

# The Network-Centric Wireless LAN

Cisco.com

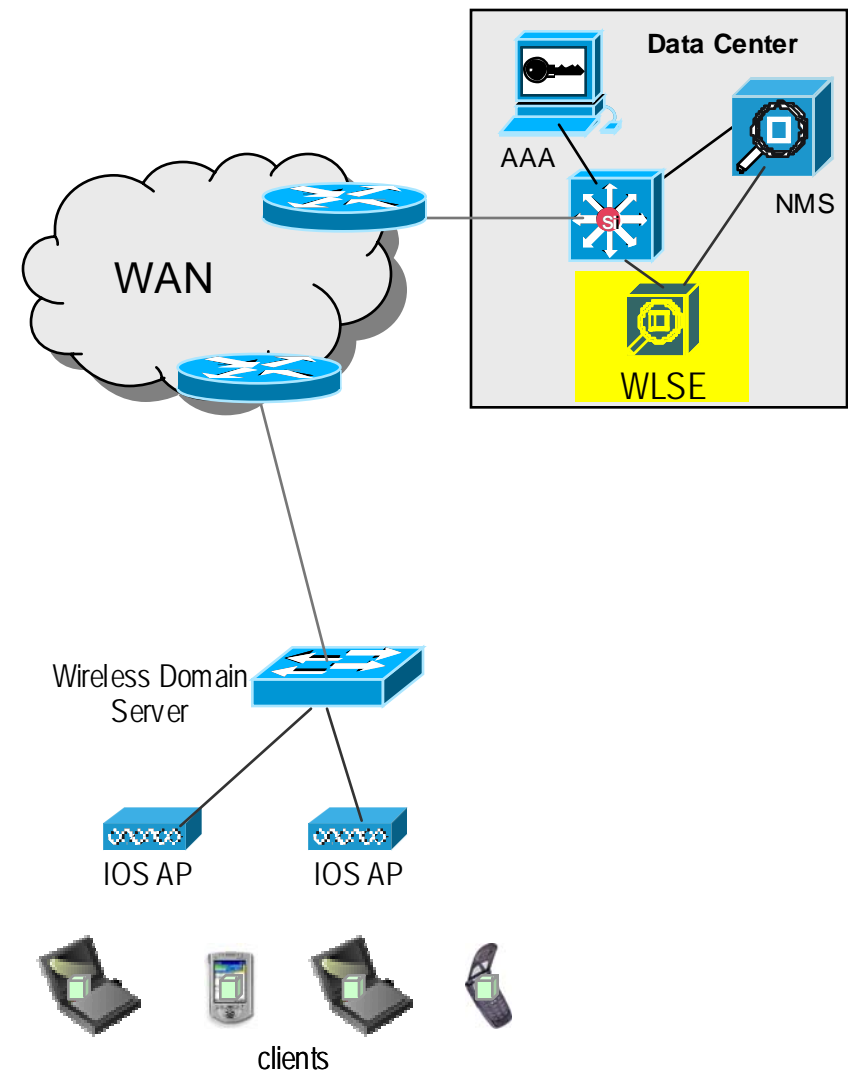
**Ron Seide**  
**Senior Product Line Manager**  
**Wireless Networking Business Unit**  
**Cisco Systems**

**[rseide@cisco.com](mailto:rseide@cisco.com)**

# Cisco's Approach: The Structured Wireless Aware Network

Cisco.com

- **Wireless LAN Solution Engine (WLSE) provides AP management**
  - Unattended en mass upgrades and configuration changes
  - RF management like rogue AP detection, site survey assistance
  - Supports up to 2500 APs
- **Wireless Domain Server (WDS) aggregates, localizes data**
  - WDS functionality currently available on IOS APs, going forward on IOS switches and access routers
- **IOS APs provide wireless edge services e.g. client connectivity, RF scans, 802.1x port blocking and QoS packet prioritization**
  - Cisco and Cisco Compatible clients optionally contribute RF scanning data
  - Cisco APs provide leading range and throughput for best coverage and capacity



# Advantages of the Structured Wireless Aware Network

Cisco.com

- Integrates wireless into existing network for reduced costs, scalability
- Delivers next generation features like rogue AP detection, network self healing and site survey assistance
- Hybrid approach distributes functionality and intelligence where needed for specific application requirements, for example:
  - **Centralized** storage of RADIUS authentication credentials for security and ease of administration
  - **Centralized** WLSE management and monitoring for network-wide visibility, enterprise scalability
  - **Localized** encryption key management for fast, secure roaming
  - Packet prioritization **at the wireless edge for low latency** and better voice support
- Leverages existing hardware, tools and expertise
  - WDS is a software feature available on a growing number of IOS devices
  - IOS access points both provide connectivity and continual scanning for rogue APs, environmental changes, etc.
  - Familiar IOS interface decreases training time, leverages existing scripts and network management tools

