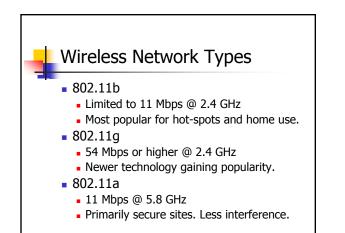
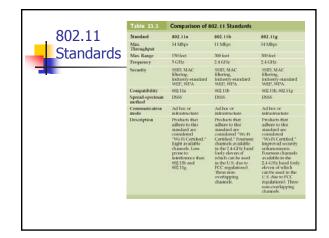
## Installing and Configuring a Wireless Network

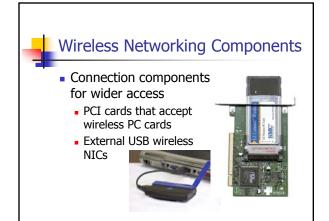
## Ken Corpus Computer Works Pro

## Introduction

- Wireless networks are growing in popularity
- Instead of CAT5 network cables, wireless networks use radio waves to communicate with each other
- Most of today's wireless networks are based on the IEEE 802.11 standard

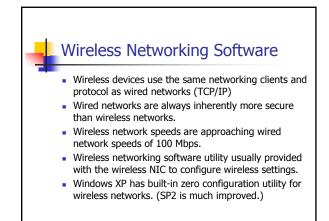


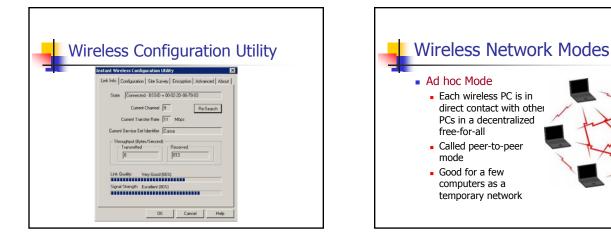


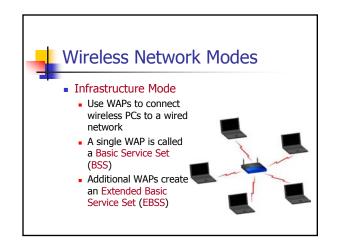


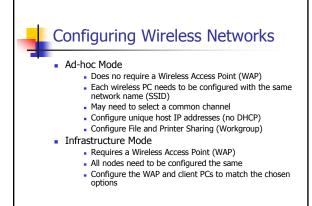












## Wireless Networking Security Service Set Identifier (SSID) Configure a unique SSID or network name Each PC needs to use the WAP's SSID Not secure without encryption. MAC Filtering

- Filtering based on each host's MAC address (unique number burned into every NIC)
- Creates a list of accepted or denied users.

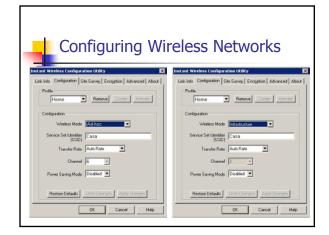
# Wireless Network Security Wired Equivalent Privacy (WEP) Encrypts data using up to 128-bit encryption Provides authentication based on MAC addresses but not users Wi-Fi Protected Access (WPA) User authentication using the Extensible Authentication Protocol (EAP) Uses encryption key integrity-checking

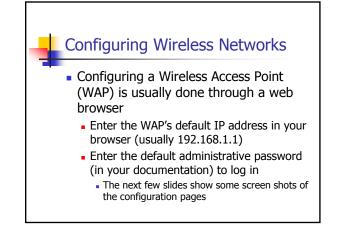
Regarded as a better choice than WEP.



### Configuring Wireless Networks

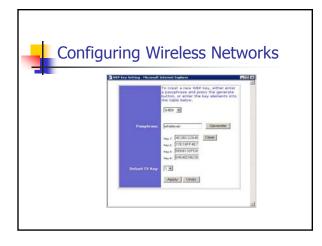
- Physically installing a wireless NIC is the same as installing a wired NIC
- Install the wireless network configuration utility to configure additional parameters
  - Windows XP has configuration parameters built-in
- The more important issue is authentication and security

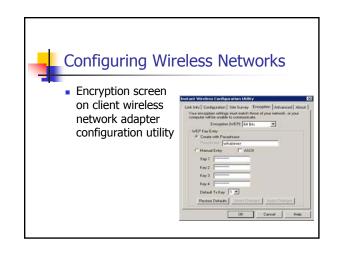


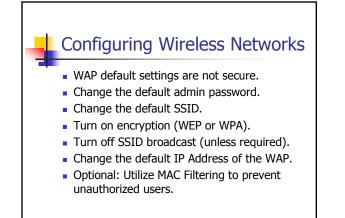


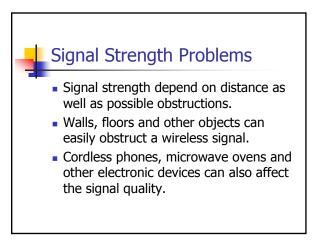


		Vetwork	
Wireless Group MAC Table - N	Nicrosoft Internet Explorer		-
Wireless MAC Entry:	1~10 •		
Station	MAC Address	Filter	
1:	00475697644a	P	
2:	0050da8cb777	<b>P</b>	
3:	0	C I	
4:	0	C	
5:	0	C	
6:	0	E	
7:	0		
0:	0	C	
9:	0	C	
10:	0	E	









## What's Next in Wireless?

Many new uses for wireless technology

- Wireless Game Adapters
  - PlayStation, Xbox, Game Cube
- Wireless Music Systems
   Portable boom box-like
- Wireless Video Cameras
  - Internet camera for live video
- Wireless Media Adapter
  - Pictures and Music on TV or Stereo