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University faculty has a connecting flight at an airport not on her travel itinerary....

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 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 UNITED STATES 2. Known rules/regulations 3. Encryption is critical 4. Limits on searches The Late of the Court of the

What IS the US Border?	
1. Constitutional limits	
2. 100 miles off border AND Ports of Entry	
including Airports	
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US Border 1. US Domestic 2. US Border Zone 3. International Border Crossings 4. Non-Embargoed Countries 5. Embargoed Countries

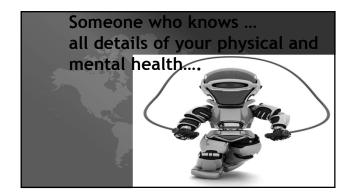
Hot Zone or Friendly? Great Britain Australia Canada

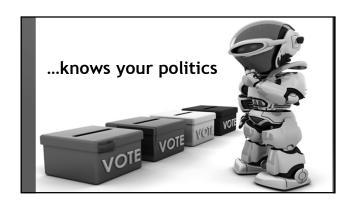


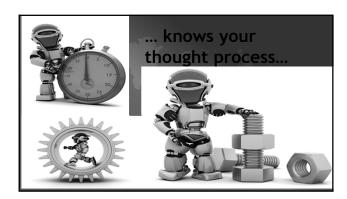








































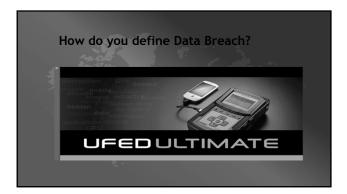




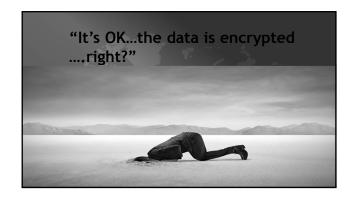








7 Things can happen6 of them are bad!*	
1. Import violation at the destination 2. Unlicensed export 3. Return with malware 4. Data breach (PII, PHI, PCI, CUI, Assets) 5. Loss of credentials 6. Theft of device 7. Make use of the device *There are more than 6!	









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

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....

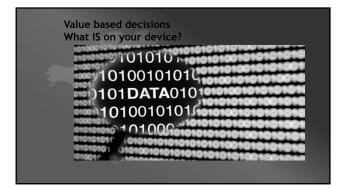
The Courts...

"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)











Every export is also an IMPORT Countries with encryption import and use restrictions Burna (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 Beljing Office of State Encryption Administrative Bureau) Hungary (import controls) Iran (strict domestic controls) Iran (stringent import, export and domestic controls enacted) Iran (stringent import, export and domestic controls) Ukraine (stringent import, export and domestic controls) A few of the interested agencies... Immigration & Customs Enforcement • United States Secret Service Enforcement Department of Commerce Air Force Office of Special Investigation Live Stanting Customs & Border Fraction Drug Enforcement Agency Intelligence Agencies (CIA, DIA, NSA, etc.) NSA, etc., • Defense Criminal Investigative Services NSA, etc., • Army Criminal Investigation Command Naval Criminal Investigative Services 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

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 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

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

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.
- 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
- 5. On return devices should be wiped and reconfigured before being redeployed, temporary email accounts closed and deleted.

Old Best Practices

Password-protect, encrypt (if allowed) or remove all student, personal, and propr your laptop.

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.

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

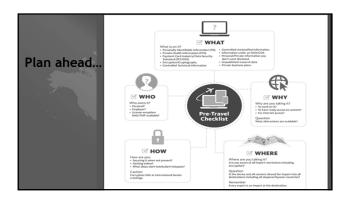
If you must travel to one of the five embargoed countries, you may be able to obtain the appropriate export license, but the process can take, on average, a ninety days for review.

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.





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... 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 labtop. Ensure that your operating system has a strong password or passphrase when it boots up. Make sure your system's security patches are up to date and your firewall is turned on. Consider purchasing a tracking application for your laptop in case it is lost or stolen.

	lity Check			
Ехр	orting is a priv	vilege—n	ot a right	
Eve	y situation is	unique		
Igno	rance is not a	defense		
See	expert advic	ce BEFORE	you Travel	F





