



Seyfarth Shaw LLP

Industrial Espionage Cybersecurity and the Healthcare Industry

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What Does Industrial Espionage Look Like?





What Does Industrial Espionage *Really* Look Like?

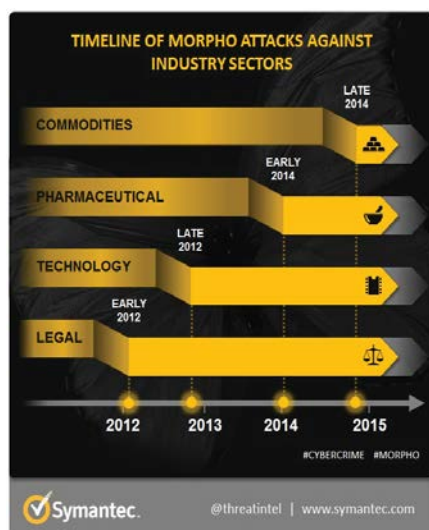


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But It Can't Be Me Their After...Right?



Original Targets:

- Twitter
- Facebook
- Apple
- Google
- Microsoft

New Targets

- Pharma
- Healthcare
- Who Knows!

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But What Are They After?

- Ransom-ware
 - “I will shut off your pacemaker unless you pay”.
 - “I will kill patients on IV Pumps unless you pay”

<http://money.cnn.com/2016/03/23/technology/hospital-ransomware/index.html>
- Financial Incentives
 - Medical Data more Valuable than Credit Card Data
 - Fraud
 - order expensive drugs or equipment for resale
 - file made-up claims with insurance companies and get money in return.
 - seek free medical care under another's identity.
- Competitive Data
 - Practice Management Software
 - Effectiveness of Therapies
 - Patient Lists
 - Mortality Rates



Hackable Medical Devices

- Medical Devices are usually Wi-Fi enabled
 - More than half of devices in America are software-enabled
- Unintentional Breaches
 - X-Ray Machines hit with viruses
 - Radiotherapy machine kills 5 due to software bug
- BARNABY JACK
 - hack into a pacemaker via Wi-Fi
 - send an 830-volt shock through a person's body
 - Can be done with a laptop from 30 to 50 feet away
 - Demonstrated talk at Breakpoint security conference in Melbourne, Australia
 - Also able to access personal data stored on implants, such as confidential patient information and the doctor's name

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[Cybersecurity for Health Care Organizations](#)

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