ECB3500 Sales kit

August, 2008

Senao Networks, Inc.

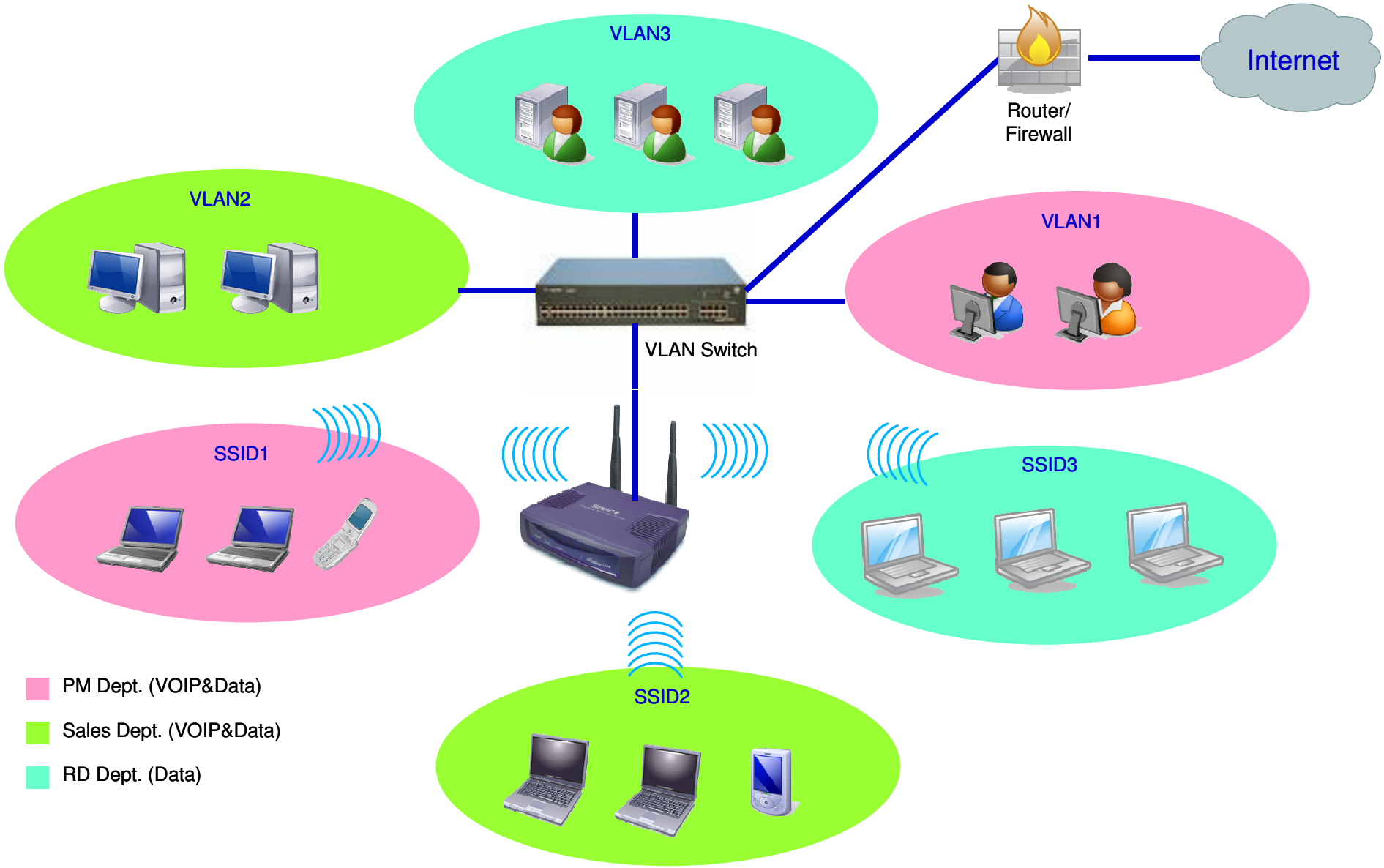
ECB-3500--Wireless Multi-function *7+1* AP

- Product Features highlight
- Application illustration
- Product Specification
  - HW spec
  - SW spec
- 3 times coverage + 108Mbps throughput

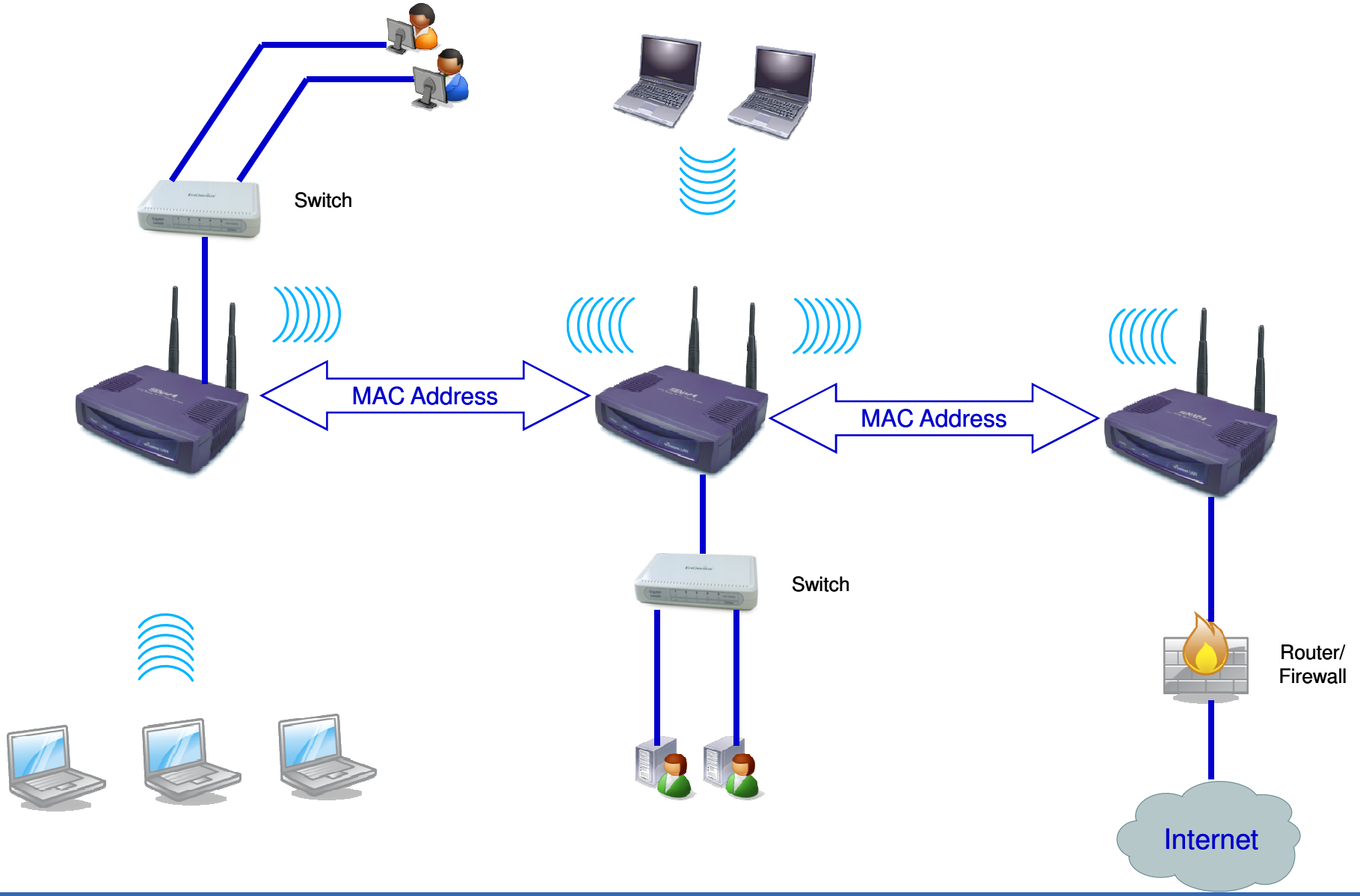
Product Features Highlight

- High output power up to 28dBm (600mW), transmit power controllable
- Super G support, high speed data rate up to 108Mbps
- 7 wireless operating modes support
  - AP/Client Bridge/Repeater/WDS AP/ WDS Bridge/Client Router/AP Router
- Differentiated services with multiple SSIDs
- 802.1x supplicant support (CB mode)
- Detachable antenna / antenna diversity support
- 802.3af PoE support
- QoS (WMM) support

Multi-function: Access Point

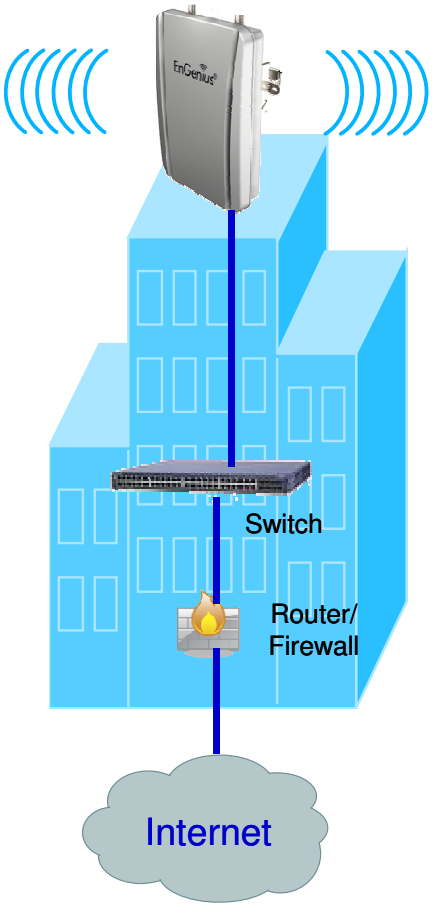


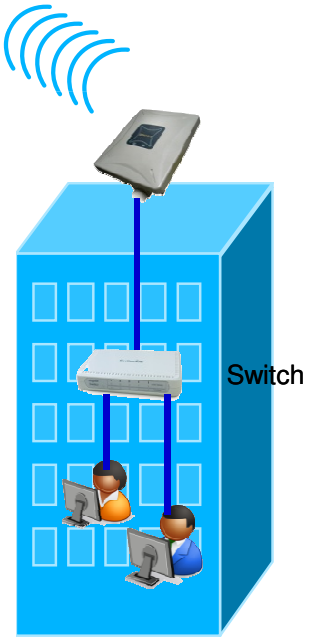
Multi-function: WDS AP



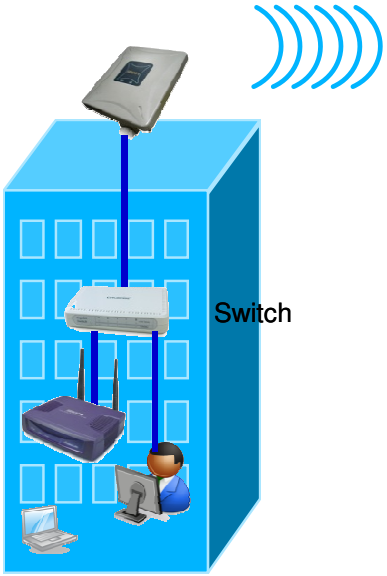
Multi-function: Client Bridge

Whole Networks in the same domain

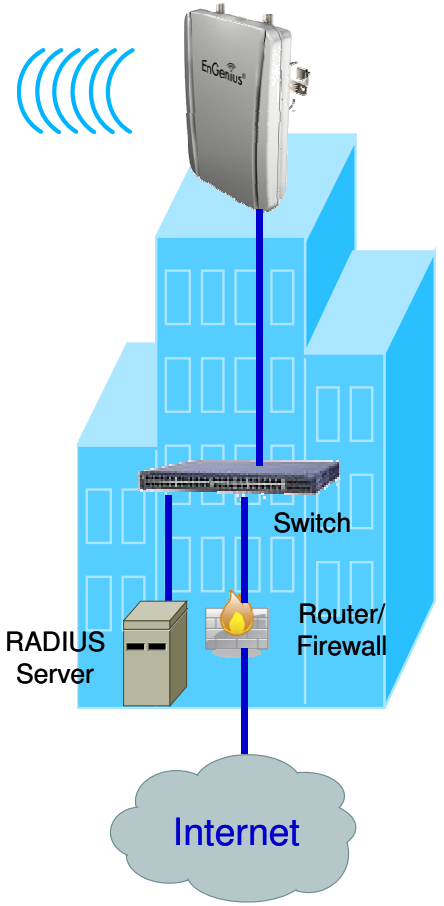




Multi-function: WDS Bridge (Transparent)

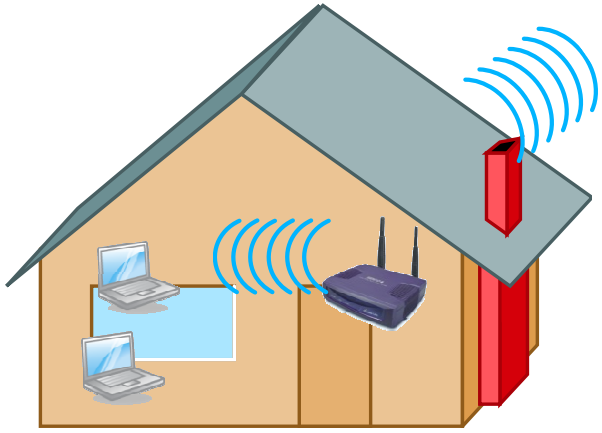


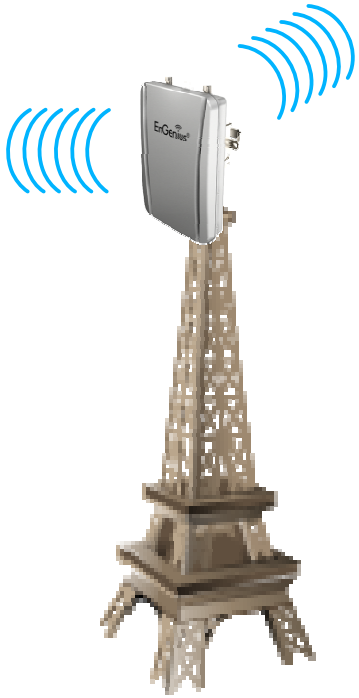
Full Transparent

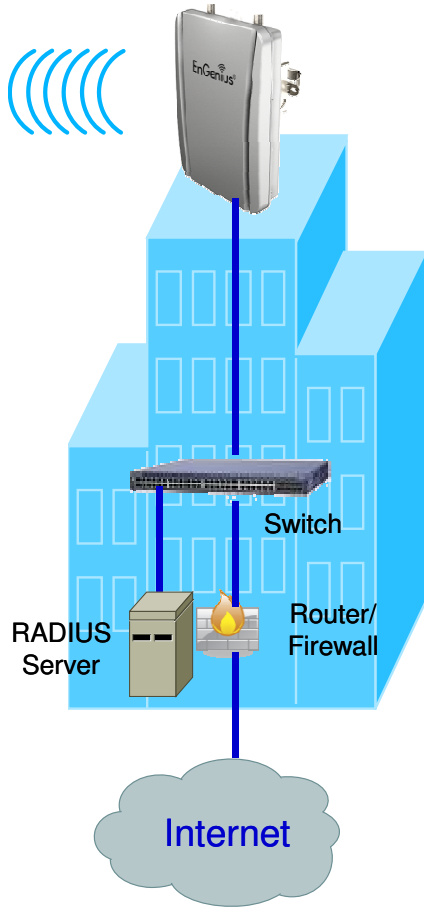


Multi-function: Universal Repeater

Range Extender using
the same SSID

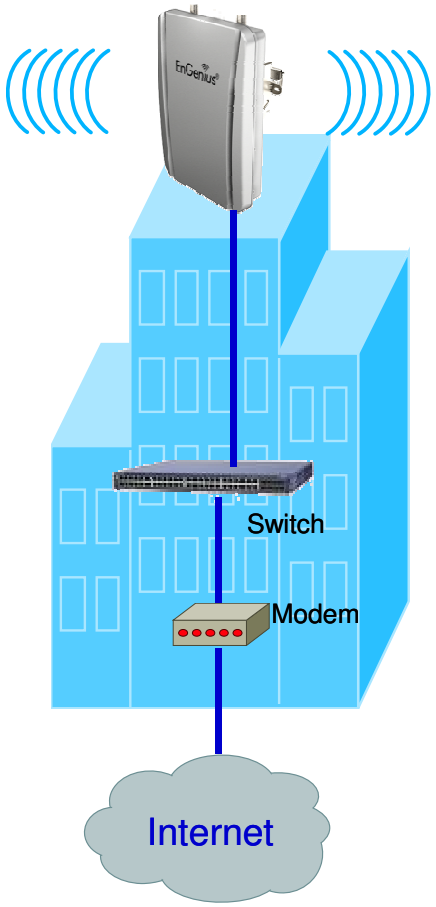






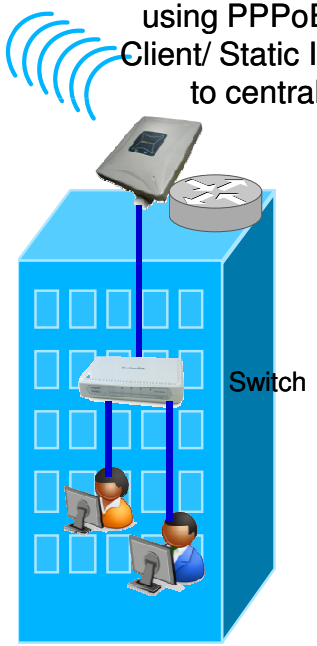
Multi-function: Client Router

Different domain
Networks for WISP



Working as a router,
using PPPoE/ DHCP
Client/ Static IP connect
to central side

Working as a router,
using PPPoE/ DHCP
Client/ Static IP connect
to central side



Product Specification

- **Model Name:** ECB3500
  - IEEE 802.11b/g
  - RF Output Power up to 28 dBm
  - Detachable Antenna (TNC Type) for different operation environment
  - Support Diversity function
  - 802.3af PoE support

- **System Architecture:**
  - CPU: AR2316 SoC with built in 2.4GHz radio
  - Memory

    Flash: 8MB

    DRAM: 32MB
  - Interface

    10/100BaseT Ethernet*1

    JTAG (for debugging purpose)

Software Features Cont.

- **Operating mode**
  - Access Point
  - WDS AP
  - Client Bridge
  - WDS Bridge (Transparent)
  - Repeater (Universal Repeater)
  - Client Router
  - AP Router

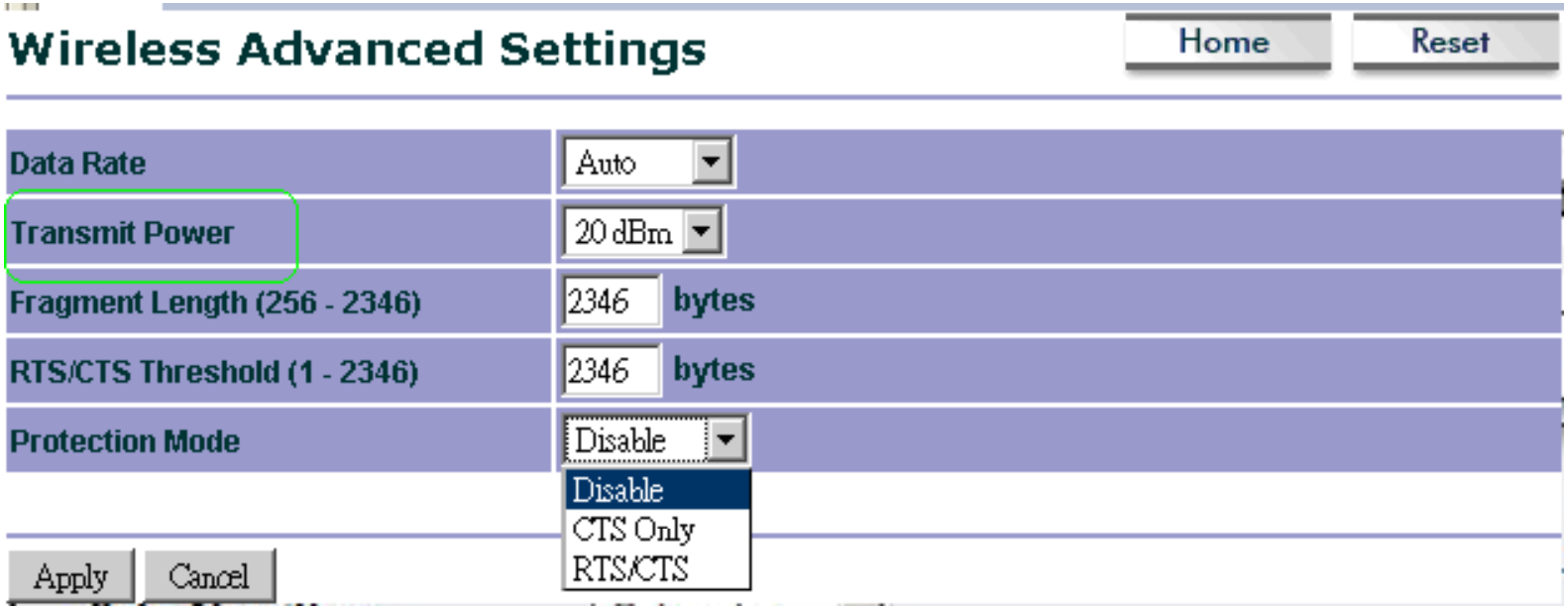
- **Security**
  - WPA / WPA2/ WEP Encryption support
  - 802.1x Authentication support (AP mode)
  - 802.1x Supplicant (EAP-TLS/EAP-TTLS/PEAP) (CB mode)
  - NAT (Port Forwarding)
  - Hide SSID
  - L2 Isolation
  - MAC address filtering (up to 50)
  - Multi-SSID (4 SSID)+VLAN tagging

Software Features Cont.

- **Configuration**
  - RSSI indicator
  - Act Timeout setting
  - Bandwidth selection

- **Management**
  - SNMP v1/v2c, MIB I/II and Private MIB Support
  - Telnet/ Web configuration
  - Bandwidth Measurement
  - WAN port Bandwidth management
  (Inbound/Outbound Bandwidth Setting)
  - Remote HTTP Management
  - Web re-direct

Flexible settings in the GUI



Transmit Power control:

You may have the different application distance of the device.

This feature can be helpful in restricting the coverage area of the wireless network.

RTS Threshold:

Packets over the specified size will use the RTS/CTS mechanism to maintain performance in noisy networks and preventing hidden nodes from degrading the performance.

3 Times Coverage + 108Mbps throughput

High Power AP

1200m

28dBm/ 23dBm

High Power USB

High Power AP

800m

28dBm/23dBm

Normal Power USB

D (distance)=f (Power, Sensitivity, Antenna Gain, Cable Loss)

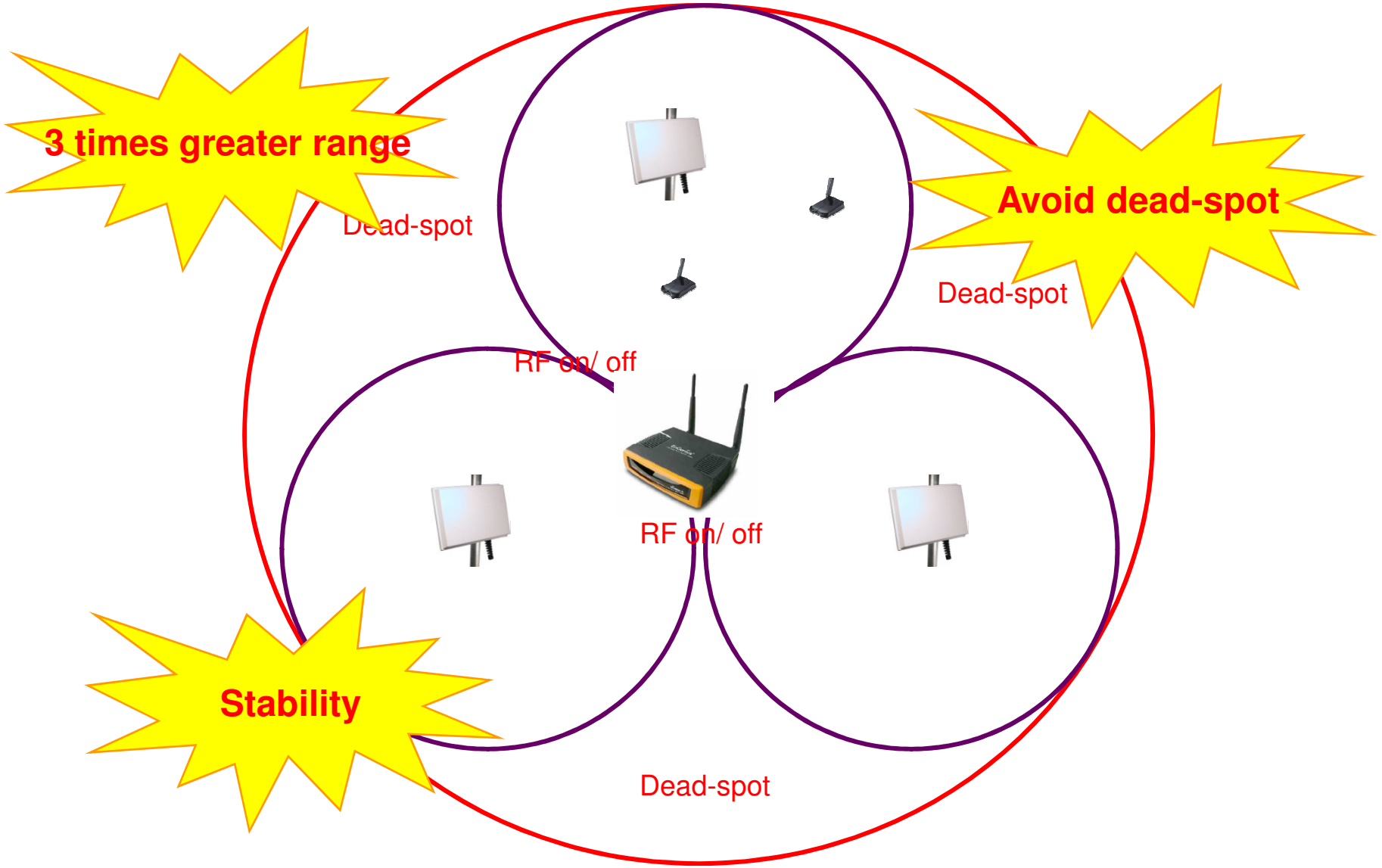
Normal Power AP

400m

18dBm/ 18dBm

Normal Power USB

3 Times Coverage + 108Mbps throughput



Conclusion

- Best choice for enterprise level products
- Transmit longer, speedy and better signal quality.
- 7 wireless modes for different environments.
- EnGenius makes the wireless into practical road for better way of access to Internet.

Q&A

Senao Networks, Inc.