X, Office, Adobe products, Visual Studio): 5D992
- Open source software (Linux, Apache): 5D002

What's in your laptop?

- PCI
- PHI
- PII
- 800-171 CUI
- 3rd Party NDA/CDA
- Private Emails

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Executive Travel Best Practices may include....

- 1. Clean devices be provided (fresh install or at least completely wiped of all existing accounts/passwords, email, documents, etc.
- 2. Set up a temporary email account for each trip and connect that email account to the devices.
- 3. Intermediary role to filter regular email and send only as necessary to the temporary email account.
- 4. Avoid accessing regular email account(s) from these devices while travelling in certain countries using only the temporary account.
- 5. On return devices should be wiped and reconfigured before being redeployed, temporary email accounts closed and deleted.

Old Best Practices

Consider backing up your data and leave a copy of your files in a safe and secure location such as your office or a departmental shared drive. Don't carry the only copy of data you can't afford to lose.

Don't carry data you don't want others to see: medical records, data files from your research, financial information, photos, etc.

Have a "Plan B" if there is data you will need when you reach your destination.

Password-protect, encrypt (if allowed) or remove all student, personal, and proprietary information stored on your laptop.

 $\label{thm:constraints} \textbf{Ensure that your operating system has a strong password or passphrase when it boots up.}$

Turn off file-sharing and print-sharing.

Make sure your system's security patches are up to date and your firewall is turned on.

Ensure that anti-virus, anti-spyware, and personal firewall software is installed on your laptop.

Use secure VPN for secure remote access

Consider purchasing a tracking application for your laptop in case it is lost or stolen.

Steps to Review

Classify the technology or goods involved (ITAR, EAR, OFAC, other?)

Determine if license is needed for the technology/end user/end use

Determine if license exception is available

Document the use of the exception

Steps to Review

If you must travel to one of the five embargoed countries, you may be able to obtain the appropriate export license, but the process can take, on average, a ninety days for review.

The Department of Commerce's Bureau of Industry and Security and the Office of Foreign Assets Control (OFAC) within Dept. of Treasury accept applications for licenses to export encryption products and technologies.





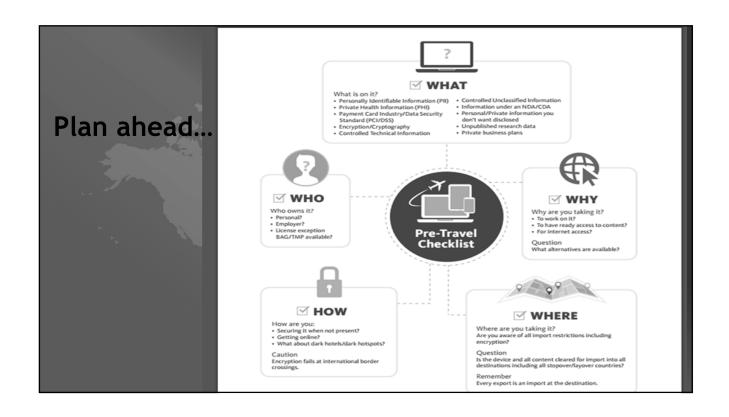
Former best practices?

Exercise reasonable care when hand-carrying a laptop computer to a foreign country

The laptop:

- MUST remain in reasonable control of the person(s) responsible for it at all times
- MUST not be used by anyone in the foreign country
- MUST not be left behind (upon your return), given away, or out of the US more than 1 year.

Consider taking a minimal "Wiped" device





Ask First

Am I carrying any information or data which is proprietary or under a non-disclosure agreement?

What are the consequences if this information were compromised?

Is the information controlled in any way including PHI, PII, PCI, or CUI?

Ask First (continued)

Is a license required for taking this information out of the country?

Do I know the rules for entering my destination country as well as planned and potential layover countries?

Before Traveling with Your Laptop...

Consider backing up your data and leave a copy of your files in a safe and secure location such as your office or a departmental shared drive. Don't carry the only copy of data you can't afford to lose.

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Reality Check

Exporting is a privilege—not a right

Every situation is unique

Ignorance is not a defense

Seek expert advice BEFORE you Travel!





