



How Secure is your Cyber Future?

by

Dane A. Deutsch

CEO/DCS Netlink

www.dcsnetlink.com

ddeutsch@dcsnetlink.com

877-327-6385

A Service Disabled Veteran Owned Small Business Company

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Did You Know?



Did you
Know



2016

jose.esteves@ie.edu

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Rose, Karl Elsch, Scott McLeod

How to Stay Secure in a Dangerous Internet Connected World



Today's Briefing:

- Introduction - Dane & Bobby Blackhat
- Mission Today - ID the enemy & Learn Protection
- Objective-Learn about the Human Factor (Top 3)
- Cyber Landscape - Dangerous + Houdini Concept
- 3 Real World Examples of the Human Factor
- 5 Keys to Strengthen the Human Factor
- Top 3 Keys to better security on the Internet

My Background



- Introduction to Bobby Blackhat
- Dane is a US Air Force Retired Officer
- Last USAF Active Duty Assignment
 - IT Chief of Maintenance for the country of Turkey
 - All wireless in 1980's; first email server; and more
 - Technology in Turkey was more modern than US Today!
- Last 25 years building our IT business
 - DCS Netlink - focused on leading IT with security
 - DCS=Dynamic Cloud Solutions
 - FBI Secured Infragard Members
- www.dcsnetlink.com & www.intersecwi.com

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*Identify the enemy on the Internet &
how to protect against those threats*



Objective

Learn top 3 HUMAN FACTOR threats on Internet & how to protect against those threats

The Enemy may actually be.....



US!

The Enemy may actually be.....



- <https://www.fireeye.com/cyber-map/threat-map.html>
- Our Everyday things we use. Everything is a computer of some type today! (i.e.-refrigerators, freezers, microwaves, televisions, Disney Magic Bands, cars, etc.)
- That means anything and everything can be a target and/or can be used against a target = mechanized cyber war!
- The Bad Guys don't necessarily want your data...they may want just your equipment!
- <https://www.theguardian.com/technology/2016/oct/22/cyber-attack-hackers-weaponised-everyday-devices-with-malware-to-mount-assault>

The Enemy may actually be.....



US!

(i.e.- Leakers, CIA treasure trove of Intel, etc.)

Trust builds Relationships & is the Key to Security!

**Your future is only as secure as you make the choice to BE and
who you Choose to be connected with!**

Make sure you are partnered with a company that leads with Character 1st!

Verify 1st and Trust 2nd!

Social Engineering Hacker



And I can't remember what email address we used to log on to the account, and the baby's crying-

REAL FUTURE

Cyber Landscape Today



- **Dangerous! What if I told you...?**
 - First time in history that the US Government & military can't protect us as citizens
 - 4 Star Generals still can't stand up a Cyber Command
 - Past NSA person says, "Chinese are in every one of our systems....it is only a matter of time."
 - Media has reported government and business being hacked at one time or another (i.e.- US Army, US Senate)
 - Cyber threats are increasing in quantity and severity
- **Houdini Concept - If built by mankind, then it can be broken into by mankind.**
- **HUMAN FACTOR is the Weakest Link!**

FBI Director - Robert Mueller Story of The Human Factor



<https://www.youtube.com/watch?v=M1PzM51JF5s&feature=youtu.be>

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Ubiquity Hacked-\$47 Mil



Hackers siphon \$47 million out of tech company's accounts

A tech company has made an unusual admission to its investors: A hacker posed as one of its employees online and stole \$46.7 million from the company's accounts.

<http://money.cnn.com/2015/08/10/technology/ubiquiti-hacked/>

Cate Machine & Welding



Small Wisconsin Manufacturing Company taken over by Chinese!

And like many small businesses, they have a dusty old computer humming away in the back office. On this one, however, an unusual spy-versus-spy battle is playing out: The machine has been taken over by Chinese hackers.

The hackers use it to plan and stage attacks.

<http://www.nytimes.com/2016/06/12/technology/the-chinese-hackers-in-the-back-office.html>

Closer to Home



- **Barron School District**
- **Barron County**
- **Businesses with Ransomware**
- **We can't continue to act as if Nothing has Changed!**



Top 3

HUMAN FACTOR threats

*(on Internet & how to protect
against those threats)*

1. Your **Beliefs**: that you are not hackable or have nothing anyone would want!
1. **Passwords**: Lastpass & 2 Factor Authentication (i.e.- MFA or 2FA)
1. **Social Engineering**: Scareware/Phishing/Vishing/Smishing (SMS Phishing)

5 Keys to strengthen Human Factor



1. **Beliefs:** Firewalls & Antivirus are good enough - NOT!
 - a. Hardware - physical box
 - b. Software - application (i.e.- Norton, McAfee, Sophos)
 - c. BUT, they WON'T stop everything. We each still need a firewall & Anti-virus!
2. **Passwords**
 - a. **Lastpass** - Free & automates strong passwords for use
 - b.2 **Factor**
 - i. 2 of 3 Factors to be secure
 - ii. Turn it on everywhere (i.e.- FB, Twitter, Amazon, Banks)
3. **KnowBe4** you click - **Social Engineering**
 - a. Phishing/Vishing/SmShing - links & attachments in emails/calls/Text Msgs
 - b. Mouse over the address
 - c. Delete if not expected-(i.e.-Microsoft pop-ups, wrong time)
4. Browsers - Google-Chrome/Mozilla-Firefox/Apple-Safari
5. **Do NOT use free WIFI!** (i.e- Culver's, Panera, Caribou, etc.)

Tiger Team



MISSION



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“US - You and I”

WE are The Human Factor

WE are the GREATEST THREAT!

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