

VLAN configuration in a wireless environment

RoamingWire Inc.

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About Us

- RoamingWire Inc.
 - Helps organizations maximize network ROI
 - Government and business clients
 - Full service shop (hardware/software/consulting)
 - Multiple countries and languages
 - Compliance testing, design, and deployment
- Mason Ham
 - Founder/Client Project Manager
- Paul Eriksson
 - Founder/Chief Network Architect

Agenda

- Why VLANS
- WDS vs. Routing
- Core setup
- Single Hotspot Model
- NetInstall
- Demo system

Why VLANS?

- Segment traffic
- Join remote networks securely and simply
- Provide for unique traffic shaping opportunities (firewalls, QoS, etc)
- Simplified remote maintenance

WDS vs. Routing

- WDS (Wireless Distribution System) provides for wireless “switch” type setup. Each node can communicate with every other node as though they were a port in a single switch.
- WDS runs at the OSI layer 2.
- WDS is transparent to VLAN tags
- Routing runs at the OSI layer 3.

Hardware

- MT for backbone, hotspot, and user management
- LinkSys cost effective managed layer 2 switch with small form factor
- HP laptops ... just cause

Core Setup

- WDS with WPA2-EAP
- VLANs
 - Management(2)
 - SNMP
 - Network supervision (Dude, Nagios, etc)
 - Hotspot(5)
 - Ad hoc client access
 - Customer(10)
 - Single point connection for a known customer
 - Corporate(11)
 - Owners network

Single Hotspot Model

- Single point of failure reduction
- Complexity reduction
- Single Hotspot is easier to protect
- Single Hotspot multiple access points is easier to maintain
- More control of network ingress and egress
- Single place to put filters and other scarce or expensive resources

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Questions?

