



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?

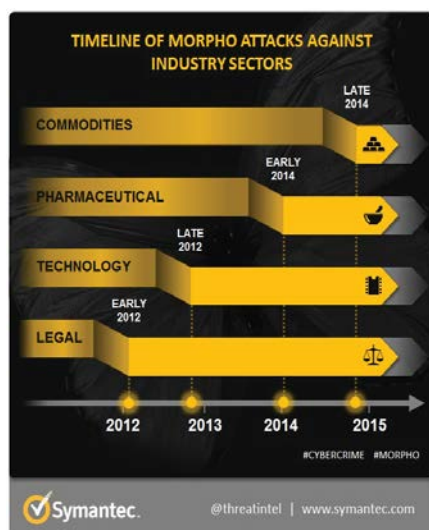


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## But It Can't Be Me Their After...Right?



### Original Targets:

- Twitter
- Facebook
- Apple
- Google
- Microsoft

### New Targets

- Pharma
- Healthcare
- Who Knows!

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## But What Are They After?

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- 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

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- 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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## Title search: Industrial Espionage Cybersecurity and the Healthcare Industry

Also available as part of the eCourse

[Cybersecurity for Health Care Organizations](#)

First appeared as part of the conference materials for the  
28<sup>th</sup> Annual Health Law Conference session  
"Cybersecurity"