University of California
2019 Ethics, Compliance and Audit Symposium
REACHING NEW HEIGHTS

International Travel Vulnerabilities

Don Vilfer, JD

Digital Evidence Ventures

Digital Evidence Ventures

Who we are: Reformed lawyers, former FBI Agents, assisted by young Brainiacs.

What we do: Computer Forensics, Cell Phone Forensics, Research Misconduct Investigations, Fraud Investigations and yes, International Travel.

Class Objectives

- Understand the threat landscape of international travel with data.
- Understand the limitations of some solutions.
- Create an awareness of a variety of solutions.

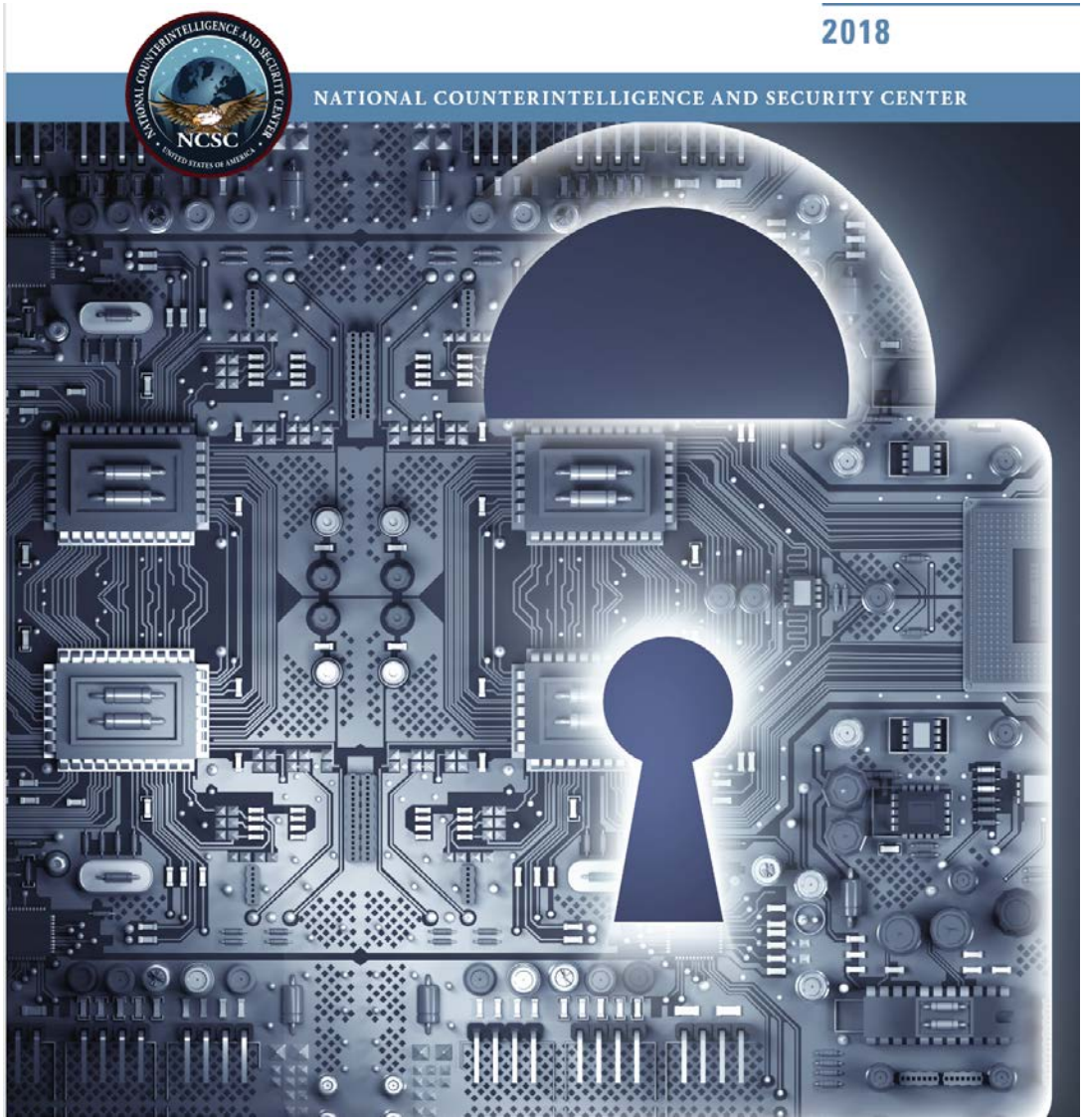
Threats to Your Data

- Foreign Agents
- Thieves
- Hackers
- US Customs

Foreign Agents

Top Countries:

- China (90% of all Economic Espionage)
- Russia
- Iran



Non-Traditional Collectors	China uses individuals for whom science or business is their primary profession to target and acquire US technology.
Joint Ventures (JV)	China uses JVs to acquire technology and technical know-how.
Research partnerships	China actively seeks partnerships with government laboratories-such as the Department of Energy labs-to learn about and acquire specific technology, and the soft skills necessary to run such facilities.
Academic Collaborations	China uses collaborations and relationships with universities to acquire specific research and gain access to high-end research equipment. Its policies state it should exploit the openness of academia to fill China's strategic gaps.
S&T Investments	China has sustained, long-term state investments in its S&T infrastructure.
M&A	China seeks to buy companies that have technology, facilities and people. These sometimes end up as Committee on Foreign Investment in the United States (CFIUS) cases.
Front Companies	China uses front companies to obscure the hand of the Chinese government and acquire export controlled technology.
Talent Recruitment Programs	China uses its talent recruitment programs to find foreign experts to return to China and work on key strategic programs.
Intelligence Services	The Ministry of State Security (MSS), and military intelligence offices are used in China's technology acquisition efforts.
Legal and Regulatory Environment	China uses its laws and regulations to disadvantage foreign companies and advantage its own companies.

While honored to attend…

Dear Dr. Angelica Kokkalis,

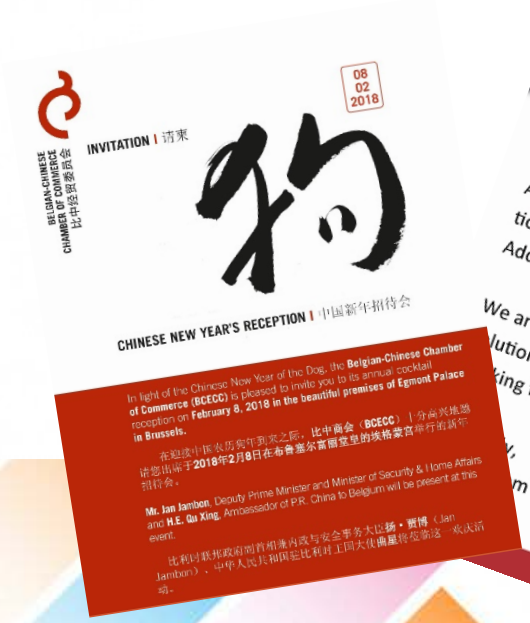
As you know we are planning to have a translational medicine conference in Hangzhou on September 19th, 2015. It is my honor to invite you as one of the speakers in the plenary session of the conference. It will be great If you can discuss the application of Han's acupoint nerve stimulator in the US.
Please let me know if you have any questions. I can be reached at (86)189699 57880
Looking forward to hearing from you.

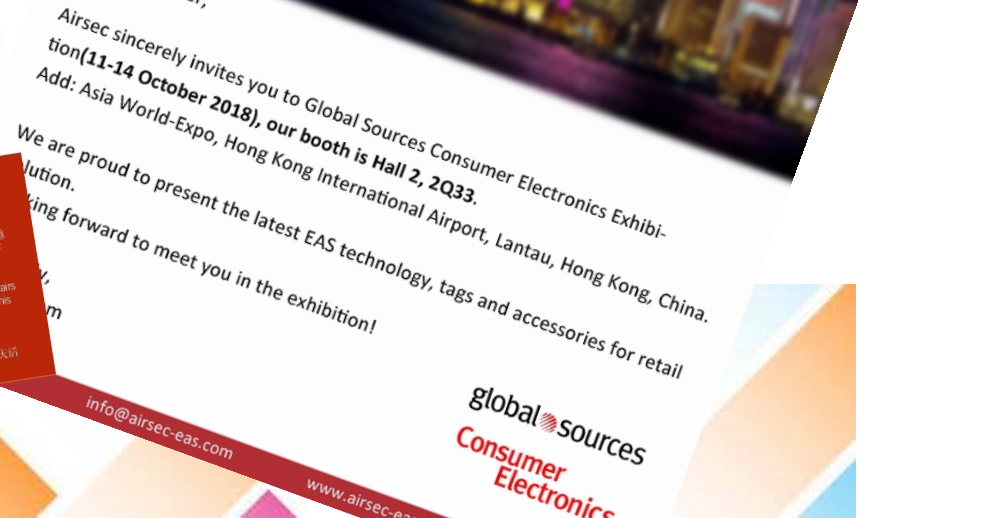
Sincerely yours,

Zengyu Zhang, M.D.

Zengyu Zhang, MD

The organizing committee
First People's Hospital of Xiaoshan
Hangzhou, Zhejiang Province
Peoples Republic of China





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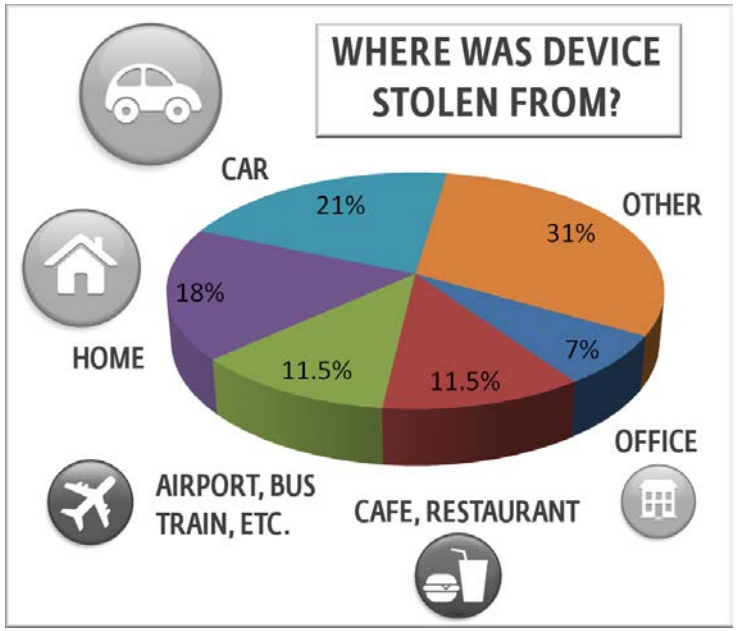
Thieves

- A laptop computer has a 1-in-10 chance of being stolen.
- A laptop is stolen every 53 seconds
- 86% of IT practitioners report that someone in their organization has had a laptop lost or stolen
  - 56% reported that this resulted in data breach
- 52% of business managers leave their laptop with a stranger when travelling
- 45% of healthcare information breaches occur on stolen laptops
- The average total cost to a business from a single laptop loss is US $47,000

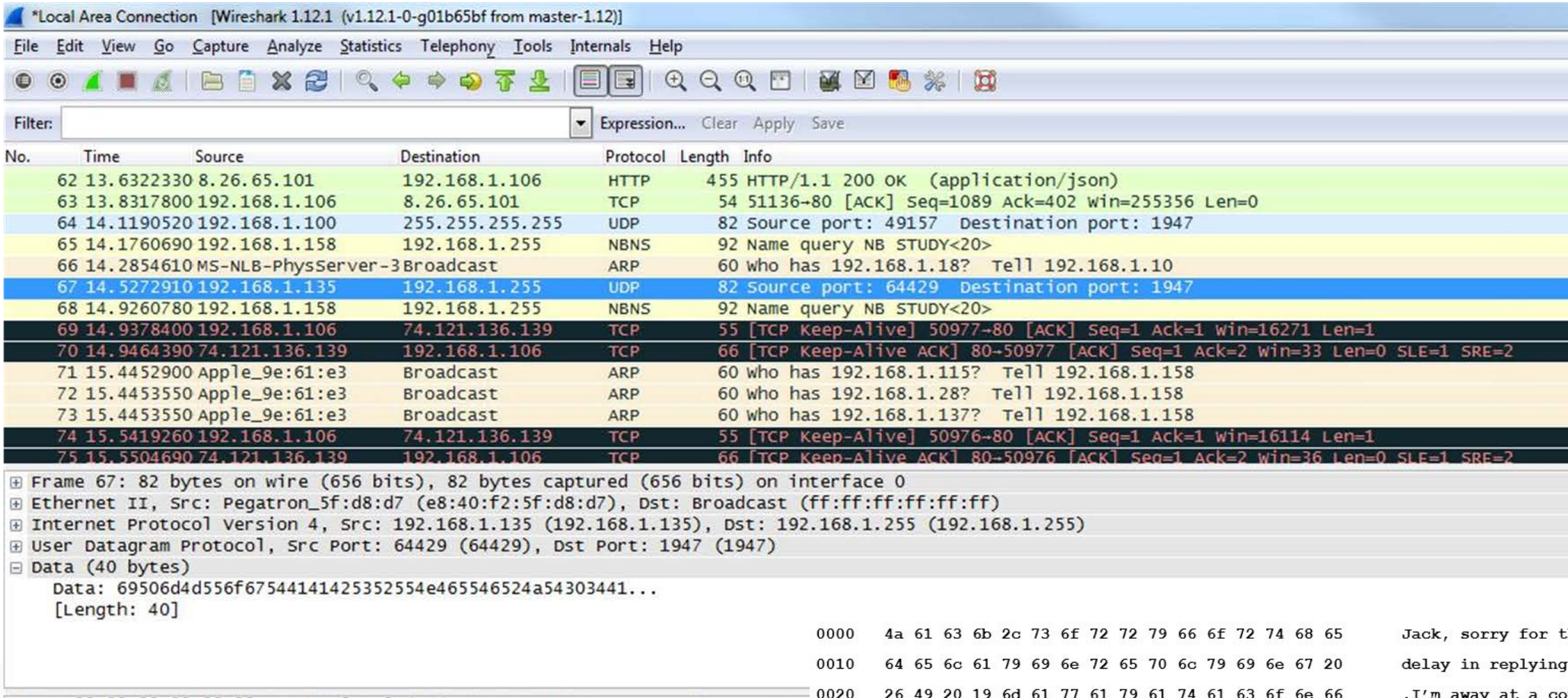


Hackers

How They Do It:

- Free Wi-Fi
- “Security Updates”
- Agent Push
- Malware
- Physical Access while away

Hackers



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US Customs

- Border searches not subject to Fourth Amendment protection.
- 2018 US Customs policy allows agents to continue to inspect information that's stored on a device. But they can't copy that information or connect to an external device to analyze the contents, unless they have ***reasonable suspicion*** of criminal behavior.
- Contraband and how they search for it.
- Controlled information or scientific equipment subject to Export Administration Regulations or Intl Traffic in Arms Regulations.
- A word about other borders…

Limitations of Solutions

- Encryption
- Using the Cloud
- USB drives

More Effective Solutions

- Take a Clean Laptop/Phone
- Do Not Work
- Contact your export control officer before going
- Auditors can raise awareness and ask about a “Clean Laptop Program”

Campus Contacts

- ANR Kathleen Nolan knolan@ucanr.edu
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Resources

Export Control Officers

https://www.ucop.edu/ethics-compliance-audit-services/compliance/international-compliance/campus-contacts.html

CISO's

https://www.ucop.edu/information-technology-services/initiatives/uc-ciso-committee/members-and-staff.html

Questions?

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