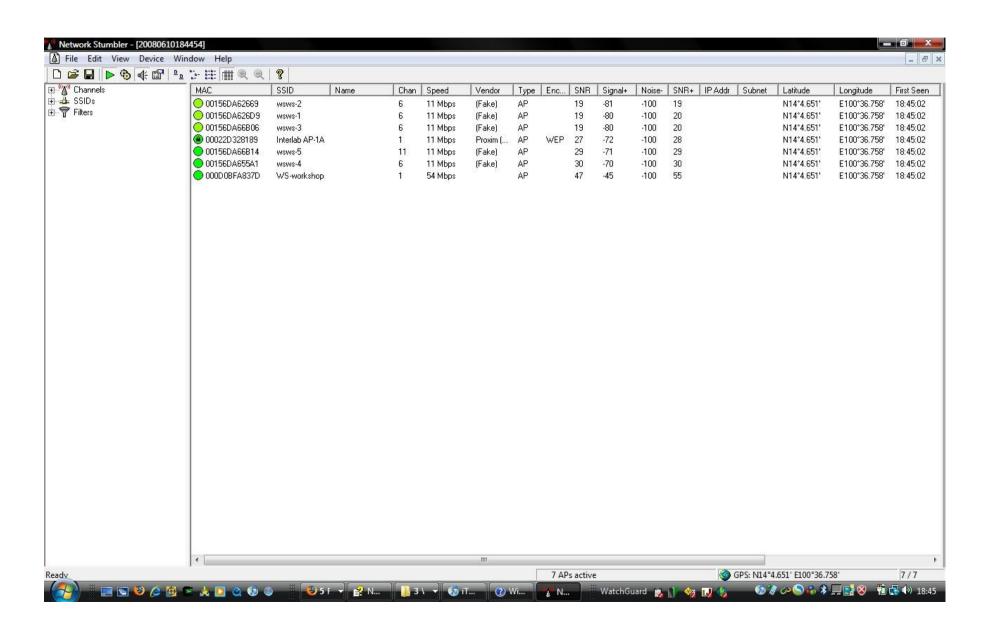
Wireless Tools

Joel Jaeggli For AIT Wireless Security Workshop

Tools

- NetStumbler
- Inssider
- Kismet
- Wi-Spy
- Embedded Tools in commercial APs
- AirSnort
- AirCrack (Ng)

Netstumbler (the granddaddy)



Netstumbler

- Windows APP
- Kicked off the notion of "war driving" the idea of driving around looking for open aps
- That's interesting but it's more useful as a survey tool.
- Not frequently updated anymore. As a result it's somewhat picky about the use of newer wireless cards and also it's a bit of a challange to get it to run reliably on Windows Vista.

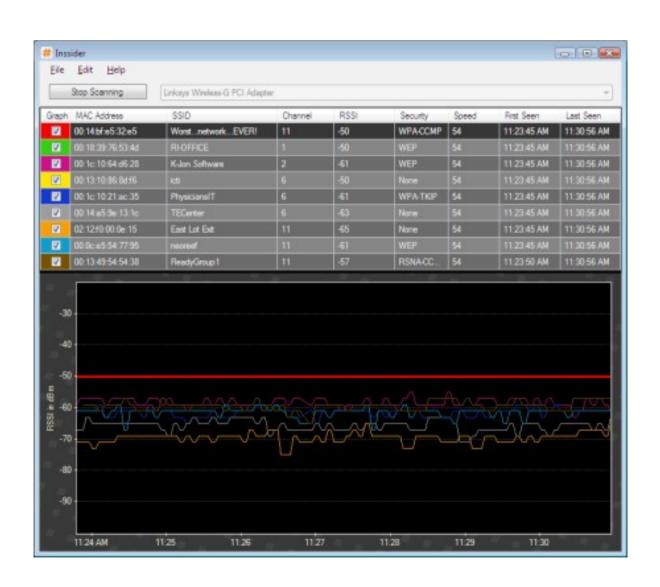
Netstumbler

• The addition of a GPS makes it useful RF surveys with 3rd party data reduction tools, which are unfortunately fairly rare and of indifferent quality.

Inssider

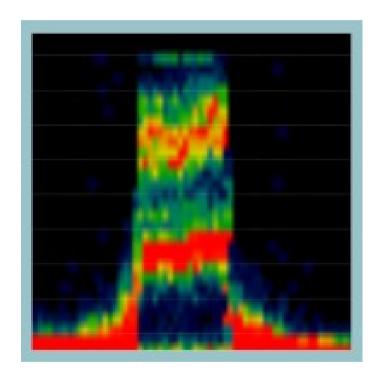
- Open source scanner developed at metageek
- Works well on Vista
- Supports a wide variety of chipsets
- No gps support yet
- Released march 2008

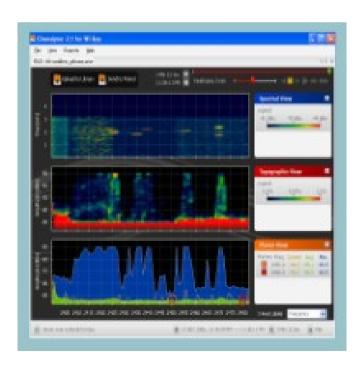
Inssider



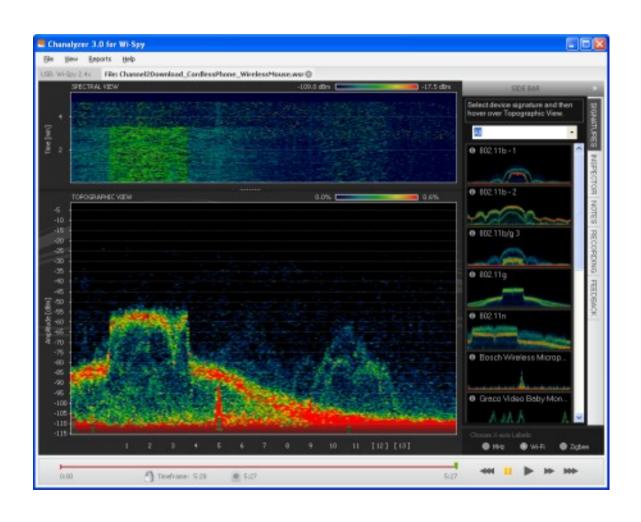


- Also from metageek
- When I first started shopping for wireless spectrum analyzers for the microwave band they were \$10,000
- Wi-Spy is \$399 or \$99 depending on version.







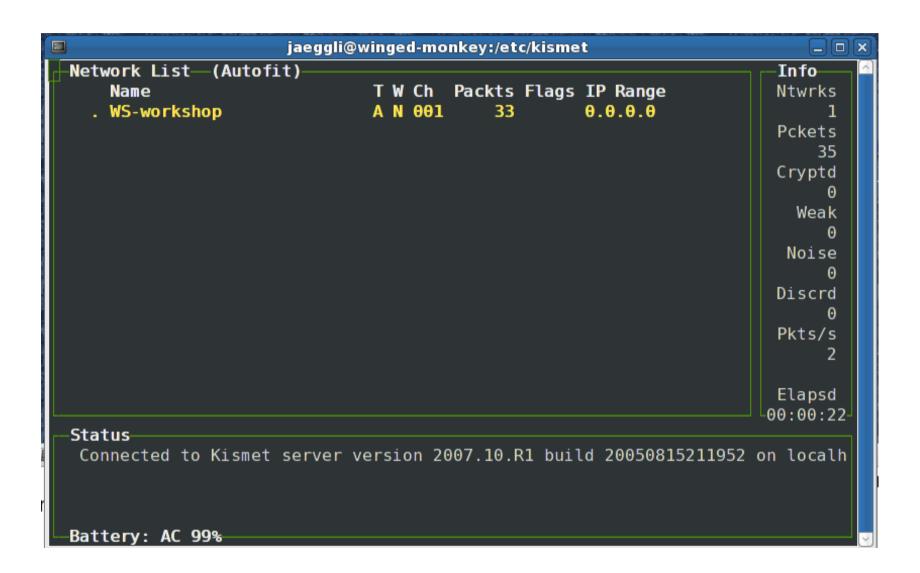


- Unfortunately no 5Ghz version
 - Sadly that piece of kit is still \$2500
- Spectrum analyzer is used in conjunction With a wireless survey tool and a other wireless survey tools

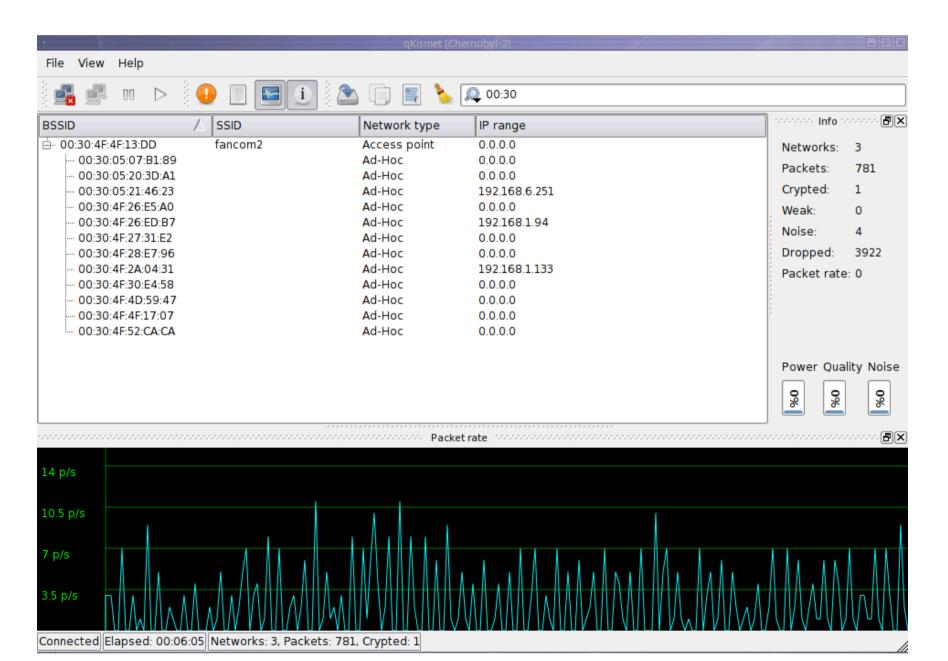
Kismet

- Kismet is:
 - an 802.11 layer2 wireless network detector
 - sniffer
 - and intrusion detection system
- Utilizes a client server model, which means
 - Distributed network probes
 - At tool you deploy into your network and leave ips services

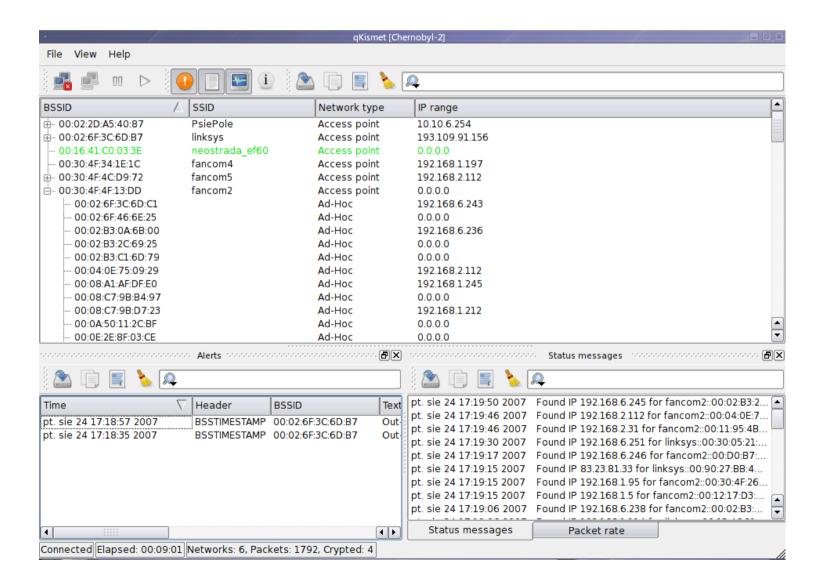
Kismet



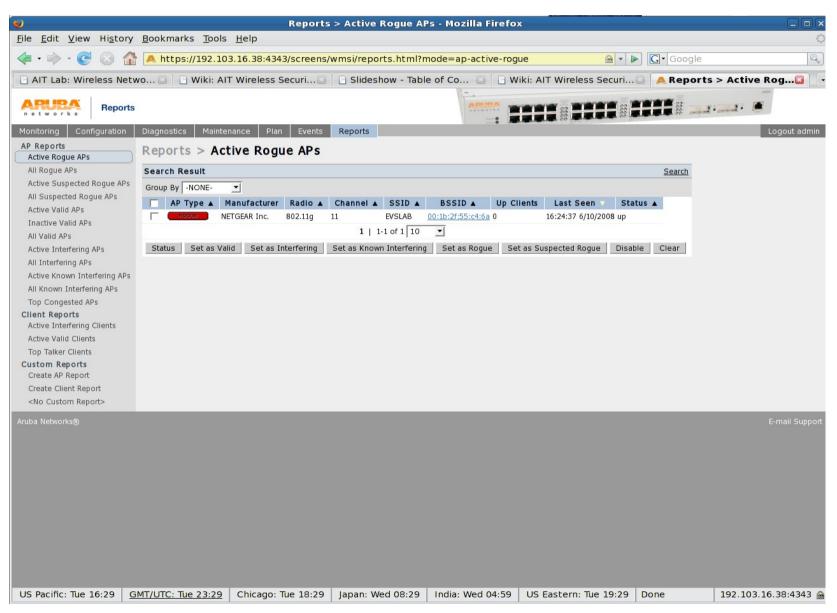
Third-party frontend qkismet



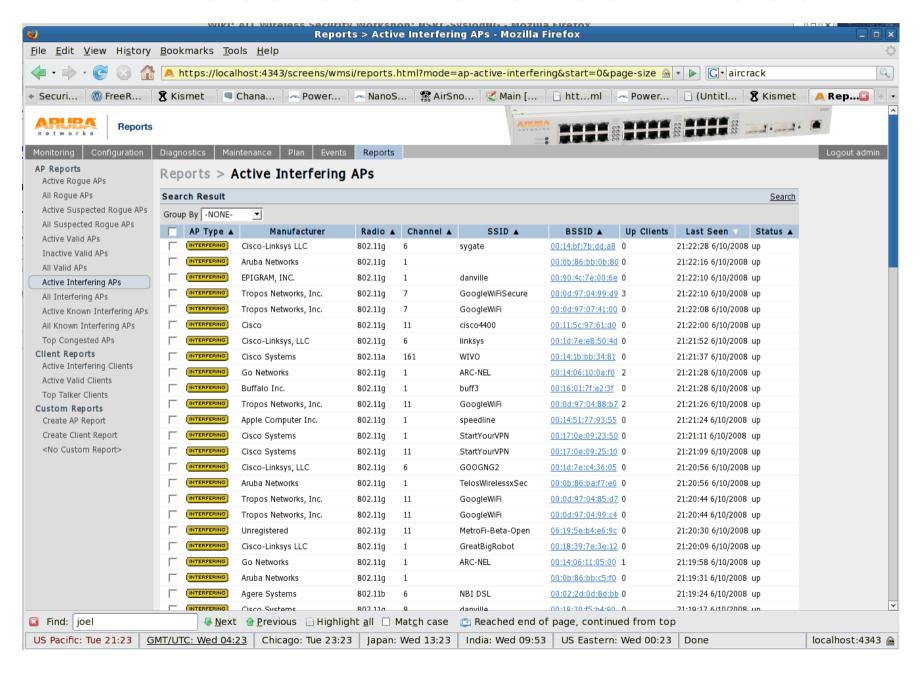
Third-party frontend



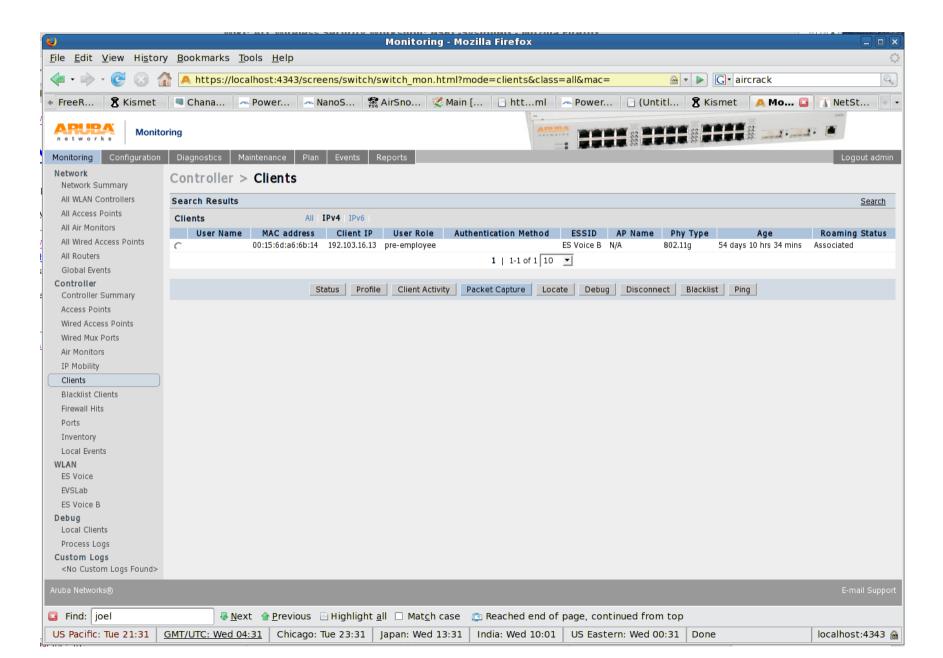
Embedded In your APs (Aruba controller example)



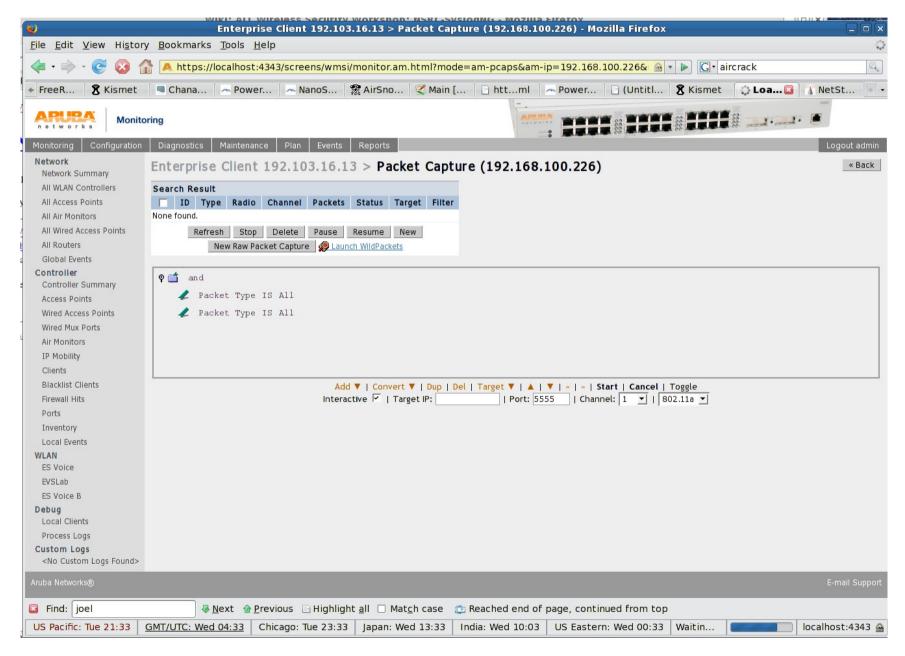
Aruba controller continued



Aruba client monitoring



Aruba packet capture



Airsnort and Aircrack (Ng)

- Airsnort is a passive sniffer that will recover wep keys
- The updated version of Aircrack will also do wpa-psk keys



