

# RSAC<sup>®</sup>Conference2020

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**HUMAN**  
ELEMENT

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## Implementing the Perfect Travel Laptop Program



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# Learning Objectives

- Understand critical vulnerabilities within the international travel threat landscape
- Consider the limitations of “domestic” solutions
- Craft solutions tailored to the risks
- Build a team-based compliance program

**An employee takes her encrypted laptop overseas...**



What is she transporting?



**PHI PII PCI**  
**Client Data**  
**NDA's**  
**Proprietary Plans**  
**Export Controlled**  
**Technical Information**



**The connecting flight at an airport not on her original travel itinerary...**



**The Anticipated Threat.**



The Unanticipated Threat.





# Case Studies

- Steve the IT Professional visits China
- A doctor vacations in exotic places
- A research professor lectures at a foreign conference
- Video:



HotelRoomIncursion.mp4

# The Challenge

“Security teams must ensure business travelers understand they have no inherent right to privacy while traveling, that most network operators conduct at least superficial surveillance campaigns on all foreign travelers, and the use of certain applications and websites will trigger in-depth surveillance for travelers.”

- Aaron Turner, IANS -Ensure Traveling Users Understand and Mitigate Potential Infosec Risks

# Triage Concerns

- Is the data and information contained within the device worth more than the device itself?
- What are the local laws in the country being entered?
- What is the result to both the individual and the organization if All DATA on the device were compromised or released?
- What is the effect of device encryption?

# Encryption Vulnerabilities Exposed at the Border

- Forced decryption and drive backup
- Restrictions against importing encryption into foreign country
- License required for export from U.S. for certain high powered encryption/cryptography
- Controlled technology taken out of the country while encrypted, is STILL controlled!

# International Case Studies

- UK
- Australia
- Canada
- Russia
- China
- Cuba
- Iran



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# Developing the “Perfect” Risk-Based Laptop Travel Program Tailored for the Organization

# Implementing a Compliance-Based Solution

- Form a cross functional compliance team
- Identify highest risks
- Mitigate with the 7 Elements of an “Effective” Compliance Program (US Sent. Guidelines §8B2.1)
- Monitor and adjust as laws and risks evolve

# Building a Compliance Team



# 7 Elements of an Effective Compliance Program



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# Practical Risk-Based Solutions



## 5 Risk-Based Questions

- What is on the device?
- Who owns it?
- How is it being used and secured?
- Why is it needed overseas?
- Where will it be located and for how long?

# What is on It?

- PCI
- PHI
- PII
- Unpublished research data
- Export controlled technology
- Encryption
- NDA's and 3<sup>rd</sup> party data

# What is on the Device and Why?

- Commercial Off the Shelf Software (COTS) OR proprietary/unreleased software
- Unpublished Research Data
- 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

# Technology Review Steps

- 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



# US Commerce Control List

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



# Are Licenses for Import OR Export Required?

- Is a license required for taking this information out of the country?
- Is a license required for taking this hardware out of the country?
- Do I know the rules for entering my destination country as well as planned and potential layover countries?

# Who is Traveling and Why Do They Need It?

- Must document the need
- Only for convenience?
- What is the minimum they need for that purpose?
- What mitigating alternatives are available?
- Pre-travel steps including surveys and training



## Where is it Going? (Planned and Unplanned)

- 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.



# Pre-Travel Briefings

- Pre-Travel Surveys
- Guides
- Notice forms
- Signed acknowledgement forms
- Travel Letters
- Classify data and hardware

# Training the Traveler

- A bulletproof program fails if no one uses it
- Organizations providing “solutions” result in travelers reaching out in advance with questions
- Inconvenience provides an opportunity to train on new devices
- Awareness sometimes begin with non-technical questions
- A travelogue on sites to see and photo tips can lead to a travel device



# Benefits of Inconvenience

- Linux
- Chromebook
- iPad
- Custom OS
- Security through Obscurity

# Outreach and Training



## International Travel with Laptops/Mobile Devices



### WHAT

#### What is on it?

- Personally Identifiable Information (PII)
- Private Health Information (PHI)
- Payment Card Industry/Data Security Standard (PCI/DSS)
- Encryption/Cryptography
- Controlled Technical Information
- Controlled Unclassified Information
- Information under an NDA/CDA
- Personal/Private information you don't want disclosed
- Unpublished research data
- Private business plans



### WHO

#### Who owns it?

- Personal?
- Employer?
- License exception  
BAG/TMP available?



### WHY

#### Why are you taking it?

- To work on it?
- To have ready access to content?
- For internet access?

#### Question

What alternatives are available?



## Pre-Travel Checklist



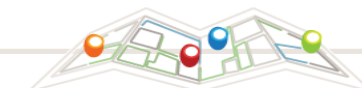
### HOW

#### How are you:

- Securing it when not present?
- Getting online?
- What about dark hotels/dark hotspots?

#### Caution

Encryption fails at international border crossings.



### WHERE

#### Where are you taking it?

Are you aware of all import restrictions including encryption?

#### Question

Is the device and all content cleared for import into all destinations including all stopover/layover countries?

#### Remember

Every export is an import at the destination.

# Cloud Considerations

- Alternative for local storage
- Secure access online
- New intrusion access by border agents
- Plan for countries which outlaw VPN



# Additional Considerations

- Privacy screen
- Burner destruction
- Poison Pills
- USB OSs
- Password training
- Jetpack/Hotspot
- Camera covers
- Battery removal

# Takeaways

- Understand the rights limitations at international border crossings
- Classify all technology to be exported
- Only physically carry that which you can afford to compromise
- Know the rules at all potential destinations
- Craft solutions tailored to the risks

# Building Blocks



# Questions?

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