

# Wireless Security and Authentication

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## Let's Dispel One Myth Up Front, Shall We?

- There is no such thing as *absolute security*
  - If there were, the National Security Agency would close up shop!
- Our prime objective, then, is to at least make it *difficult* for eavesdroppers and unauthorized "users"
- Wireless security concerns are not that different from wire
  - What do radio types call unshielded twisted pair cabling?
  - The phony phone repairperson
  - It's amazing more network managers aren't concerned...



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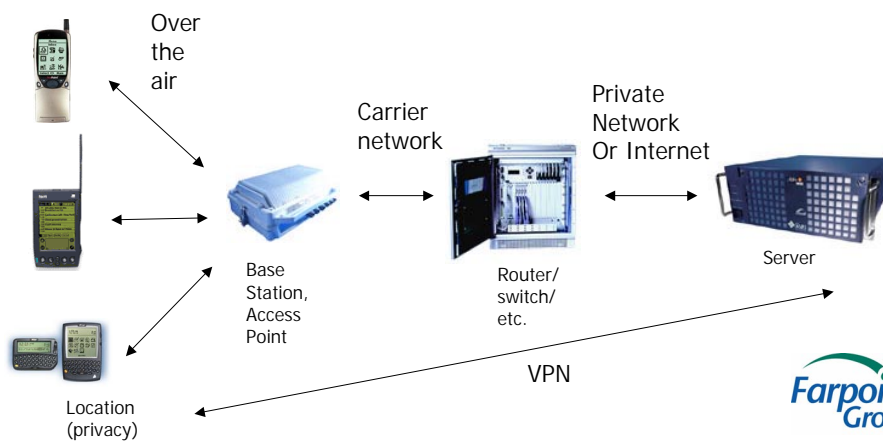
# Wireless Security – What Can Be Done?

- “Inherent” wireless security
  - Range limitations
  - Data scrambling and channel coding
  - Spread-spectrum technologies (*integrity*)
- Encryption (*privacy*)
- Authentication (*identity verification*)
- Note – security leaks most often occur at the ends of the network, *not the middle!*
  - The increasing importance of *virtual private networks (VPNs)*
- Of course, hackers are getting smarter all the time...



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# Wireless Security: The Big Picture



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## Our Speakers Today...

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- Doug Klein, CEO, *Vernier Networks*
- Daniel J. Schillaci, Director of Operations, Corporate Development, *Gemplus Americas*

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## Thank You!

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