

Network II

CS 184

Wireless (In)Security -- WEP

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Additional Resources

- **Intercepting Mobile Communications: The Insecurity of 802.11** by Nikita Borisov, Ian Goldberg, and David Wagner.
 - Published in Seventh Annual International Conference on Mobile Computing and Networking, 2001.
- **Wireless LAN Security: A Short History**
 - <http://www.oreillynet.com/pub/a/wireless/2002/04/19/security.html>

802.11 Wireless Security

- Wireless LAN networks are commonly built with the 802.11 protocol suite (802.11a,b,g,X)

Specifies standard networking functions over radio waves

- Transparent layer for upper network protocols (IP, TCP, Novell NetWare, ...)
 - Implements wireless networks (WLAN)
 - Integrates seamlessly into a LAN
 - Works on any platform, given drivers
- Fast: up to 11Mbit/s (802.11b) or 54Mbit/s (802.11a, g)
 - Ethernet is 10Mbit/s, fast Ethernet 100Mbit/s
 - Range about 30m/100feet
- Widely deployed
 - PCMCIA cards, built into Apple laptops, embedded solutions