

Cybersecurity



AMERICAN BUS ASSOCIATION

FBI John
The Voice of Cyber & Security



FBI John

Why Listen To Me?



FBI John

Street Price Stolen Internet Items

Item	Percentage	Price
Bank Account Number	23%	\$10 - \$1,000
Credit Card Number	13%	\$0.40 - \$2.00
Full Identity	9%	\$1 - \$15
Online Auction Account	7%	\$1 - \$8
Email Addresses	5%	\$0.83/MB - \$10/MB
Email Passwords	5%	\$4 - \$30



Surface Web



Academic information

Government Resources

Deep Web

Hacker's

illegal Porn

Dark Web

TOR-Encrypted Sites

illegal information

Browse Categories

<input type="checkbox"/>	Fraud	5517
<input type="checkbox"/>	Accounts & Bank Drops	2887
<input type="checkbox"/>	CVV & Cards	991
<input type="checkbox"/>	Dumps	242
<input type="checkbox"/>	Other	784
<input checked="" type="checkbox"/>	Personal Information & Scans	613
<input type="checkbox"/>	Drugs & Chemicals	11416
<input type="checkbox"/>	Guides & Tutorials	2219
<input type="checkbox"/>	Counterfeit Items	711
<input type="checkbox"/>	Digital Products	1841
<input type="checkbox"/>	Jewels & Gold	278
<input type="checkbox"/>	Weapons	284
<input type="checkbox"/>	Carded Items	395
<input type="checkbox"/>	Services	1296
<input type="checkbox"/>	Other Listings	425
<input type="checkbox"/>	Software & Malware	238
<input type="checkbox"/>	Security & Hosting	104

Search Results [\[Save Search\]](#)



[FE 100%] + USA PROFILES SSN/DOB/DL/BANK + FREE CC/CVV+
Item # 2451 - Personal Information & Scans - wakawaka (1443)

Views: 15400 / Bids: Fixed price
Quantity left: Unlimited (503 automatic items)

Buy price
USD 1.50
(0.0054 BTC)



EVOscans custom made scan
Item # 1092 - Personal Information & Scans - Battalion (348)

Views: 6635 / Bids: Fixed price
Quantity left: 2

Buy price
USD 34.23
(0.1238 BTC)



+USA CC WITH KNOWN BALANCES + - [500 \$-40.000 \$]
Item # 8477 - Personal Information & Scans - SPARTANZ (663)

Views: 4858 / Bids: Fixed price
Quantity left: Unlimited

Buy price
USD 0.00
(0.0000 BTC)



Personal Inforamtion +
Item # 241 - Personal Information & Scans - Boomstick (257)

Views: 4822 / Bids: Fixed price
Quantity left: Unlimited

Buy price
USD 1.00
(0.0038 BTC)

Cyber Threats to Transportation

“Transit Seeing More Cyber Threats”

- August 2023 news article

180% increase in ransomware attacks

Increase entry points for attacks

- onboard Wi-Fi
- autonomous vehicles
- contactless tickets
- vehicle location technology

Cyber Threats to Transportation

“Advances in technology increases cyber concerns”

- Mineta Transportation Institute

IT not enough

- CISO
- Written policies
- Enterprise risk management strategy

Cyber Threats to Transportation

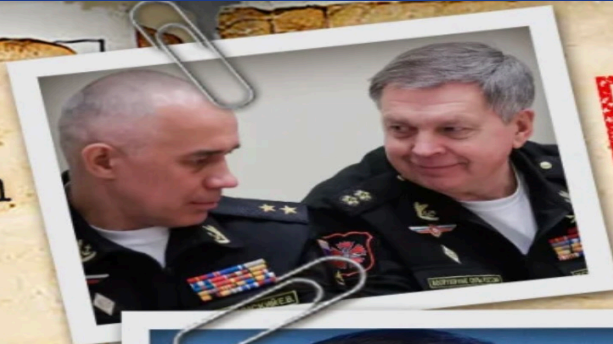
Vendors

- Transportation must understand risks
 - current/future vulnerabilities
 - hardware/software
 - criminals taking control
- Vendor policies must align w/ cyber needs
 - Procurement should articulate

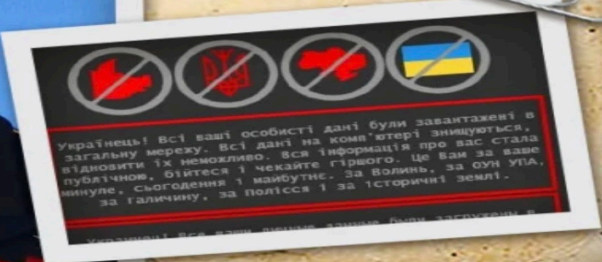
Cyber Terrorism

RUSSIA CYBER UNITS

- **Estonia hacks (2007)** widespread attacks on newspapers, banks and government ministries
- **US Presidential election (2016)** interfered in hopes of influencing election outcome
- **SolarWinds hack (2020)** exposed data of major firms such as Microsoft and top government agencies



28N
DECLASSIFIED



How Vulnerable Is Your Computer?

**First time computer
connected to Internet,
how long before it is
compromised?**

5 MINUTES

Cost of Data Breach

Last year worst on record

15.1 billion records compromised

1,580 reported breaches

ID Theft Resource Center

U.S. Average - \$8 million

\$242 per record

Ponemon

Capital One Breach

100 Million Records

52% Businesses Defenseless Against Cyber Attacks

net-security.org

FBI John

55% of IT and security professionals zero or low visibility

Employee behavior

Application access

Software downloads

Cyber Attacks

Identity Theft

Phishing

Ransomware

IOT

AI

Email Compromise

Mobile

Travel



Identity Theft

Identity Theft Annual Loss \$52 Billion

By Cyber Security Market

According to the Federal Trade Commission (FTC) estimates in 1 year, as many as 10 million people discover that they are victims of some form of identity theft, translating into reported losses exceeding \$52 billion.

A recent report of Market Research Media [U.S. Federal Cybersecurity Market Forecast 2010-2015](#) predicts that the Federal government will spend \$55 billion over the next five years to fight cyber crime.

The loss of personally identifiable information, such as an individual's Social Security number, name, and date of birth can result in serious harm, including identity theft. Identity theft is a serious crime that impacts millions of individuals each year. Identity theft occurs when such information is used without authorization to commit fraud or other crimes. While progress has been made protecting personally identifiable information in the public and private sectors, challenges remain.

1 in 4 victims

Synthetic ID



Phishing

From:  United States District Court [subpoena@uscourts.com]
To: Steve Kirsch
Cc:
Subject: Subpoena in case #28-755-YCH

AO 88(Rev.11/94) Subpoena in a Civil Case



Issued by the
UNITED STATES DISTRICT COURT

Issued to: Steve Kirsch
Propel Software Corporation
408-571-6300

SUBPOENA IN A CIVIL CASE

Case number: 28-755-YCH
United States District Court

YOU ARE HEREBY COMMANDED to appear and testify before the Grand Jury of the United States District Court at the place, date, and time specified below.

Place: United States Courthouse
880 Front Street
San Diego, California 92101

Date and Time: May 7, 2008
9:00 a.m. PST

Room: Grand Jury Room

20,000 Recipients
1,800 Victims

FBIJohn

Ransomware



Crypto

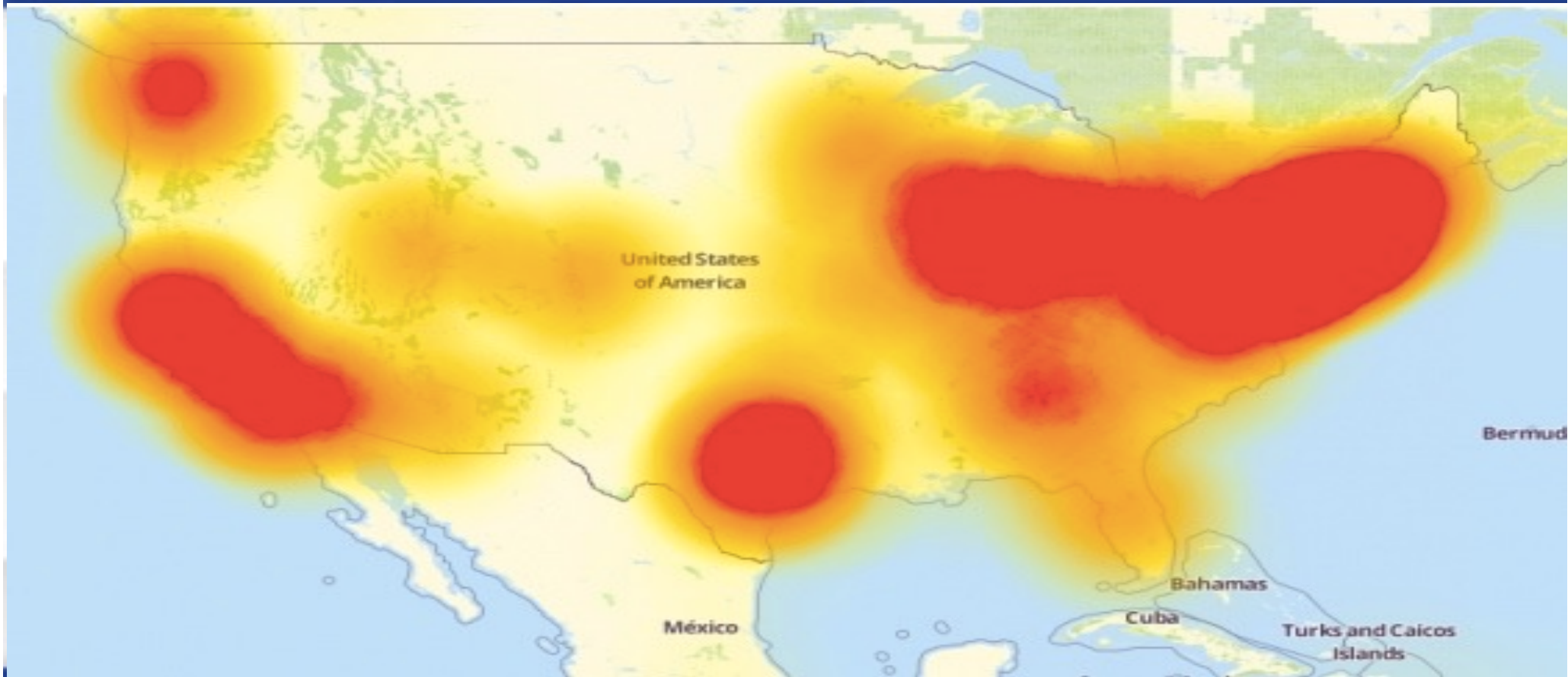
Locker

Spearware

Leakware

\$20 Billion in damages

Internet of Things



75 billion connected devices

FBIJohn

Artificial Intelligence

3 Types

Narrow - chess

General – human mind

Super Intelligence – smarter than human brain

AI

AmericanAirlinesCustomerRelations@aa.com
About your Recent Flight: A Message from American Airlines
To: John Iannarelli <john_i@me.com>

July 12, 2023 at 9:30 AM

American Airlines 



July 12, 2023

Hello John:

On behalf of American Airlines please accept my sincere apology for the inconvenience you experienced as a result of the delay of your flight AA6003 on June 26, 2023. We realize your flight experienced an extended tarmac delay. When disruptions do occur, we will do our best to minimize your inconvenience and we are sorry it was not so on this occasion.

We remain committed to operating safely and reliably. In appreciation for your patience and understanding, we have added 25,000 bonus miles to your account. You should see this mileage adjustment in your account very soon.

We would like to assure you that we are committed to getting you to your destination as planned. Above all, we appreciate your business and look forward to serving you on a future American Airlines flight.

Sincerely,

Customer Relations
American Airlines

FBI John

AI

To: AmericanAirlinesCustomerRelations@aa.com ▾

Cc:

Bcc:

Subject: Re: A Message from American Airlines



From: John Iannarelli

Signature: None



Dear Sir or Madam - thank you for the 25,000 Award miles based upon the cancelation of my flight due to weather. I understand it was a situation beyond the airlines control and, while I have no complaint regarding the matter, I appreciate generosity.

Sincerley, John i.

FBI John

AI



AmericanAirlinesCustomerRelations@aa.com
Your Response From American Airlines
To: John Iannarelli

Inbox

American Airlines 



July 13, 2023

Hello Mr. Iannarelli:

As an AAdvantage® member, your business means a great deal to us. With that in mind, we received your complaint and would like to offer you an additional \$120 Trip Credit for your canceled flight. I hope this helps to make amends.

We appreciate your loyalty and look forward to welcoming you on board your next American Airlines flight.

Sincerely,

Customer Relations
American Airline

FBI John

AI

To: AmericanAirlinesCustomerRelations@aa.com ▾

Cc:

Bcc:

Subject: Re: A Message from American Airlines



From: John Iannarelli

Signature: None



Dear Sir or Madam - thank you for the \$120 in Trip Credit in addition to the 25,000 Award miles based upon the cancelation of my flight due to weather. My last email was only to express appreciation and I had no complaint regarding service. Thank you and I consider this matter concluded.

Sincerley, John i.

FBI John

AI

 AmericanAirlinesCustomerRelations@aa.com
Your Response From American Airlines
To: John Iannarelli <john_i@me.com>

 Inbox

American Airlines 



July 13, 2023

Hello Mr. Iannarelli:

As an AAdvantage® member, your business means a great deal to us. With that in mind, we received your complaint and would like to increase our offer to a \$160 Trip Credit for your canceled flight. I hope this helps to make amends.

We appreciate your loyalty and look forward to welcoming you on board your next American Airlines flight.

Sincerely,

Customer Relations
American Airline

FBI John

Business Email Compromise

FBI report for last year:

22,000 U.S. businesses victim


\$2.4 billion

270% increase from prior year

Example: Spoofed Email

- John@FBIJohn.com
- John@FBIJohn.com

Mobile Devices

 To: +1 (424) 246-8156



Text Message
Today 10:05 AM

Steve, I'm Kathy's mom. When do her piano lessons start?

Today 1:54 PM

You are throwing good money away. Please stop bringing your daughter to piano lessons.

FBIJohn



**ROSSEN
REPORTS**

WebCam Monitor Trial Version
Please Purchase



Travel Security

DURING

- Use RFID credit card holder
- Don't leave devices unattended
- Use privacy screen
- Avoid public Wi-Fi
- Hotel safe

AFTER

- Update devices
- Change passwords
- Backup data
- Remove apps
- Check credit card statements

FBI Investigation

Cyberattack of Mass Transit

Attack

“RIPTA paid Hackers \$170,000”

- news report

Rhode Island Public Transit breached

Attack

- Breached by Russian hacker
- Ransomware attack
- Payment to restore operations
- Victims not immediately aware



End Result

- 22,000 employees PII stolen
- Passenger info compromised
- Cost of repair, restitution, credit monitoring
- Impact to employee and consumer confidence

Reality of Breaches

- 25 % Cyber
- 75 % Insider Threat
- 1 in 8 employees pose high level of risk
- Average cost \$1.4 million per organization

Answer: Policies and Education

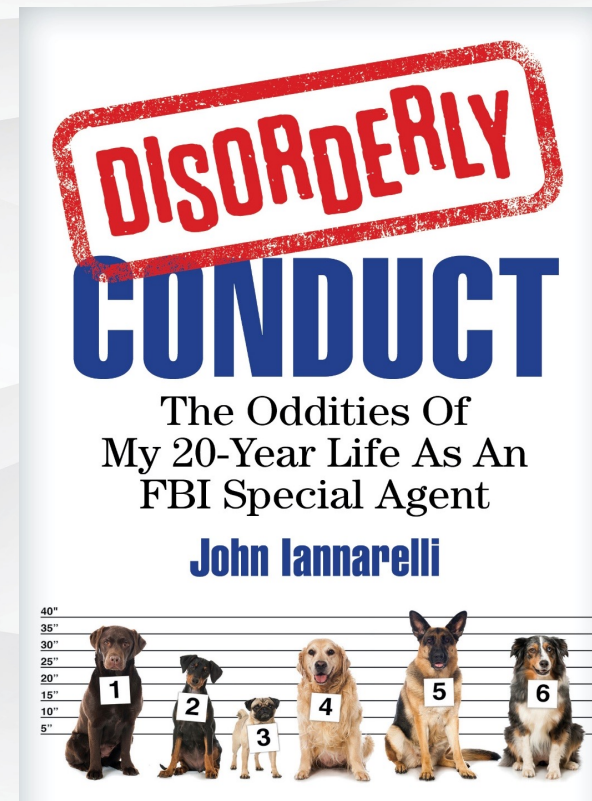
No Policies Can = Lawsuits

- TJ Max, Home Depot, Target
 - Hack of customer bank info
- Sears/Kmart “Loyalty Club”
 - Spyware on customer computers
- Eli Lilly
 - Disclosed e-mail addresses in Prozac reminder

Cyber Safety

- Strong Passwords – Password Keeper
- 2 Factor Authentication
- Backup
- Cyber Insurance
- Fully Managed Recovery
- Outside Monitoring

Amazon



Business Reality

**It is no longer a matter
of if, but when...**

And how you will respond !



FBI John

The Voice of Cyber & Security

SPEAKER | AUTHOR | CONSULTANT

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FBIJohn