CS 525W Mobil & Ubiquitous Computing

Project Update

Andrew Zafft
Computer Science Dept.
Spring 2011

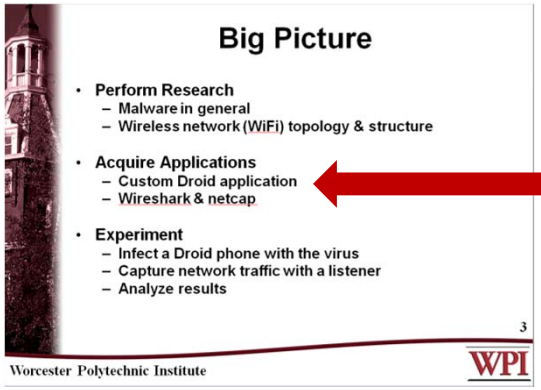
The Problem

- **The "Problem" is two part:**
  - **How tolerant is a wireless network to malware?**
  - **What is the effect (in terms of throughput) felt by other users in a wireless network infected by malware?**

Big Picture

- **Perform Research**
  - **Malware in general**
  - **Wireless network (WiFi) topology & structure**
- **Acquire/Build Applications**
  - **Custom Droid application**
  - **Wireshark & netcap**
- **Experiment**
  - **Infect a Droid phone with the “virus”**
  - **Capture network traffic both with a wireless listener and at the target machine**
  - **Analyze results**

Where am I?



Right Here

What I've done: Performed general malware research
Loosely studied wireless topology

Near Term: Decide method of malware (I'm looking at abusing RTS/CTS signals if possible)
Build malware application

Long Term: Run experiment
Analyze results