

Enterprise Network

The ACO lab has the capabilities to mimic enterprise level networking and application infrastructures with technologies such as:

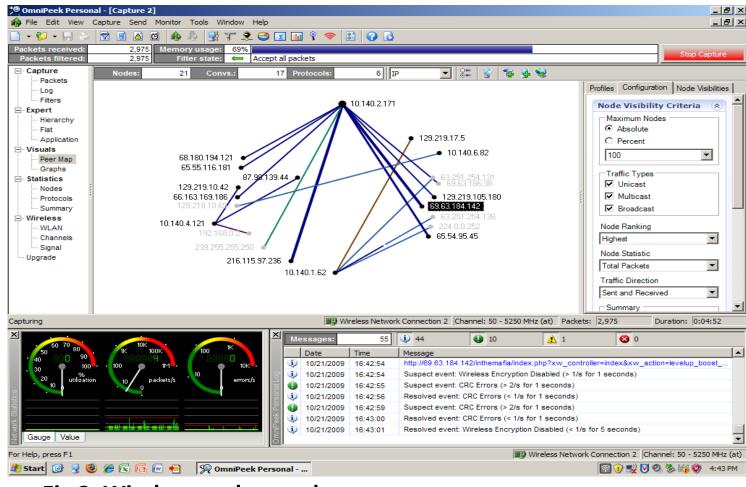
Interconnect:

-VPN, SSH, IPSEC, HTTP, DNS, DHCP, Firewall, Intrusion detection/prevention, Site to Site VPN, Wireless A/B/G communications

Client/Server and Peer to Peer application models -Enterprise level domain infrastructure, LDAP (AD), SMTP (email), Web/FTP servers, remote invocation, network monitoring.. Etc.

Wireless Network

-WLAN Network: 802.11a,b,g, handoff, WPA/WPA2, WEP -Sensor Network: MOTES, Programmable interface



Configurable Network Design and Testing Lab

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Fig 2. Wireless packet analyzer

Network Analysis Tools

-Wireshark LAN packet level parser

- -ACO network management packages
- -Omnipeek WLAN packet level capture
- -Cisco Sight Survey

-Cisco NetFlow SNMP interface management/measurement

Virtual Servers

-VMware ESX 4.0

Enterprise Level Domain Architecture Windows 2003 Active directory server Windows 2003 with Exchange 2003 VMware Image repository for lab environment templates

-VMware server

Host Linux client/server OS configurations

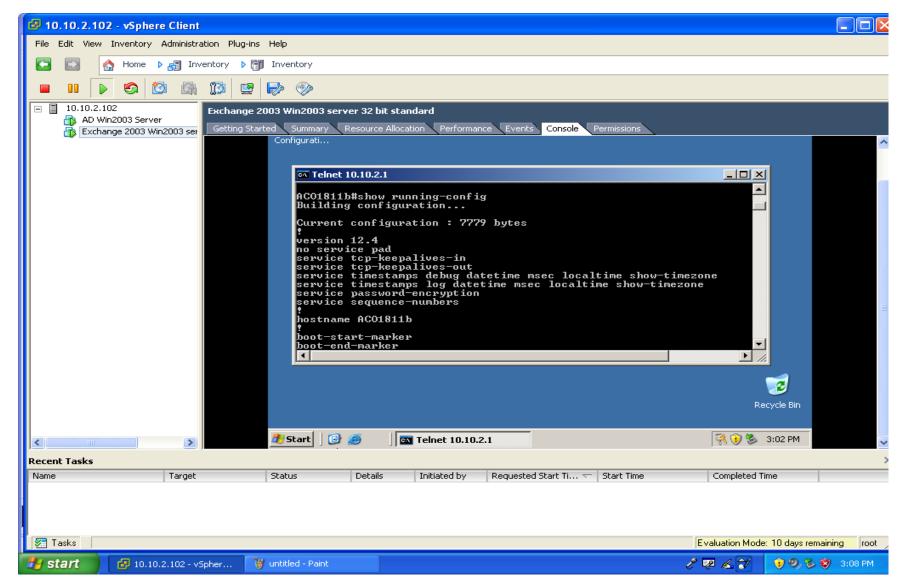


Fig 3. VMware Sphere client console connected to Windows 2003 server running telnet connection to Cisco 1811 router

