



Farhang & Medcoff, Evidence Solutions, Inc. And the Arizona Technology Council

Present:

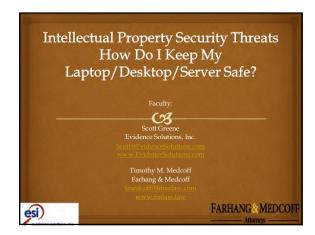
Prevent IP Theft:
Protect Your Most Valuable Assets from Employee and Vendor Theft

January 24, 2018 Courtyard Marriott 201 S Williams Blvd Tucson, AZ 85711, USA

Presented by:

Scott Greene, SCFE, CEO Evidence Solutions, Inc.

<u>Tim Medcoff, Managing Partner</u> Farhang & Medcoff





State Law vs. Federal Law State Law vs. Federal Law You should weigh the pros and cons of State vs. Federal Law Unanimous Jury vs. 6/8 Jurors State of Judgment Differences Stock Difference Compared to the control of the contr

Arizona Trade Secret Act



- Seeks to protect a company's trade secrets from misappropriation
- Trade Secret is information that derives independent economic value from not being known to the public and is subject to reasonable efforts to maintain its secrecy
- May get injunction, damages (actual loss and unjust enrichment), exemplary damages (2x if willful and malicious misappropriation) and attorneys' fees (if bad faith or willful and malicious)

Defend Trade Secrets Act of 2016

- ™ New Federal Law effective May 2016
- ex Employer may file in federal district court seeking relief for trade secret misappropriation used in interstate or foreign commerce
- Seeks to supplement but not replace State Law

Federal Law - DTSA

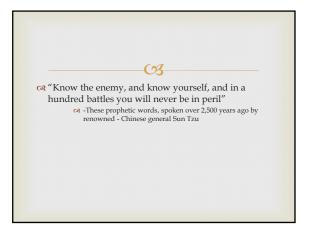


- - Prevent someone from seeking employment for legitimate reasons – experience vs. misuse or misappropriation of trade secrets; or
 - Otherwise conflict with an applicable state law prohibiting restraints on the practice of a lawful profession, trade, or business.

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Federal Law - DTSA ${\color{red} \textbf{ \mbox{$^{\prime}$}}} \ \, \text{Actual loss and unjust enrichment, to the extent not} \, \,$ accounted for in actual loss calculation; or A reasonable royalty for the unauthorized disclosure or use of the trade secret. Federal Law - DTSA Exemplary damages up to 2x the amount of the damages for willful and malicious misappropriation Reasonable attorneys′ fees to the prevailing party if: s the misappropriation claim is made in bad faith; 3 a motion to terminate an injunction is made or opposed in bad faith; or the trade secret was willfully and maliciously misappropriated. Seizure Rights - Heavy Stick; can move ex parte to seize misappropriate info or prevent disclosure

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Tips to Protect IP C3 Limit access to those with a business need to know c3 Store trade secrets and confidential information in physically locked, restricted areas c4 Password protect computers and electronically restrict access to trade secrets and confidential information where appropriate c5 Ensure computer networks are secure from attack c6 Ensure computers (whether such computers travel or not) have encrypted hard drives so information cannot be forcibly removed c6 Enact and enforce data access and cyber-security policies c7 Require employees to sign enforceable restrictive covenants agreements, and ensure such agreements provide the notice of immunity required under the DTSA (otherwise cannot recover punitive damages or attorneys' fees)

First Considerations Response Service Service

First Considerations Suspend Access to and Obtain Passwords From Departing Employees Retrieve all devices issued to departing employees Monitoring and forward restriction?

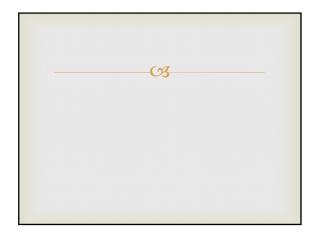
The Insider Threat C3 The insider threat cost is usually much higher than the outsider threat. R Insider mis-use and unauthorized access is one of the top concerns

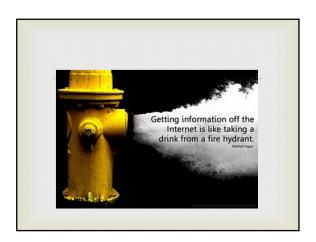
The Insider Threat Solution Non-Technical Indicators Solution Tardiness Solution Conflicts with others Solution Complaints about the job Solution Complaints about the organization Solution Alcohol & Drug Use Solution Overwhelming Debt

Red Flags - Departure Standard drive been altered? Has hard drive been altered? Has the Recycle Bin been emptied? Cleck deleted items Suspicious Software Installation Other evidence of theft? Internet cache showing cloud activity? Connectivity report Forensic analysis?

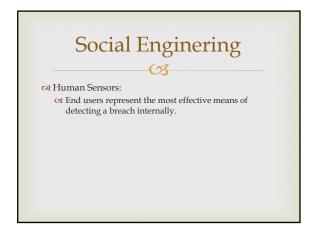
Red Flag Mitigation All Identify and notify all custodians of relevant ESI and other locations so that you can make meaningful informed decisions. As Sequester relevant email accounts and employee devices until you can speak with counsel and your forensics experts. All Identify problem areas for analysis of strategy (missing data, etc.)

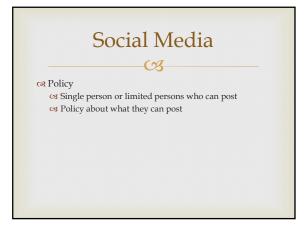
	Prevention Tactics
	C3
CS	Prohibit forwarding
Œ	Prohibit personal data drives
cs	Prohibit storing company data on non-company computers
Œ	Prohibit "wiping" or altering drives
cs	Prohibit installation of personal software

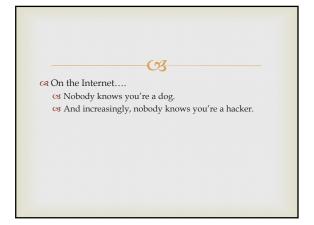












Events & Social Engineering

- Based on history, malicious persons will capitalize
 on these high profile events to collect intelligence,
 distribute spam and/or draw attention to ideological
 causes
- ☼ Some foreign intelligence services will likely use socially engineered spear-phishing emails to masquerade as a trustworthy entity and target individuals affiliated with these events.

Mitigation



cal Train user to be wary of unsolicited attachments, even from people you know - Just because an email message looks like it came from a familiar source, malicious persons often "spoof" the return address, making it look like the message came from someone else.

Mitigation



ca Check with the person who supposedly sent the message to make sure it's legitimate before opening any attachments. This also includes email messages that appear to be from your Internet Service Provider (ISP) or software vendor claiming to include patches or anti-virus software. ISPs and software vendors do not send patches or software in email.

Mitigation ${\color{red} {\rm CR}}$ Teach your employees to trust their instincts s - If email or attachment seem suspicious, don't open it, even if your antivirus software indicates that the message is virus free. № Attackers are constantly releasing "zero-days" and most likely your anti-virus software does not have a signature for it yet. Mitigation 03 ○ Personal Firewalls ☑ Zone Alarm **S** Comodo S Norton Internet Security 😘 Bit Defender McAfee Internet Security 03

Our protected environments CR Classic Perimeter CR Firewall CR ACL (port and web filter) CR IDS / NIPS / HIDS CR Proxy CR Patch Control CR Personal Fire Walls

Limit Administrators

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Rall too often users are granted "Administrator" privileges on networks, servers & workstations. When they do have this access associated with one of their accounts, they tend to use the account with Administrative privileges.

Limit Administrators

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№ Make being logged in as an administrator as annoying as you can

- ☑ No email access
- ⋈ No Web Access
- ${\it cs}\ 1$ minute to lock machine in Screen Saver

Scott Greene: Other topics available Computer Forensics Computer Forensics for Defense Attorneys Computer Forensics for Defense Attorneys Personal Privacy in the Information Age High Technology: Just where is technology going? Bypassing Security: How They Steal Company Data Fundamentals of Digital Forensics Technology Forensics: Theory & Potential... is it Science or Art? Fundamentals of Digital Forensics Fechnology Forensics: Attended Forensics in tellectual property and identity theft Fechnology Forensics: Hardware and Software tools / Show and Tell Fortable Devices Issues and Answers: A discussion about cell phones and the stories they can tell. Anti-Digital Forensics. Or is it Digital Anti-Forensics? Data Security and Confidentiality Issues E-mail: The digital Smoking Gun

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Profiling the Enemy 3. Act of Human Error or Failure 4. Accidents 4. Employee mistakes 4. Compromises to Intellectual Property 4. Piracy 4. Copyright infringement

Profiling the Enemy 3. Deliberate Acts of Espionage or Trespass Unauthorized access

☑ Unauthorized data collection ☑ 4. Deliberate Acts of Information Extortion ☑ Blackmail of information disclosure

Profiling the Enemy 68 6. Deliberate Acts of Theft 68 Illegal confiscation of equipment 69 Illegal confiscation of information 68 7. Deliberate Software Attacks 68 Malware 69 Viruses 69 Worms 69 Macros 69 denial of service

Profiling the Enemy 8. Forces of Nature / natural disasters Fire Flood Farthquake Lightning Quality of Service Deviations from Service Providers Power Connectivity issues

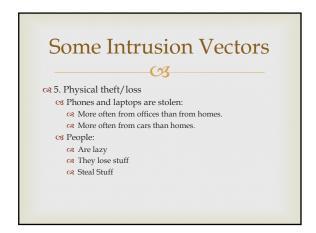
Profiling the Enemy 10. Technical Hardware Failures or Errors 11. Technical Software Failures 11. Technical Software Failures 12. Errors 13. Bugs 14. Code problems 15. Unknown loopholes

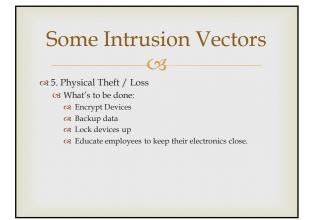
Profiling the Enemy C3 C3 12. Technological Obsolescence C3 Antiquated or outdated technologies

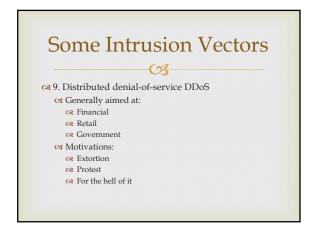
Famous Hacking Events C3 C4 U.S. Weapons Systems C5 Author: Suspected Chinese (Unofficial) C5 Target: Weapons Systems Design

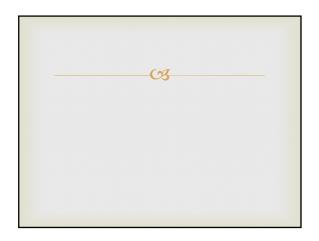
Some Intrusion Vectors 1. Web app attacks 1.

Some Intrusion Vectors A Linsiders A Linsiders A Linsiders A Employees using forbidden devices A Employees using forbidden Services A Employees posing as another user to get a colleague fired A Trust no one.



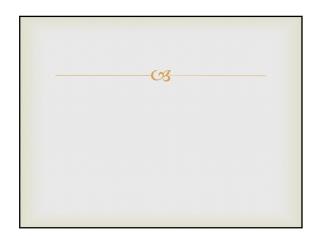






Targeted Attacks CR The new normal RR It is too easy for black hat hackers to collect information cybercriminals are increasingly aiming attacks at: RR Specific populations (users who have a common cause or interest) RR Geographic regions (users within a particular geographic boundary)

Targeted Attacks G3 Groups (users with shared roles or linkages: business functions, shared social habits, user communities, bars they frequent, etc) A single individual (a user chosen for strategic value)





Unauthorized Hardware

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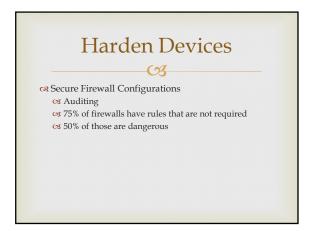
Research to the second systems and a second systems and a second systems and a second systems are attached to networks.

- ™ Do you know what's on your network?
 - Users add things to networks all the time.
 - ☼ Inventory often
 - Control what is attached
 - ☑ Do not hook up a system until it is configured

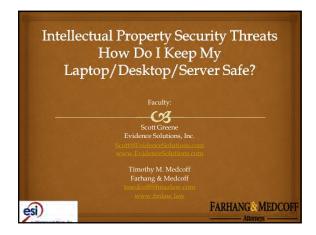
Unauthorized Software

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- № Hackers & Bots are looking for software to compromise as well.
- ™ Do you know what is on your user's machines?
- - ☑ Document all exceptions



Harden Devices Solutions Subsection Subsec





Seminar Evaluation Form

Date:		Poor	Ok	Good	Very Good	Excellen
Was the material	informative?	1	2	3	4	5
2. Was the material	1	2	3	4	5	
3. Was the material	1	2	3	4	5	
4. Was the material	1	2	3	4	5	
	1	2	3	4	5	
5. Was the medium used to present this subject effective?6. The material presented in the seminar will be of use to me.			2	3	4	5
 The material presented in the seminar win se of use to life. The material presented was properly sequenced. 			2	3	4	5
8. Was the speaker	1	2	3	4	5	
_	1	2	3	4	5	
9. The seminar was well worth my time.10. Have you relied on computer forensics in your previous experience?			YES		NO	
12. General impress	sion of material presented?					
13. Why did you at	tend this seminar today?					
14. Would you like someone to contact you about computer forensics?			YES NO			
Name:						
Address:						
Mailing Address: (if different)						
Email:						
Phone:	()	Fax: ()			

Comments may be used on EvidenceSolutions.com. Please let me know if you object.