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# Cyber Security and Protecting the Supply Chain

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# Outline

- Threats relevant to Supply Chain
- What happens when supply chain attacks are successful?
- Prevent, Detect and Respond
  - How does traditional cybersecurity fit with partners?
- Questions

# Threats Abound

## 3 Major Cybersecurity Threats That Experts Experience Every Day

Jun 14, 2017 / by Jimmy H. Koo

### THE RISKY BUSINESS OF BEING OVER-EXPOSED TO ONLINE CYBERSECURITY THREATS

**Darktrace: IoT Is Another Insider Cyber Security Threat To Consider**

Roland Moore-Colyer v. June 12, 2017, 6:48 pm



SEC identifies adviser cyber security flaws



**Cybersecurity Firms Warn of New Malware Threat to Electric Grids**

**Cyber security employee shortage barrier to effective threat detection**

Features 21 MAY 2017

**Panel urges quick, decisive action on cybersecurity**

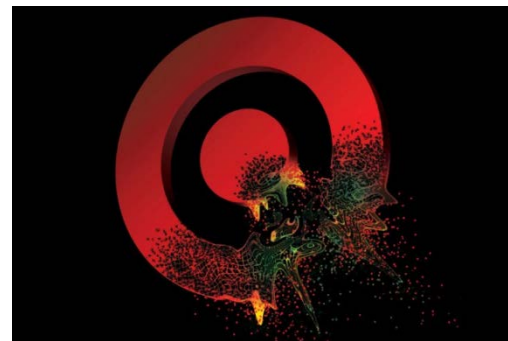
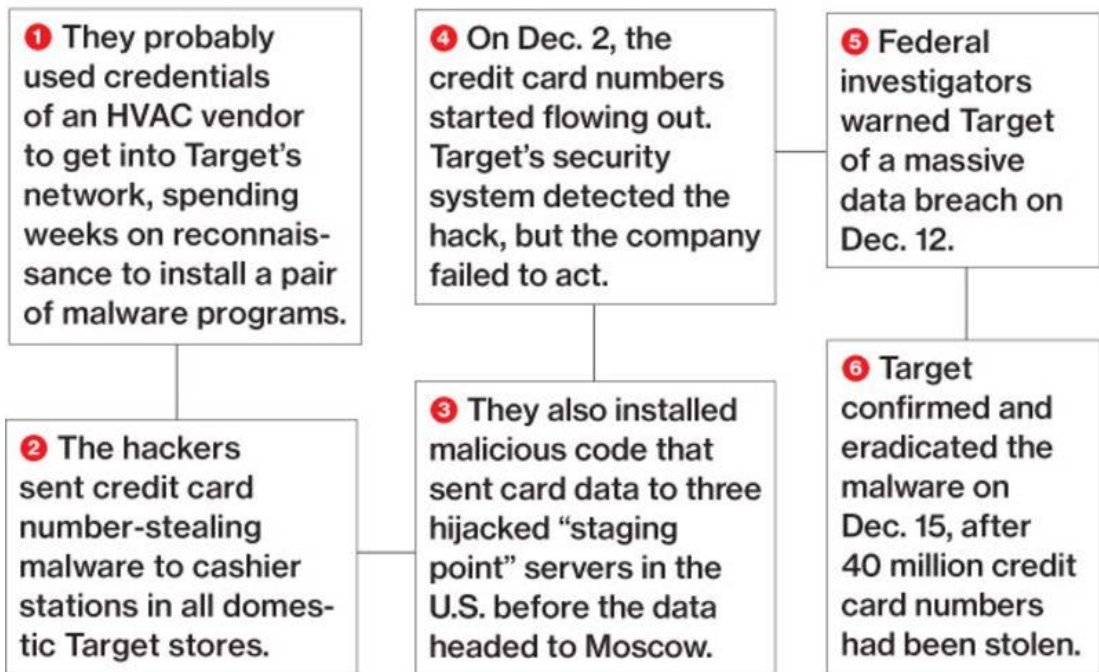
Privacy & Security

**WannaCry and now EternalBlue threats prove cybersecurity review is a must**

First National Technology Solutions says software updates, constant patching and employee education are musts.

# Threats executed through partners – Target - 2013

## How the Hackers Broke In



# What happened after the Target Breach?

- 40 million credit card numbers stolen, 110 million customers had personal data stolen
- Target spent more than \$250 million responding to the breach and investigating.
- Largest holiday revenue drop in the history of the company for the holiday period, down 46% from Q4 2012 (loss of almost \$500 million)
- 90 lawsuits filed by customers and banks (one settled for \$10 million), some against specific board members
- Congressional inquiry

# Supply Chain Attacks

- More electronically connected every year with partners, connection = speed and connection = path for attackers
- Supply chains have become so efficient, they are often fragile, interrupt one key partner and drive large impact
- Attackers look for the weakest entry point and generally have two motivations:
  - Financial – ransomware, steal and sell
  - Disruption – terrorists – imagine disrupting the global supply chain of vehicle fuel, many attack points

## Malware infecting PCs on production line, Microsoft says

Computers being infected with viruses, counterfeit software before they arrive at stores, lawsuit documents say

The Associated Press | Posted: Sep 13, 2012 3:54 PM ET | Last Updated: Sep 13, 2012 7:40 PM ET

# Prevent, Detect and Respond – Expectations of Partners

## – Prevent

- Partners to do cybersecurity certification (e.g. SOC 2 Report (Service Organization Control)) as a condition of working within your supply chain.
- Careful with the small players, cybersecurity is expensive if done well

## – Detect

- Penetration testing reports.
- Contract can include alerting related to security incidents.
- Depending on your organization's maturity and the partner's willingness, can have monitoring of access to your information on their systems.

## – Respond

- Connections active with partners to deal with incidents
- Contractual matters in place if things get ugly