Why Networks Still Matter

Tim O’Neill
Location
KSUC 300

Disciplines
Information Security | Management Information Systems | Technology and Innovation

This event is available at DigitalCommons@Kennesaw State University: https://digitalcommons.kennesaw.edu/ccerp/2018/industry/5
Why Networks Still Matter?

By: Tim O’Neill
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Main Reason

• Simply we are addicted to information and access – IAD – Internet Addiction Disorder

• The Network is the new Religion!
  – Everybody Believe’s
  – Even with -
    • Threats
    • Corruption
    • Information lost
    • $Billions/yr loss to fraud, social media time loss..etc
    • Social and Emotional issues
  – Plus - It is just COOL!

KSU Proceedings on Cybersecurity Education, Research and Practice, Event 5 [2018]
Question

• How many of you, in this group, have an addiction disorder of any kind?
Stats – Not so good!

• 80+% say that they are addicted to the internet (35 under)
• 50+% leave their computer on - in their bedroom 24 hours a day
  • Loss of privacy
  • Loss of innocence
    – * camera is very easy to hack for remote viewing
• 75%+ keep social media info updated daily
  • Some every minute – some apps do it for you?
• Big issue - Criminals can stay hidden
  – You total life can be stolen or destroyed
• Dis-Information can cause social disorder WW
The Good

• Information!!!
• Beauty
• Never should feel alone
• Sharing
• Expansion of society and social values
  – Not always good (however)
• Staying in touch for safety
• Many GOOD things.
• Many believe that the Internet has stopped wars
Networks are NOT going away

- IPv6 – Not realistic
  - Need mitigation technology
  - Cost to force migration many $ Trillions
  - Too Many Standards – Not feasible
- More IoT – Unmanageable
  - Not the best reliability and safety, yet
- Passing more information at thousands of times faster
- Access to more types of data sets
  - More aggregated mathematical data sets for information types
The Network of tomorrow

• More information in smaller file sets!
  – All your PII and relevant data can be stolen in less than 30 seconds.

• More threats –
  • Physical
  • Financial
  • Reputation
  • Loss of privacy
  • More addiction

• More control of environment

• Less physical contact vs more virtual contact
If Networks are Not going away!

- We need to get smarter –
  - Protect our data
  - Protect our children's data
  - Protect our Families
  - Manage our “REAL” lives
  - Learn how NOT to be spoofed/scammed
  - Call for more laws and punishment for criminals WW
  - TAKE RESPONSIBILITY – Like locking your car/house
Real Big Needs!!!

- International Laws
- Much Better - Methods of digital data protection
  - Time to live methods
  - Better encryption
- More International Law Enforcement focus
- Better methods of detection
- Better training for network Security Professionals
- Forensic training and methods
  - Evidence chain
  - Evidence preservation
- A Focus on Protection
A look back

Before the Internet
Yesterday

O'Neil: Why Networks Still Matter
Today – Everything but physiology

In one small file - everything on you!
In less than 30 seconds I can know all I need to know about you!

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Looking forward to the future
When a thought will be our connection!