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SIAWEBINARS
Info for the Security Industry
Best Practices for Monitoring Cyber Threats to Security Solutions
Feb. 4, 2020

Best Practices for Monitoring Cyber Threats to Security Solutions

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Introducing your speakers

Stephen Schwartz,
Vice President of
Development,
Razberi Technologies

Stephen Schwartz currently leads the software design and product development efforts for all Razberi products and has over 30 years experience in high-growth software and hardware companies.

His previous roles include CTO of RFID Global Solution where he led the design and development of products like Visi-Trac asset visibility and Genesta's SyVox voice recognition logistics solution for companies like PepsiCo, Sara Lee / Bimbo, and QuikTrip. Schwartz has also served several roles within Intermec as the Director of Product Management, Systems Engineering Manager, and Senior Systems Architect for their RFID hardware and software business unit fielding solutions to hundreds of Fortune 100 companies globally. In his spare time, he is a contributor and voting member of ETSI EN 302-208, and ANSI X3T6.

Schwartz has a bachelor's degree in Electrical Engineering from the University of Kentucky with graduate studies in engineering from George Mason University and business from Columbia University.

Ryan Zatolokin,
Business Development
Manager/ Senior Technologist,
North America Axis
Communications

Ryan Zatolokin is the business development manager, senior technologist for the business development team of Axis Communications. His primary focus is cybersecurity as well as positioning and promoting Axis technology in conjunction with the hardware and software technologies of eco-system partners.

Ryan joined Axis in 2011, as a field sales engineer, bringing more than a decade of experience in network engineering on the systems integrator side of the industry.

Ryan earned his bachelor's degree in Business Administration with a specialty in computer information systems from Eastern Michigan University.

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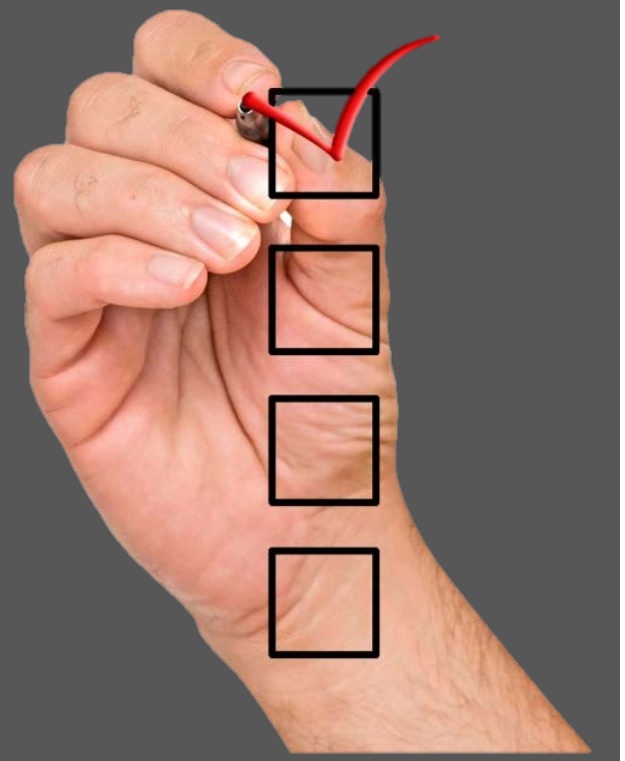
Today's objectives

- Threat landscape
- Understanding the differences between risk, vulnerabilities, threats, and incidents
- Physical security's cyber problem
- Recognizing threats and vulnerabilities
- The targeting of physical security
- Why monitoring is required



High profile breaches make headlines

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Threat landscape

Not Petya 2017 – $10 Billion in Damages Worldwide

- Maersk – $300 Million
- Merck – $870 Million
- FedEx – $400 Million
- Combination of Windows vulnerability combined with ransomware
- Collateral damage to nation-state target Ukraine from Russian hackers

Mirai/Persiria – Botnet

Devils Ivy – Stack overflow – SOAP

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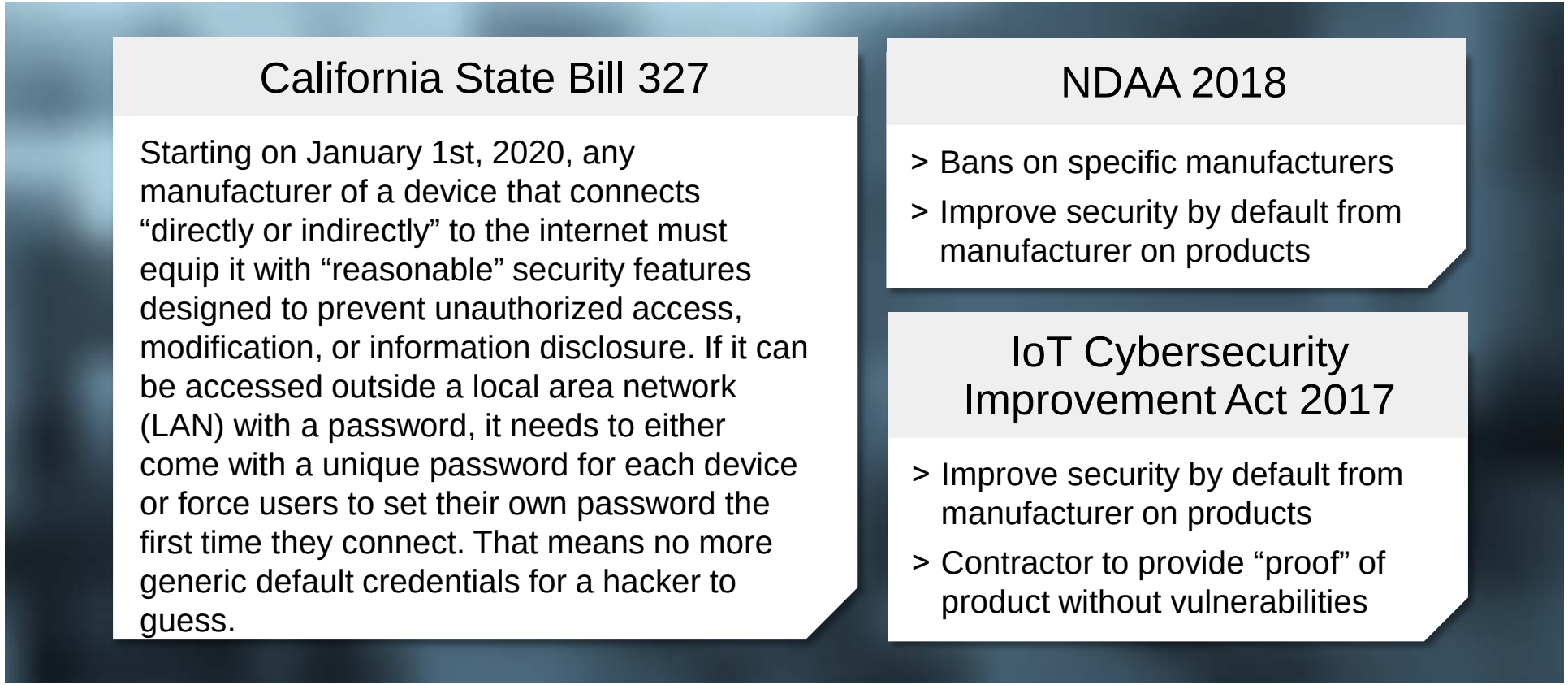
Cybersecurity legislation



California State Bill 327

Starting on January 1st, 2020, any manufacturer of a device that connects “directly or indirectly” to the internet must equip it with “reasonable” security features designed to prevent unauthorized access, modification, or information disclosure. If it can be accessed outside a local area network (LAN) with a password, it needs to either come with a unique password for each device or force users to set their own password the first time they connect. That means no more generic default credentials for a hacker to guess.

NDAA 2018

> Bans on specific manufacturers

> Improve security by default from manufacturer on products

IoT Cybersecurity Improvement Act 2017

> Improve security by default from manufacturer on products

> Contractor to provide “proof” of product without vulnerabilities

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Definitions

Risk is the probability that an outside element will exploit a system weakness.

Vulnerability is a system weakness that creates a risk.

A **threat** is anything that could exploit a vulnerability to be destructive or harmful to assets.

An **incident** (or event) occurs when a threat penetrates the security of a network without authorization.

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Physical security's cyber problem

Proliferation of IoT devices used within physical security	Inter -company disconnects between Operations and IT	Lack of IT oversight into physical security networks	Small pool of available cybersecurity professionals
Sophisticated solutions are complex to implement	Slow adoption of best practices by manufacturers and installers	Large and growing vulnerable install base	Hackers leverage adjacent less secure networks to gain corporate access

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https://news.milestonesys.com/automating-trust-for-cyber-threatened-surveillance-systems

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Poll: Question 1

Given the current threat landscape and economic environment, do you perceive a change in the cyber threats facing your organization?

- Increase
- Same
- Decrease
- Don't know

Recognizing threats and vulnerabilities

Physical security architecture has evolved to be more IT -centric

Most data breaches are never reported, even less so when not mandated by law

180 million professional video surveillance cameras will be shipped in 2019

Online tools / search engines (e.g. Insecam.org, Shodan) regularly showcase vulnerabilities

Prevailing culture and lack of understanding breed opportunistic hackers who gain entry through adjacent networks

IT-based system adoption exponentially creates further vulnerabilities

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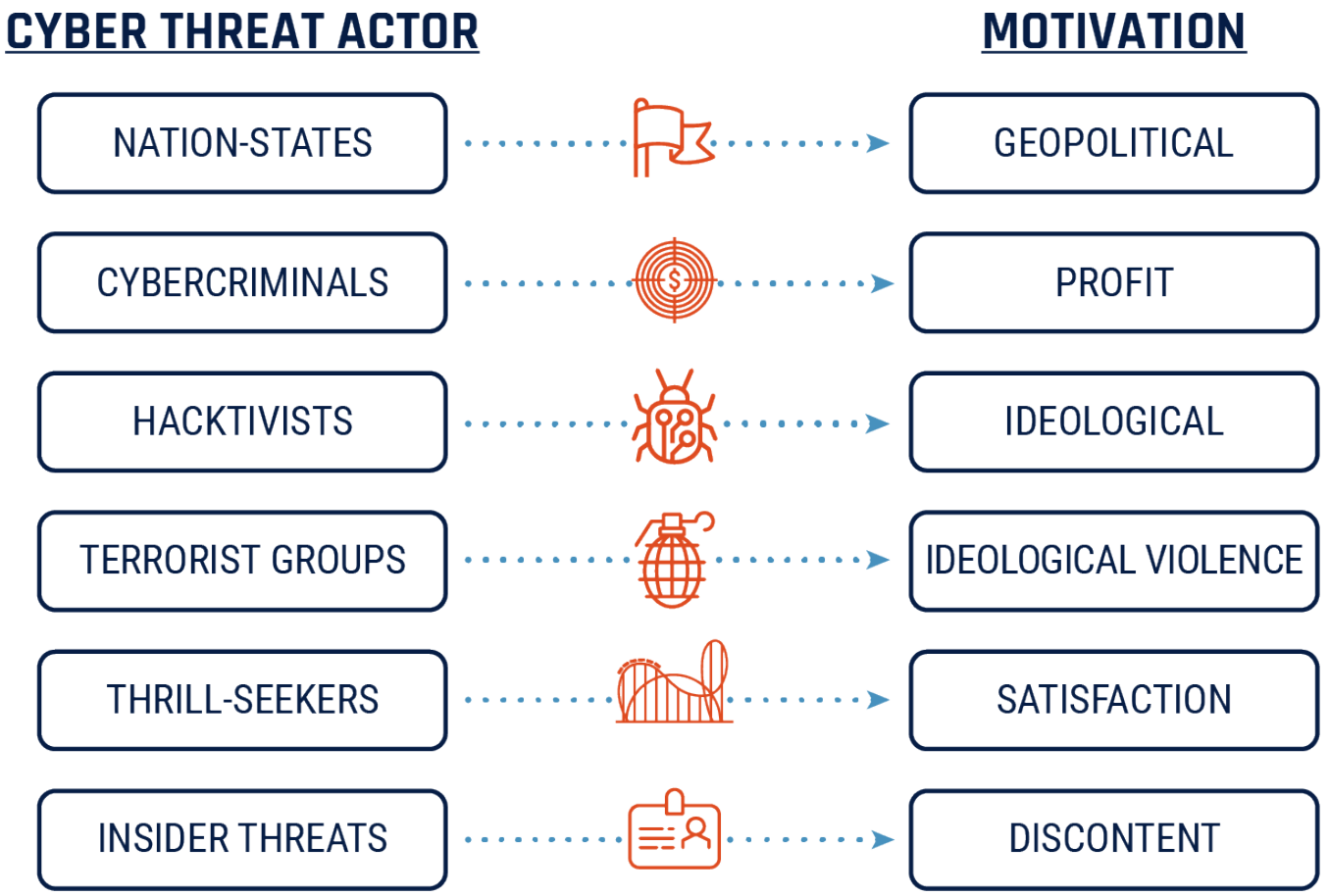
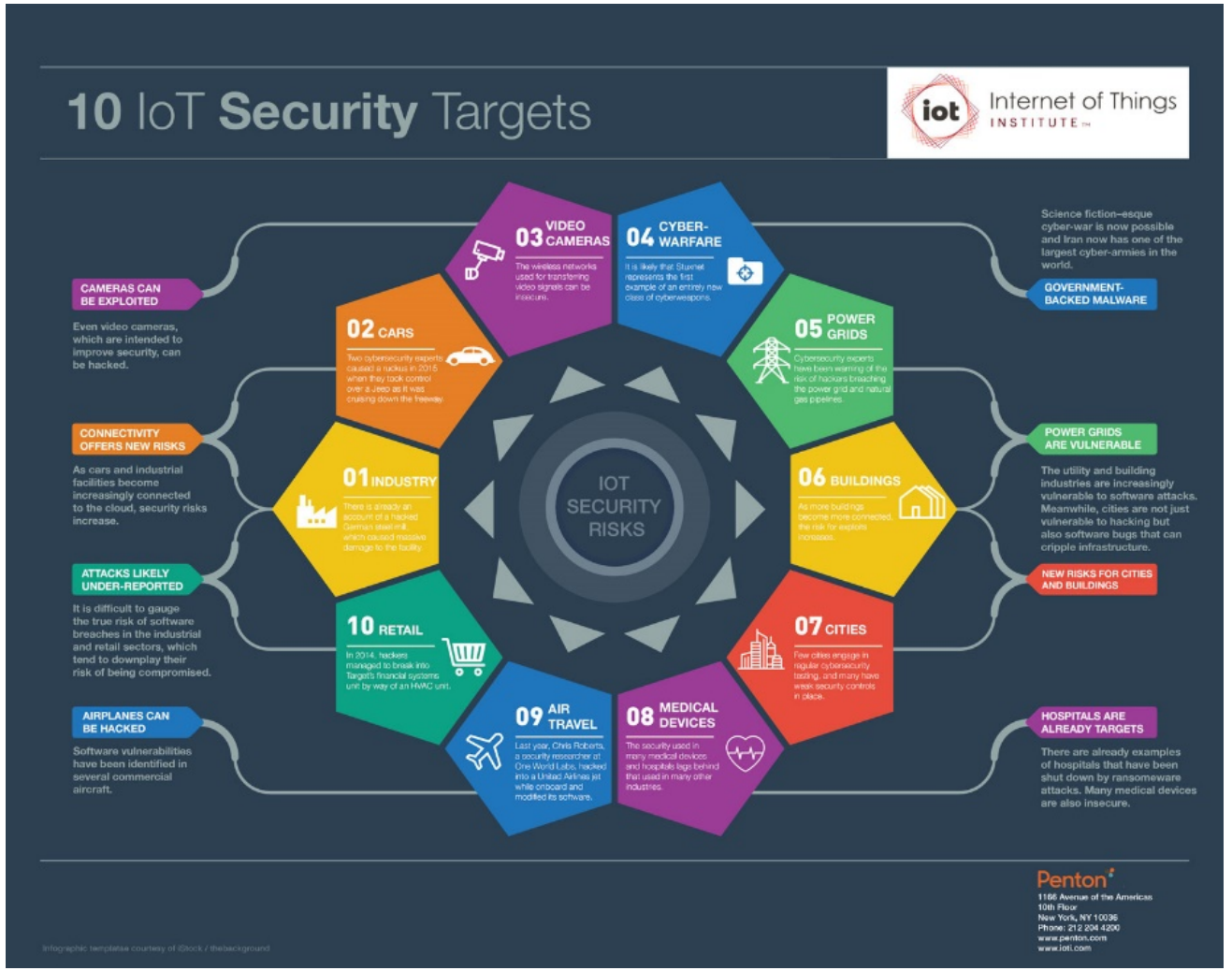
Threat actors



https://vividcomm.com/2019/04/15/threat-actors/

Top IoT security targets



https://www.iotworldtoday.com/2016/07/27/10-most-vulnerable-iot-security-targets/

#SimpleSecureVideo

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Simplify

Intelligent Video Surveillance Server Appliances

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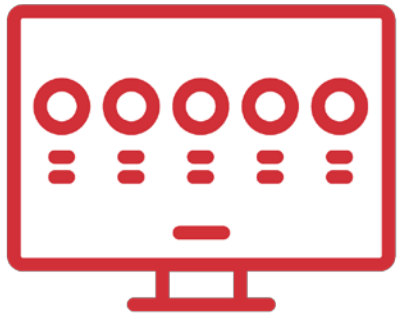

Automated Cybersecurity Software

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Health Monitoring Software

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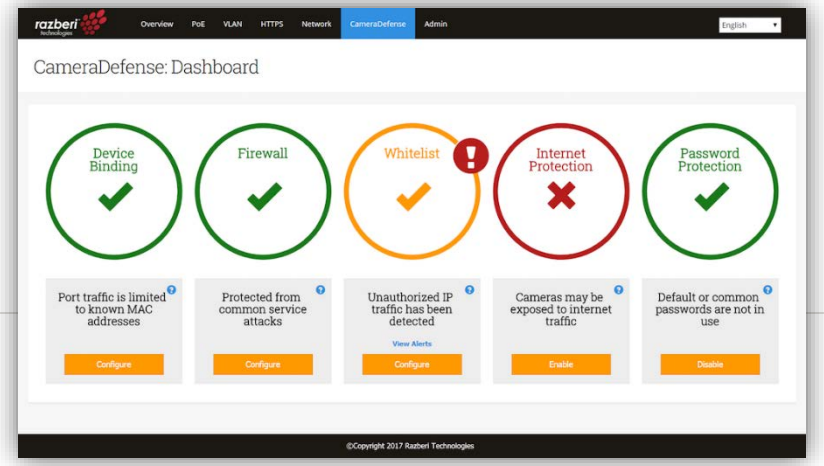
Automate



Razberi CameraDefense™

Award -Winning, Automated IoT Cybersecurity Software

Blocks	unauthorized devices
Closes	unused network ports
Restricts	device traffic to known networks
Enforces	password complexity
Denies	un-needed network services
Monitors	alerts for threat detection displayed on simple dashboard

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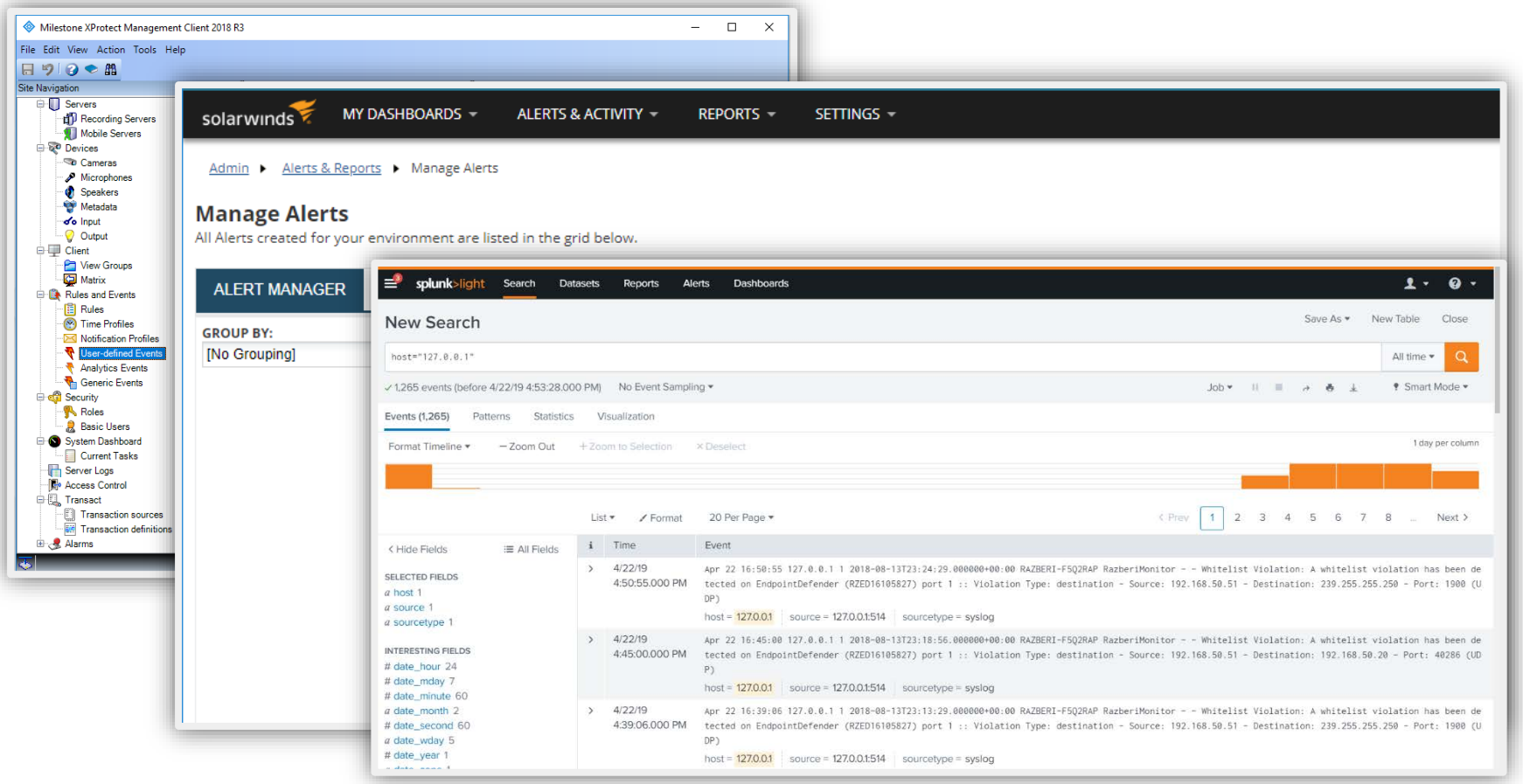
Integrate



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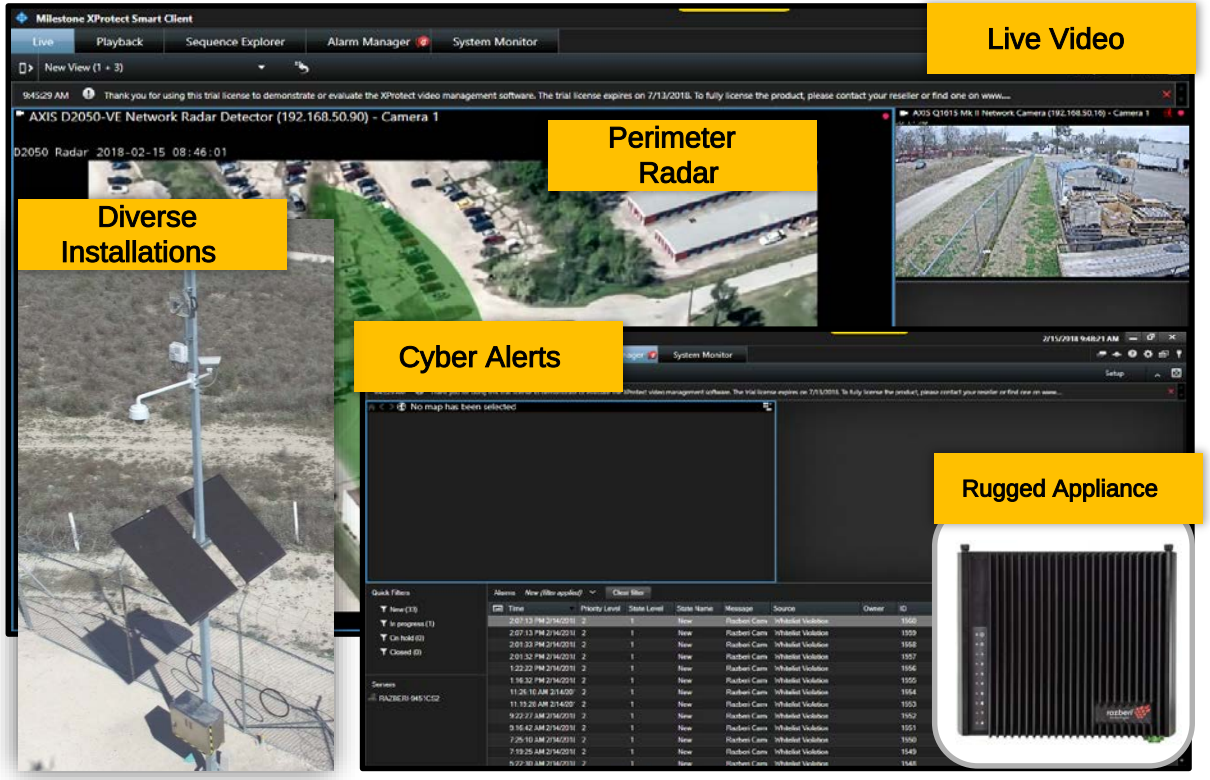
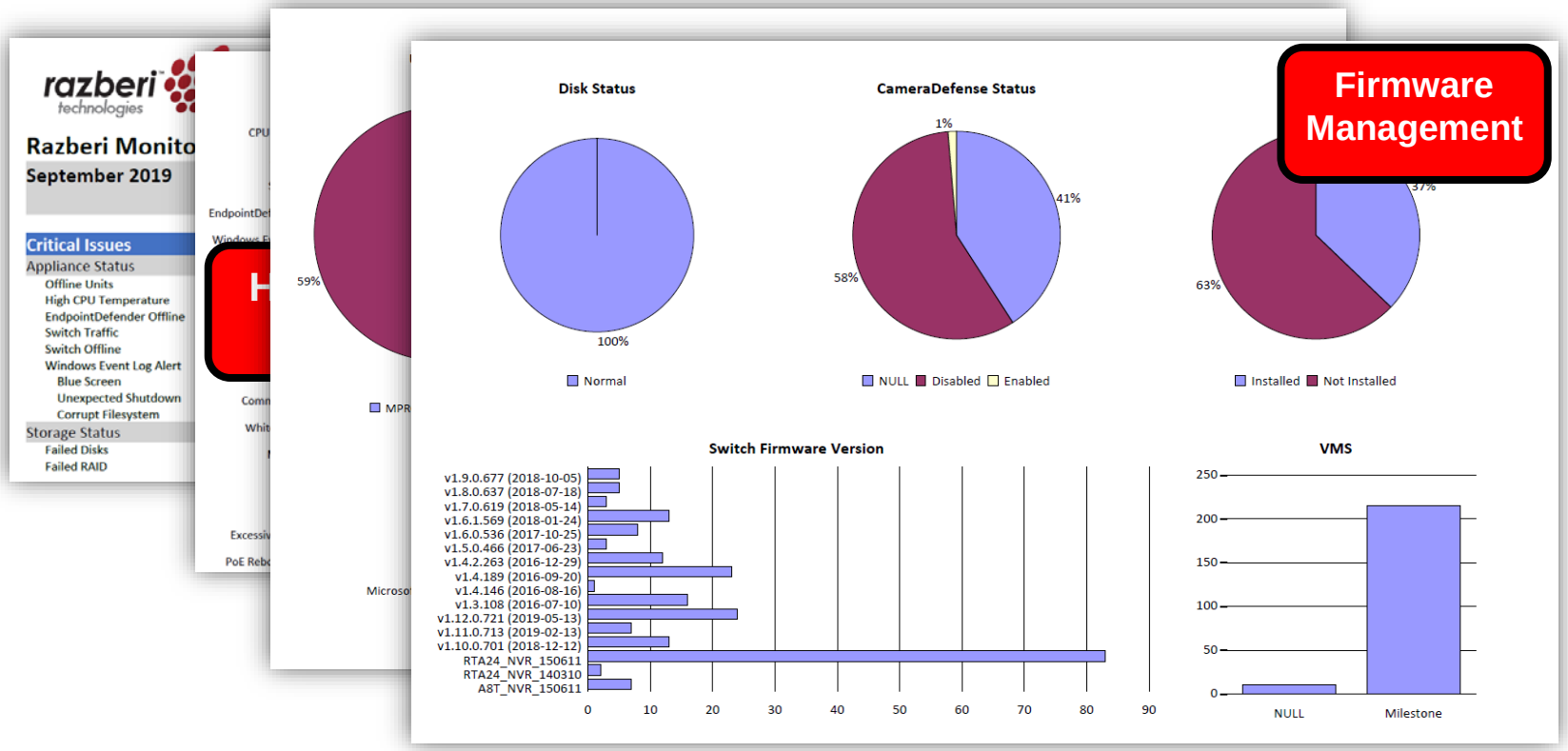
Collaborate



Report



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Cybersecurity
is a process,
not a feature.

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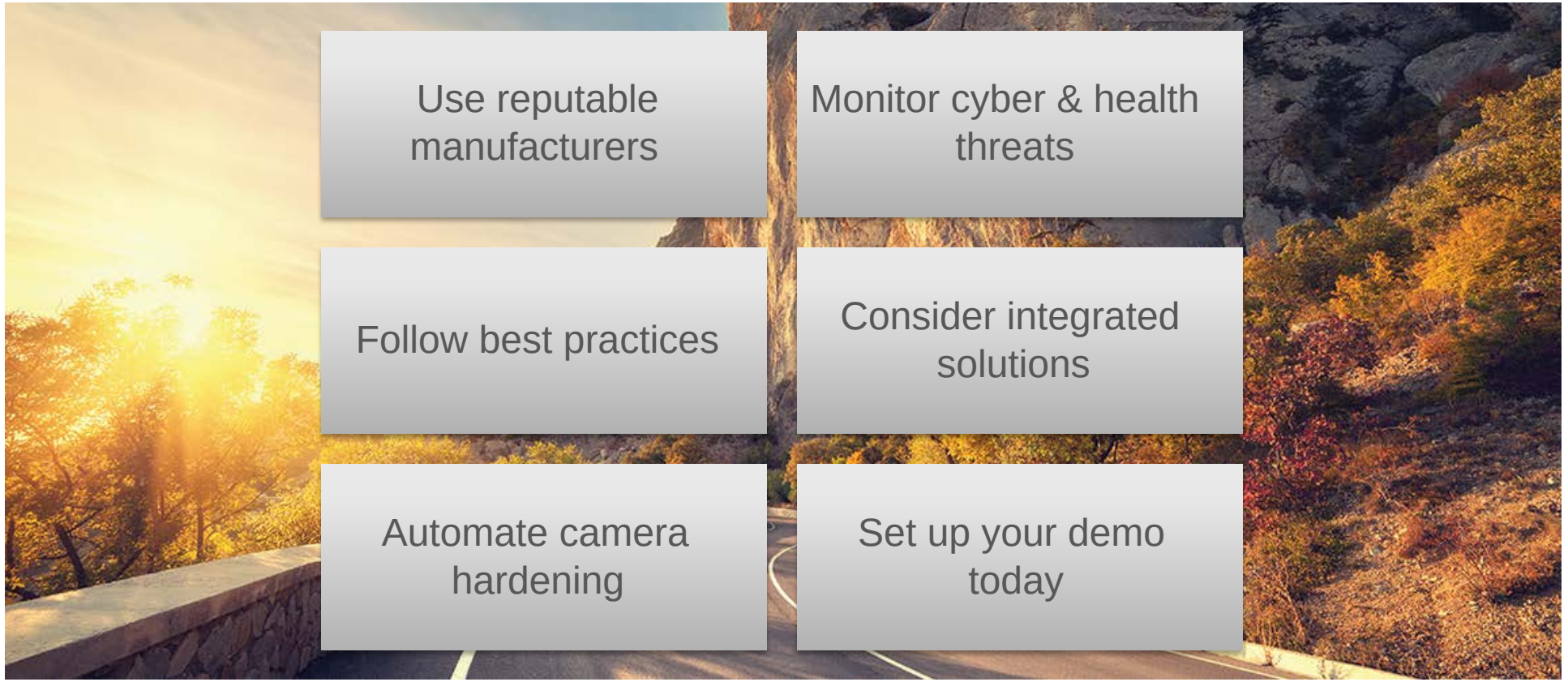
Summary



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Poll: Question 2

Are you interested in having a conversation with Axis Communications and Razberi Technologies?

> Yes, please contact me

> No, not at this time

Thank You

#SimpleSecureVideo

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