## **Channel Selection**

### **Best Practices**

- 1. Avoid high utilization
- 2. Avoid adjacent-channel interference
- 3. Avoid co-channel interference

#### **Steps**

- 1. Stand near the access point
- 2. Select **Physical Mode**, and select the AP radio
- 3. Note the **Recommended Channel**
- 4. Configure the AP with the new channel
- 5. Move to the next AP, repeat (if applicable)

# **Interference Coloring Rules**

:		Co-Channel
Blue	Current selection	
Yellow	Co-channel interference (okay)	Adjacent-channel
Red	Adjacent-channel interference (bad)	

# **Coverage and Signal Strength**

### **Rules**

- +3 db: double the signal
- -3 db: half the signal

### **Signal Strength Guidelines**

-65 dBm	Streaming video, voice over IP	
-70 dBm	Email, web browsing	
-80 dBm	Minimum functionality	

# **Utilization Colors**

Blue	Less than 10 percent	
Green	20-30 percent	<b>Utilization</b> indicates how
Yellow	40-50 percent	often the channel is in use.
Red	50 percent or more	

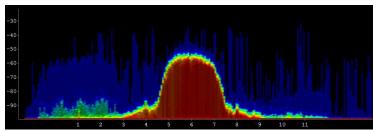
## Identify Non-Wi-Fi Interference

### Steps

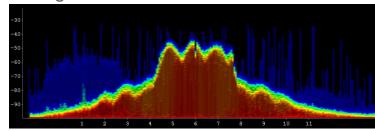
- 1. Find nearby wireless devices
- 2. Unplug the suspected interferer
- 3. Click File > Clear Data
- 4. Check for changes in the 2.4 GHz graph
- 5. Repeat until the interference signature disappears

# **Identify Non-Wi-Fi Interference**

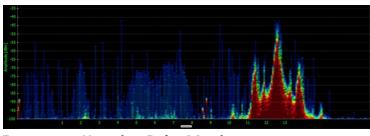
### 802.11b Wi-Fi



## 802.11g Wi-Fi



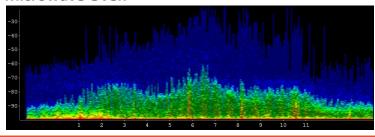
### Wireless Video Camera



### **Frequency-Hopping Baby Monitor**



#### **Microwave Oven**



Job Aid for inSSIDer Office + Wi-Spy

