

IT Security Update



JAMES JUMES
PARTNER
AAFCPAS



VASSILIS KONTOGLIS
AAFCPAS
BUSINESS & IT ADVISORY
MANAGER

Security Update

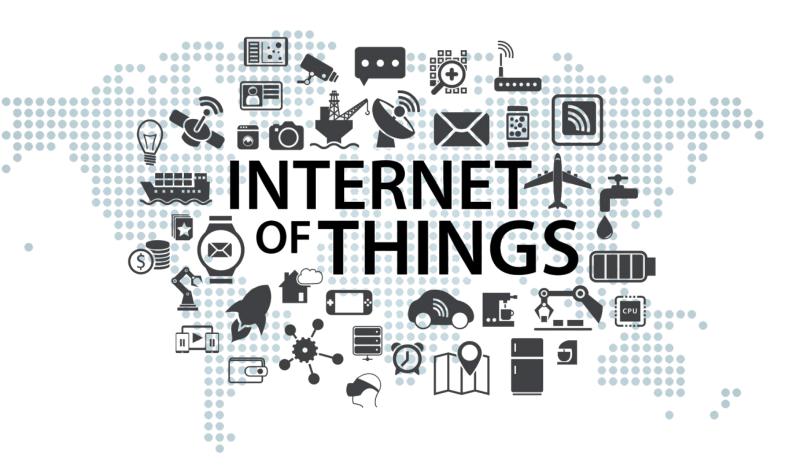
Internet of Things IoT

Vassilis Live from the North America CACS 2017

IT Security and Audit Conference

Wireless...Secure or Not Secure?





IoT - What is It?

So, what is IoT?

• It is the connectivity and exchange of data among "smart" devices. "Smart" is used to identify the fact that those devices have the capability to collect data via different input methods, and then send that data to processing "brains" for analysis. Based on certain algorithms, the device then responds.



IoT - What is It?

Examples Home

- Car- service scheduling and monitoring
- Fitbit- health tracking
- Refrigerator or dishwasherperformance issue or tells you to buy milk
- Thermostat- controls heating and cooling based on occupancy
- Baby monitor- check in on junior
- Hot water heater- vary temp or vacation mode

Examples Office

- The vending machine in your office
- Internet based wireless phones
- Printers
- Alarm systems
- HVAC systems
- Lighting automation
- Electric and gas metering
- Health monitors- for insurance premium reduction

"Estimate of 26 Billion connected devices by 2020"

- Gartner



IoT – Does This Look Familiar?

Things
Cell Phone

Thermostat

Gateway

Home/Work Router

Network (oh Boy)

Applications

Financial Applications
Personal Data



















How Complex are the admin/user passwords?





Default Accounts (Admin and Manufacturer)





Is it a blessing or curse?



Communication Protocols – Encryption

What standards are used? Are they secure?





Software for some of those devices is low quality.





Where is the data going and who has access to it?



Assess! Assess! Assess!

Know your environment.

Assess what the risks are and plan accordingly.



Be Up to Date with Patching

Minimize the risk of penetration.



The Most Current & Secure Ways to Communicate

Minimize the risk of interception...



Segregate IoT Devices from Other Systems

If an IoT device is hacked, the damage is contained...



Perform Vulnerability & Penetration Tests – Phishing

Discover your environments holes before hackers do... Run, at minimum, annual drills...



Educate / Inform

Train your organization on the latest trends...



LIVE From North America CACS 2017 Computer Audit, Control, and Security



VASSILIS KONTOGLIS
AAFCPAS
BUSINESS & IT ADVISORY
MANAGER

Wireless- Secure or Not Secure?



AAFCPAs' Mr Anderson was recently sent to Starbucks.

What WIFI did you sign into today?

Logging onto Marriott's WIFI also exposes you.

Questions & Comments



JAMES JUMES
PARTNER
AAFCPAs



VASSILIS KONTOGLIS
AAFCPAS
BUSINESS & IT ADVISORY
MANAGER

774-512-4062 jjumes@aafcpa.com 774-512-4069 vkontoglis@aafcpa.com

