

# Mobile Security

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# Mobile is bad

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- ⊙ ... for security, that is
- ⊙ Obvious issues
  - No wires: tapping everywhere
  - No sense of connection to a network
  - TCP/IP was not designed for security, especially not mobile
  - Everyone is connected
- ⊙ This said, it may be a cure!

# Enterprise mobility

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- ◎ 802.11 – well known issues
  - WEP, WPA, MAC filtering
  - Deploying enterprise-wide is tough: authentication/authorization
  - 802.11n: wires RIP (but wait! 802.11g was that too!)
- ◎ WiMAX (4G)
  - Secure, modern, not used
- ◎ Users bring in their own stuff (good or bad thing? Think Google)
- ◎ IDS is a reasonable solution (though you should ask if you actually have a problem)

# User mobility

## ⊙ First wireless worm

Automatically connect to non-preferred networks

## ⊙ Risks:

- WiFi: no real risks, same as everywhere else.  
People „know”
  - 3G: handsets are slow today
  - BT: good target, BT is not perceived as a network thingie
- ## ⊙ Protection coming from the providers?
- Anti-malware in the core networks
  - Push option for subscribers

# Mobile ISPs

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- ⊙ Pass-through technology
- ⊙ Core (ops) environment not ready for security
- ⊙ Mix of internal and external customer traffic
- ⊙ Anonymous access
  - Legal issues
  - Prevention issues

# Critical infrastructures

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- ◉ SCADA is THE target (I told you!)
- ◉ Dumb, not protected, old, simple IT, unaware users, BIG BANG when attacked
- ◉ There is even a movie about that
- ◉ SCADA goes wireless in the field
  - Especially in interesting places like oil companies
- ◉ Protecting that is tough because of ... the FDA

# So what?

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- ◎ The holy graal solution: protect the data
  - Anything to do with mobility? (answer: no)
  - Easy to do? (answer: no)
- ◎ If not: protect the access
  - Network Access Control
- ◎ Let's face the facts:
  - There is no more perimeter
  - Realistically layer 5 or 6 protection

# Thank you

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- ⦿ Everything you wanted to know about mobile security but were afraid to ask in a public venue
- ⦿ Contact: [w@swiatek.name](mailto:w@swiatek.name)