Cybersecurity: Learn Critical Strategies to Protecting Your Enterprise

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Today's Presenters

Atul Shah, Senior Security Strategist, Microsoft Corporation.

With 15+ years of experience in IT security industry, he has been involved in several aspects of IT security from product development to managing core IT infrastructure services for Microsoft's global business. Today, Atul drives the End to End Trust initiative, which seeks to create a safer, more trusted internet. His efforts include creating trusted mechanisms for evaluating and attesting to the state of the devices connecting to the internet, investigating and solving cloud related security, privacy and jurisdictional issues that impact businesses and consumers. Atul is a frequent public speaker on strategies for reducing Internet threats such as identity theft, improving device health and proactive protection strategies to reduce the risks of malware.

Steve Hanna, Distinguished Engineer, Juniper Networks.

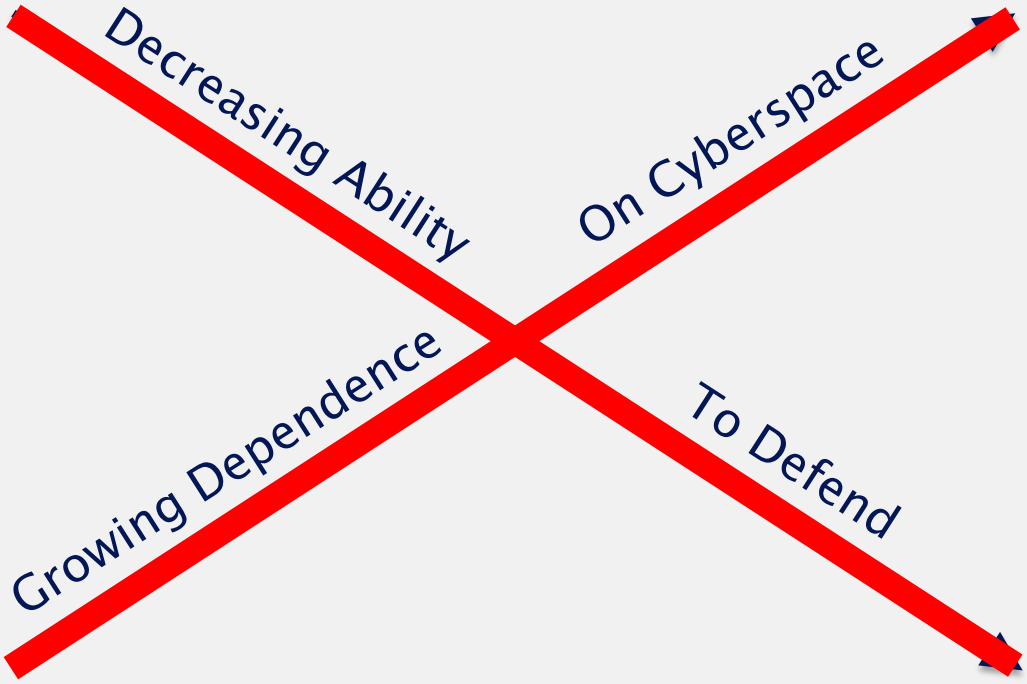
As co-chair of the Trusted Network Connect (TNC) Work Group in the TCG and the Network Endpoint Assessment Working Group in the IETF, Steve has a deep and broad understanding of Network Access Control technology. He is the author of many papers, an inventor or co-inventor on 34 issued patents, and a regular speaker at industry events.

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Cybersecurity: How to Protect Your Enterprise

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Cybersecurity Challenges



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Recent Threats And Attacks

- **Operation Ababil disruption campaign against banking websites**
  - Distributed Denial of Service (DDOS) attacks in 2012
- **Targeted attacks against US defense contractors**
  - Information threats that called into question combat readiness of some new military weapons systems
- **Hacktivist (e.g., Anonymous) attacks against businesses**
  - Sony and Stratfor attacks led to release of customer records, credit card numbers and sensitive emails
  - LinkedIn, Last.fm and eHarmony breaches called into question those businesses' cybersecurity preparedness
- **Highly destructive critical infrastructure systems attacks**
  - Stuxnet and Saudi Aramco attacks

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Top Cybersecurity Priorities

- **Prevent downtime**
  - Loss of revenue from network and system downtime
  - Distributed Denial of Service attacks are costly
- **Safeguard crown jewels**
  - Intellectual property theft (data)
  - Loss of competitive advantage, compromise of national security

Targeted attacks by determined adversaries have an immediate and long term impact

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Top Cybersecurity Priorities

- **Maintain reputation**
  - Security breaches can be public relations nightmare
  - Erosion of customer confidence can be devastating
- **Protect critical infrastructure**
  - Aging, largely unsecured industrial control systems are vulnerable
  - These privately owned critical infrastructure systems may increasingly be subject to regulatory security controls

Impact of cybersecurity breaches are increasingly felt far beyond the individual network/entity being attacked

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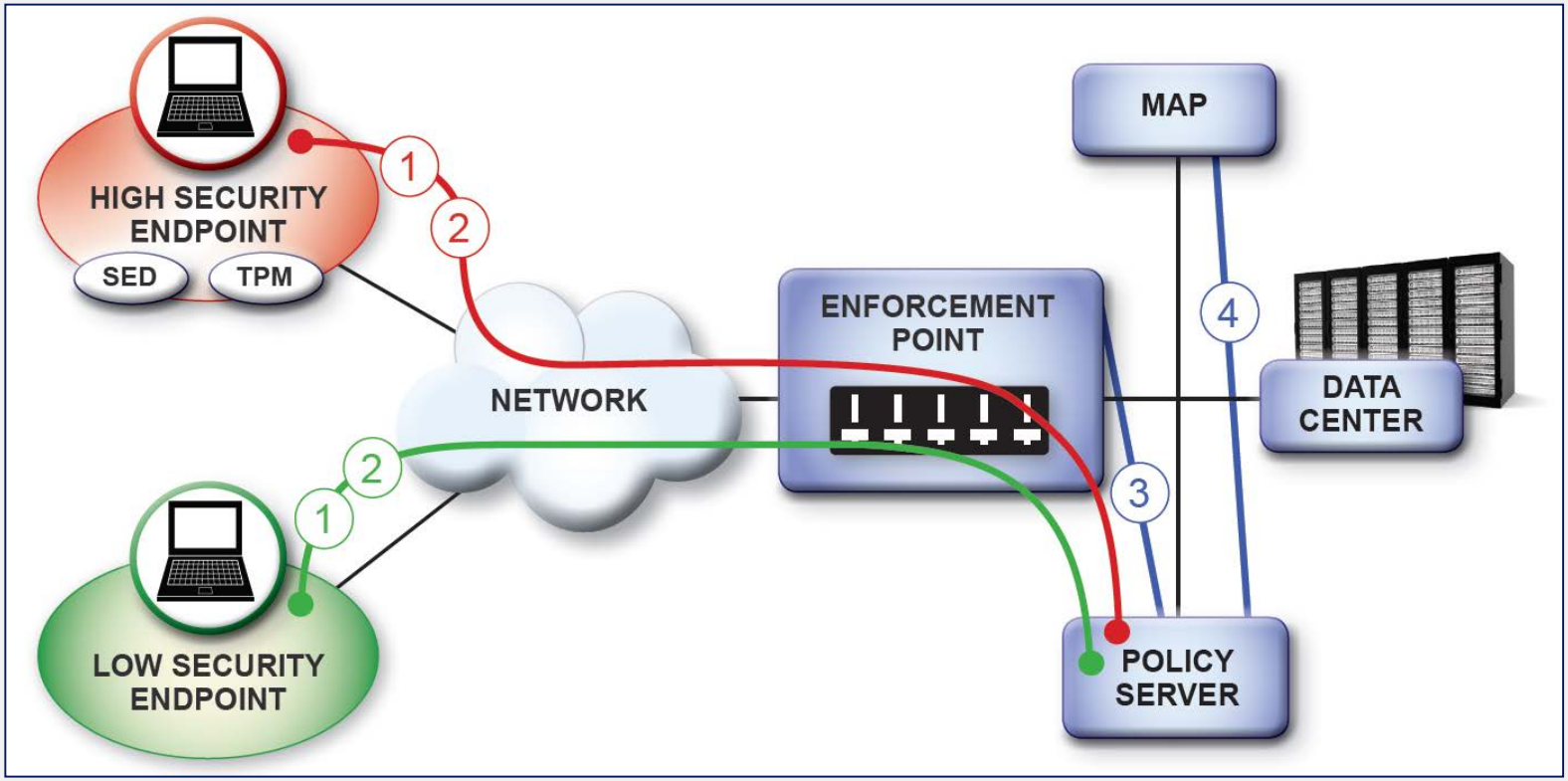
Assessing Cybersecurity Risk

- **Understand Threats**
  - Hackers, Criminals, Competitors, Nation-States
- **Identify Key Assets**
  - Secrets, Financial Accounts, Physical Systems, Trust/Reputation
- **Quantify Risks**
  - Likelihood, Impact, Existing Mitigations, weak links (supply chain, BYOD)
- **Select Countermeasures**

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Six Steps To Cybersecurity

1. Establish Consistent Architecture

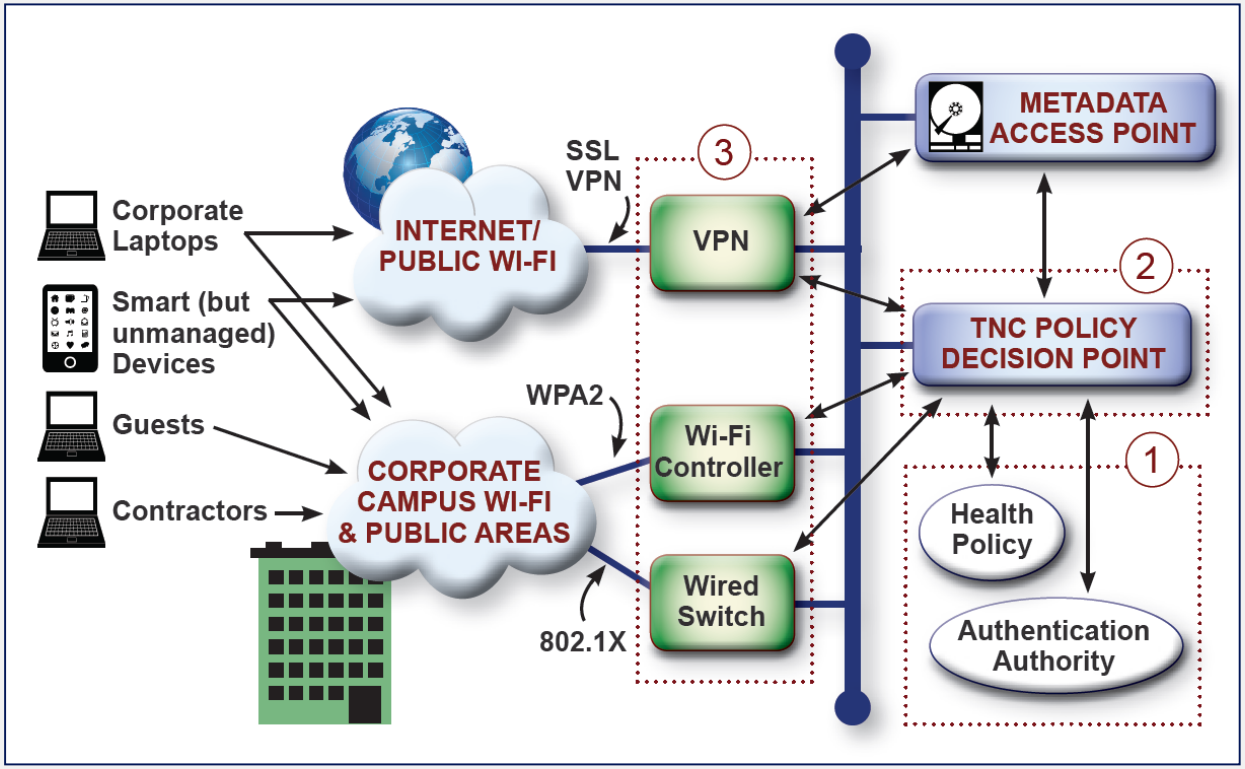


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Six Steps To Cybersecurity

1. Establish Consistent Architecture

2. Control Access



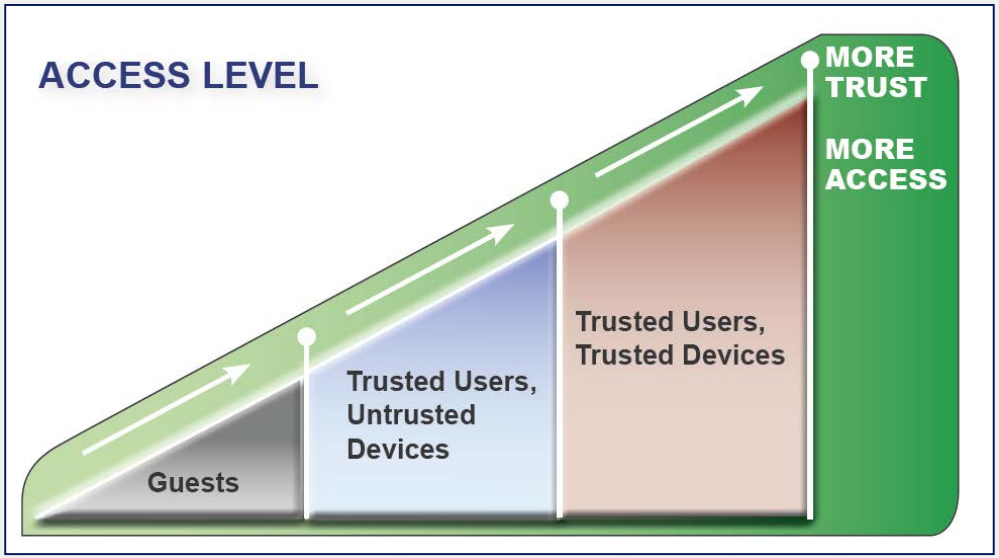
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Six Steps To Cybersecurity

1. **Establish Consistent Architecture**

2. **Control Access**

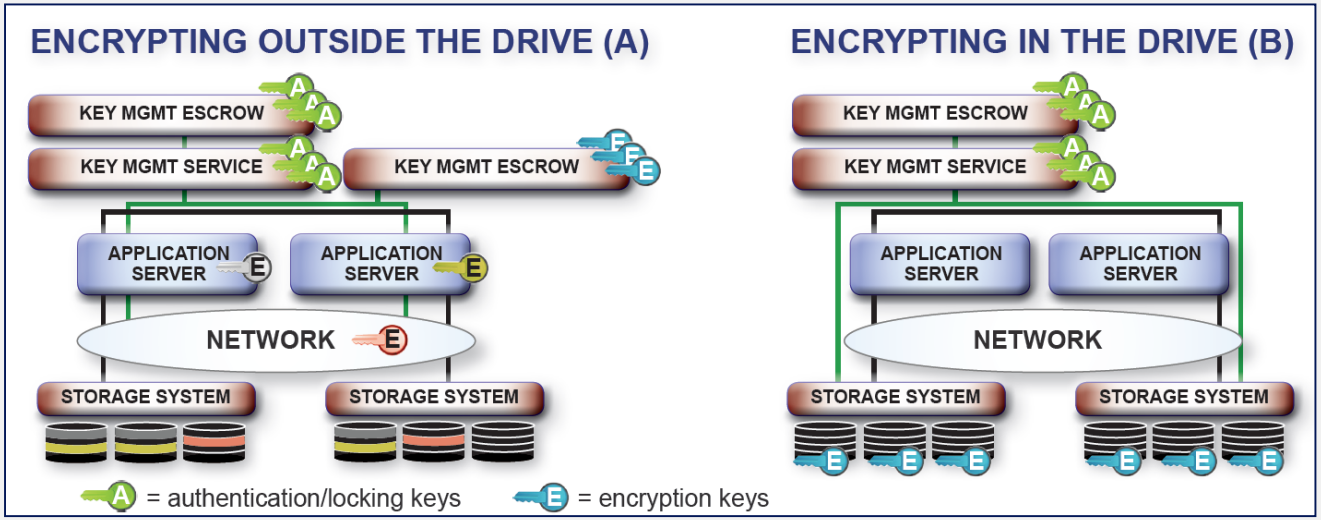
3. **Strengthen Authentication**



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Six Steps To Cybersecurity

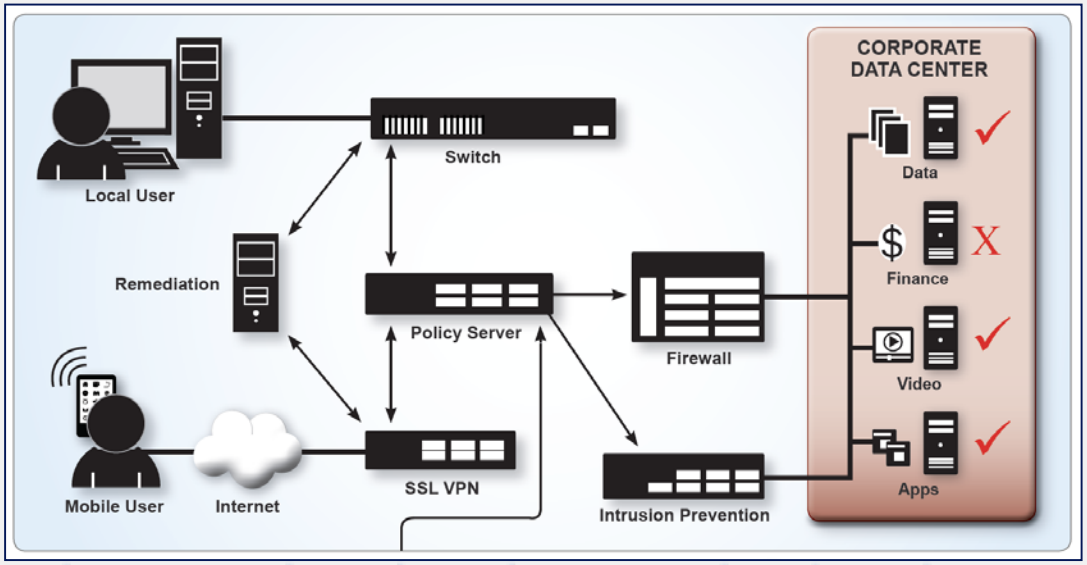
1. **Establish Consistent Architecture**
2. **Control Access**
3. **Strengthen Authentication**
4. **Encrypt Data**



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Six Steps To Cybersecurity

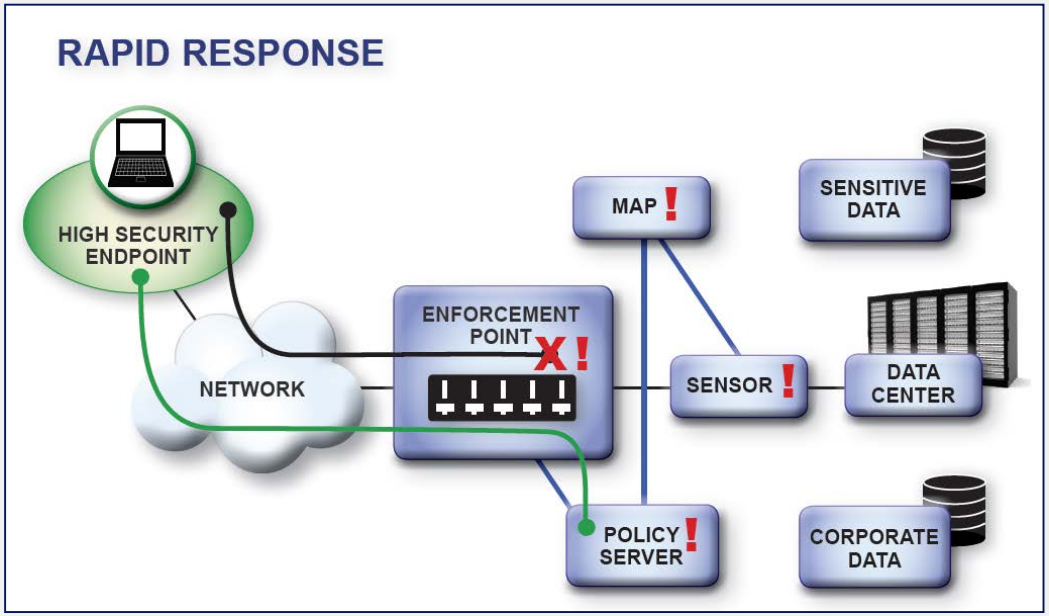
1. Establish Consistent Architecture
2. Control Access
3. Strengthen Authentication
4. Encrypt Data
5. Layer Defenses



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Six Steps To Cybersecurity

1. Establish Consistent Architecture
2. Control Access
3. Strengthen Authentication
4. Encrypt Data
5. Layer Defenses
6. Automate Security



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Future Directions

- **Actionable Threat Intelligence**
  - Enabled by STIX Format
- **Improve Analytics and Visualization**
  - Automated Attack Correlation and Analysis
  - Unified Dashboards
- **Industrial Control Systems Security**
  - As Detailed on TCG's November 19 Webcast

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Call To Action

- **Assess Cybersecurity Risks**
- **Define Your Cybersecurity Defense Architecture**
- **Demand TCG-Certified Products**
- **Learn More at http://www.trustedcomputinggroup.org**

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