

7x24 Exchange Delaware Valley Chapter

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*Thank You
To Our Host!*



tierpoint

90th Meeting

**7x24
Exchange**

Delaware Valley Chapter

New
TECHNOLOGY SPOTLIGHT

Air Sampling Detection



Fire & Explosion Protection

Jerry Krause
Sales Manager



Today's **Mission Critical Facilities** are running faster and hotter than ever. The air changes per hour are much higher than those we dealt with before the ".com" era. This creates a concern for the typical smoke detectors being able to handle the air flow. Air sampling detection systems not only can handle the air flow but also provide pre-alarm levels that can detect smoke long before the human eye will identify the smoke.



New
TECHNOLOGY SPOTLIGHT

Server Rack Protection

We are now seeing more customers with small server closets or remote server locations where installing a total flood fire suppression system is not an option. Technology now allows you to install a system inside the server that provides direct detection and suppression inside the rack.



Loss of Power is every data centers nightmare! EPSMS Panel helps eliminate the concern for an unscheduled shutdown.

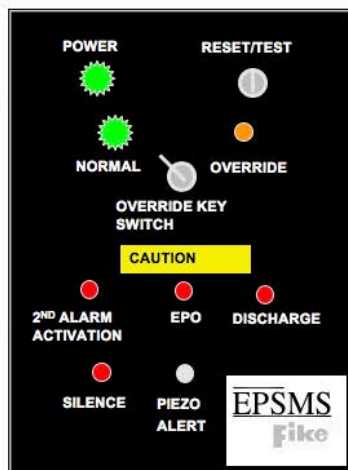
INPUT Signals



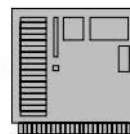
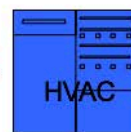
Fire Control Panel



Emergency Power Off Switch



OUTPUT Controls



Power Equipment



**Secure. Connect.
Transform.**



Paul Mazzucco **Chief Security Officer**

As TierPoint's Chief Security Officer, Paul Mazzucco is responsible for all corporate standards governing physical, information and network security. He also leads the charge in acquiring and maintaining all industry-specific compliance certifications, including PCI, ISO, NIST, HIPAA, and Federal security standards.

Paul has spent years developing and testing behavior-based information security policies, information security best practices, disaster recovery/business continuity plans, and forensic services for clients representing multiple industries. A veteran of the IT security market, his background includes security entrepreneur and defense contractor. Paul has successfully trained with multiple government agencies and become an expert in security standards and system hardening. He also helped spin off Cobalt Computers as a standalone corporation, which grew into one of Pennsylvania's largest IBM integrators, serving the Department of Homeland Security, the FBI, the Department of the Navy, NSA, and the Department of Defense. Paul joined TierPoint through its 2014 acquisition of X and, where he also served as Chief Security Officer.

Paul completed his undergraduate work at Lehigh University. He is a Certified Information Systems Security Professional (CISSP), Microsoft Certified Systems Engineer (MCSE), and Certified Ethical Hacker (CEH), working with the FBI, the United States Secret Service and the United States Computer Emergency Readiness Team (U.S. CERT).

Advanced Methodologies For Data Protection



Starting Points

- ♣ What is the Dark Web?
- ♣ How is it accessed?
- ♣ How do hackers use it to purchase attacks?

The Double-Edged Sword of Artificial Intelligence

- ♣ How does AI make attacks more effective?
- ♣ How can AI fortify protective infrastructure?

The Next Frontier in Attack Mitigation

- ♣ Machine learning
- ♣ Behavioral models

The (Still) Irreplaceable Human Role





Custom Attacks

Each attack vector can be extensively analyzed prior to attack launch, allowing AI to learn environment, create a custom attack for each victim

Advanced Evasion

Once launched, AI can coordinate data from past attacks to allow for more advanced and automated evasion techniques

Automated Malware Testing

Phishing attacks, malware infestations can be modeled in an AI lab thousands of times an hour to test + refine effectiveness

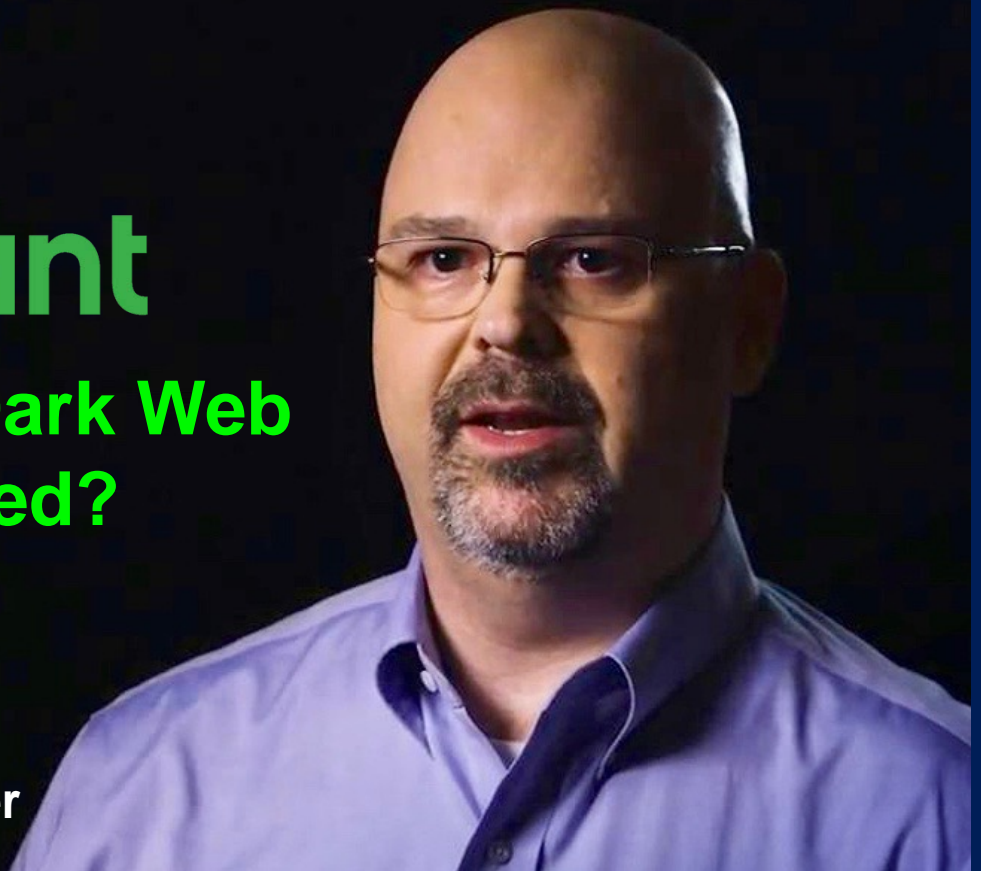
Sniper Focus

Once an attacker gains access to victim's environment, advanced AI can quickly scan and find exact file type or embedded content attacker is seeking, saving both time and compute cycles



How is the Dark Web Accessed?

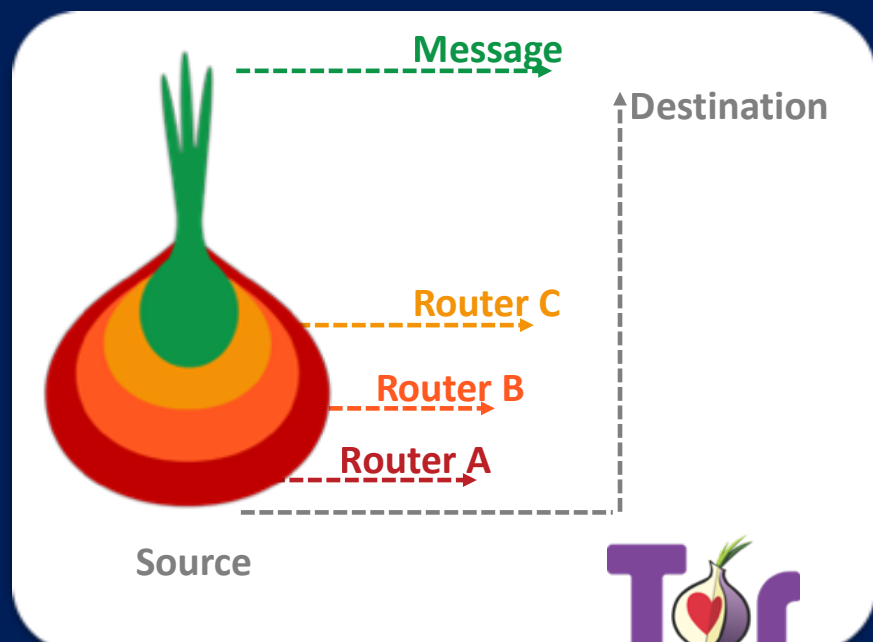
Paul R. Mazzucco
Chief Security Officer



“The Onion Router” or TOR

- Data is encapsulated in layers of encryption
- Each layer only reveals the next relay
- Almost unlimited relays are available
- Only issue is latency
- Final layer sends data to destination
- Bi-Directional

“We always
thought his
intelligence was
artificial.”





Buying and selling of illegal wares on the **Darknet** is made possible because of **cryptocurrency**. Cash mandates personal interaction and exposure. PayPal is a paper trail nightmare, as are credit cards.

There are currently more than 20 variants of cryptocurrency that sell or trade at more than \$1.00

Most popular variants are ...

- Litecoin (**LTC**), launched in 2011, was among the initial cryptocurrencies, following Bitcoin, and was often called 'silver to Bitcoin's gold'
- Ethereum (**ETH**)
- Zcash (**ZEC**)
- Dash
- Ripple (**XRP**)
- Monero (**XMR**)





Paul R. Mazzucco
Chief Security Officer

Worldwide Security Expert





**Secure. Connect.
Transform.**



Benjamin Mitten, P.E
Vice President Operations
Mid-Atlantic Region

Ben Mitten graduated from The Pennsylvania State University with a Degree in Architectural Engineering focusing on Power Design of Building Systems. Ben is a licensed Professional Engineer. After graduation Ben spent 9 years in consulting engineering focusing on electrical design and construction for many types of projects including Data Centers, Casinos, Hospitals, and Commercial Buildings. Ben joined TierPoint in 2013 as a Facility Engineer in charge of the electrical infrastructure and construction projects. Ben was the designer, project manager, and construction coordinator for major projects in the TierPoint Pennsylvania Portfolio. In January, Ben was named Vice President/General Manager of TierPoint Pennsylvania. Ben is responsible for all aspects of the TierPoint Pennsylvania Portfolio.

Sales Always Asks - How Fast Can You Build a Data Center

Benjamin Mitten, P.E

Vice President – Operations Mid-Atlantic Region



Teamwork - Owner drives decisions at design table and team reacts on the spot.

Owner Involvement - With the critical nature of our business, our involvement is a necessity. Design-Build gives us this opportunity to the greatest extent.

Collaboration - TierPoint requires collaboration to design and construct our projects.

Communication - Design-Build approach keeps the communication open and upfront between designers, owner, CxA, and construction team

Time Savings - Team is able to make decisions on the spot, provide direction and move forward from that point.



TierPoint is a data center company built through the merger and acquisition of 15 companies

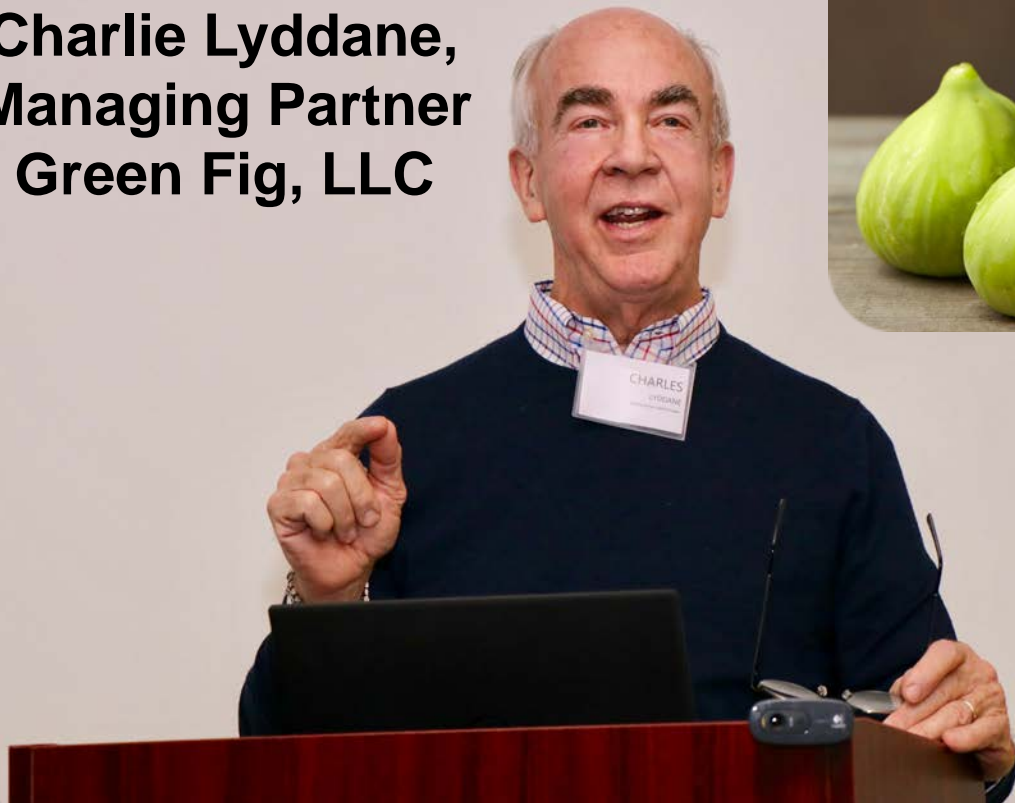
Master Planning

Potential for high density racks to be installed at site 45-50KW per rack #1 Requirement

Needs to be Scalable – without the scalability, we wouldn't be able to deliver data centers in 4 months



**Charlie Lyddane,
Managing Partner
Green Fig, LLC**





Internet Security Threats





Fire & Explosion Protection



DATA CENTER WORLD
AFCOM











PENN POWER GROUP
DETROIT DIESEL • ALLISON • CARRIER • FLEET SERVICES

 **BOON EDAM**







Matt Donnelly







**President and
Chief Executive
Officer of
Business
Information
Services (“BIZ”),
a technology
services and
consulting
company
providing
services to
clients including
Fortune 500
Companies.**

Bob Cassiliano





Bob Cassiliano

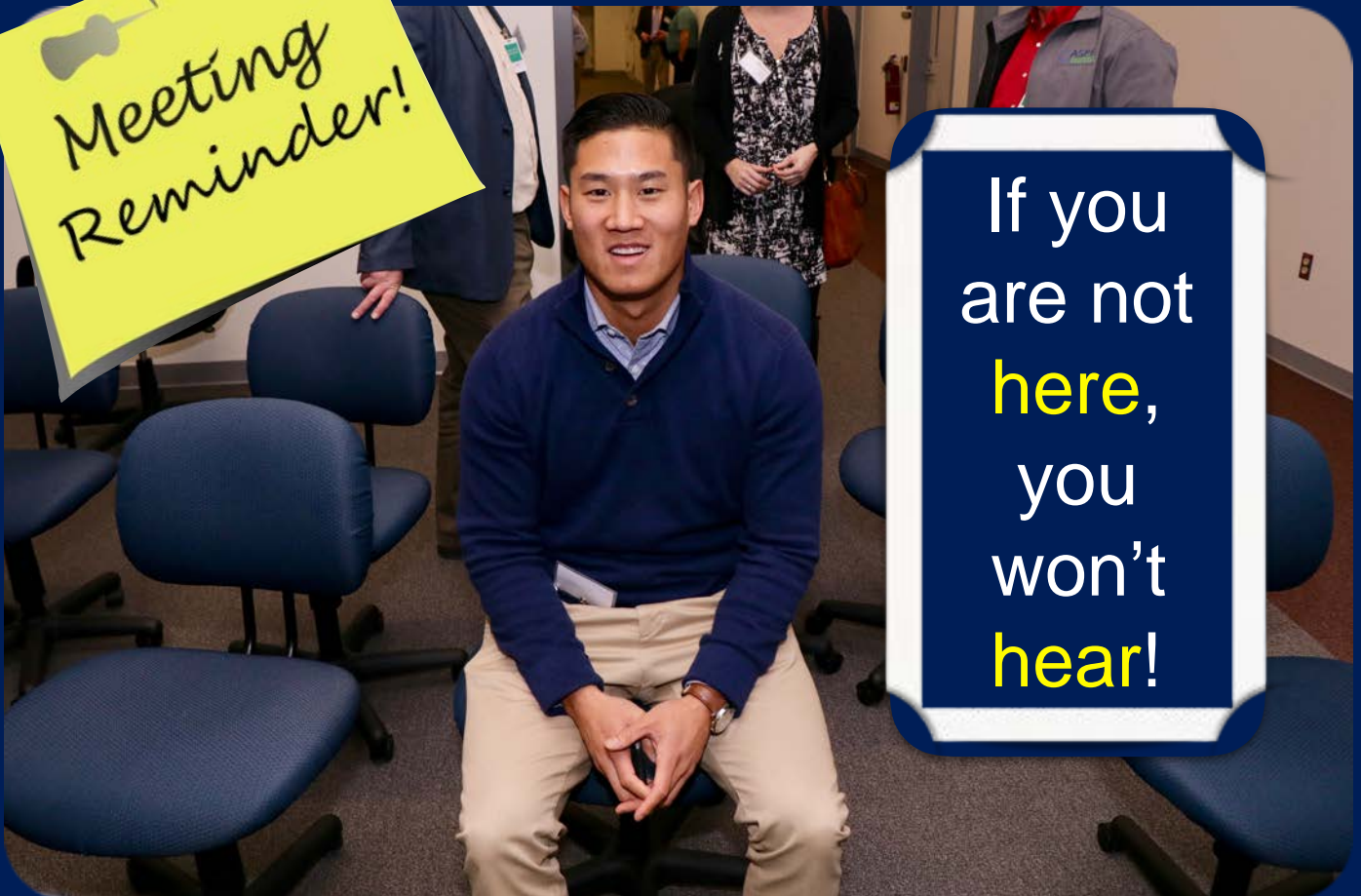


*wise people
never stop
learning*



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Meeting
Reminder!



If you
are not
here,
you
won't
hear!





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Delaware Valley Chapter



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SECURITY THREATS ARE EVERYWHERE.