

How to Guarantee the Availability and Performance of your Wireless Network



About CBO

- Channel Services Partner
- WLAN Planning and Deployment
- Consulting and Project Management
- Multi Vendor Design and Integration
- Certified Design and Field Engineers



Guarantee Your Wireless!!!

- Understanding Performance and Availability
- Choosing the Right Product
- Using the Right Tools
- Know your RF Domain
- Identify and Plan for your Weaknesses



Performance and Availability

- Best Effort vs. Business Critical
- Availability != Performance
- Facts about your Wireless User
 - If there is signal, it should work perfectly!
 - Where is my bandwidth?
 - It worked here before!



Owning your Airspace

- Know your RF Domain
- Understanding the Technology
- Using the Right Tools
- Identify your Edges
- Intrusion Detection and Protection



Technology Choices

- 802.11n - Wi-Fi Alliance Draft 2.0 Certified
- Centralised Wireless Solution
- Documented Interoperability in the Enterprise
- Wireless Voice Ready
- Trusted Vendor Support



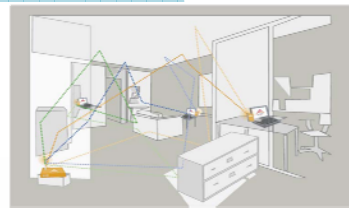
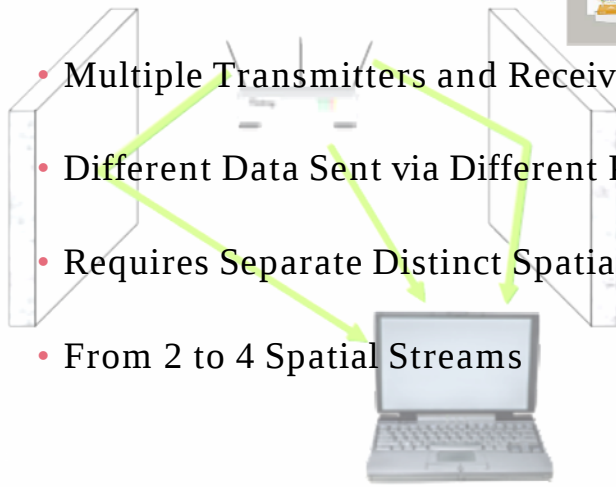
Wi-Fi Alliance and Draft 2.0

- Pre-N or Draft 2.0 Certified?
- Testing Began June 2007
- Testing Lab Verifying Against 7 Tier 1 Vendors
- Mandatory Key Baseline Certification Features



802.11n and MIMO

- Multiple Transmitters and Receivers
- Different Data Sent via Different Paths
- Requires Separate Distinct Spatial Paths
- From 2 to 4 Spatial Streams



Design Deploy and Maintain

- Predictive and Active Site Surveys
- Cabling and Meshing
- Indoor and Outdoor
- Integrating with your Switched Network
- Centralised Management and Support



Vendor Design Tools

- Early Planning for AP Density
- Helpful for Budgeting
- Existing Tools with your Centralised Solution
- Known Performance Attributes of their Product
- Helps Prepare Wireless Survey Scope

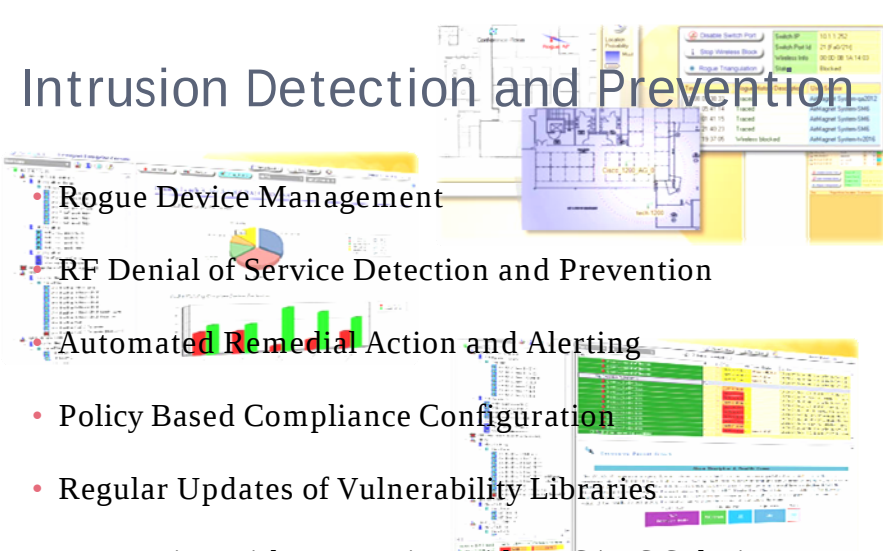


Supporting the Solution

- 
- Centralised Management Interface
 - RF Packet and Spectrum Analysis Tools
 - Vendor Whitepapers for Solutions and Technologies
 - Documented Interoperability Guidelines
 - Clear and Non-Technical User Information Pages



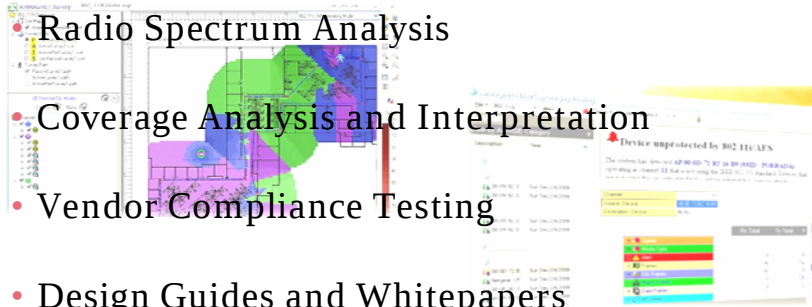
Intrusion Detection and Prevention

- 
- Rogue Device Management
 - RF Denial of Service Detection and Prevention
 - Automated Remedial Action and Alerting
 - Policy Based Compliance Configuration
 - Regular Updates of Vulnerability Libraries
 - Integration with Enterprise Wide IDS/IPS Solution

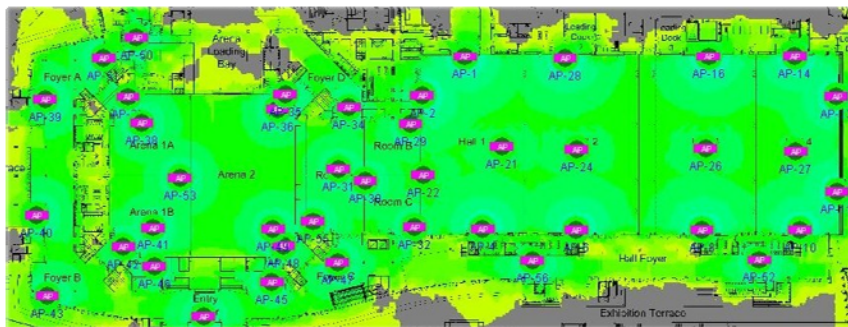


Troubleshooting Wireless

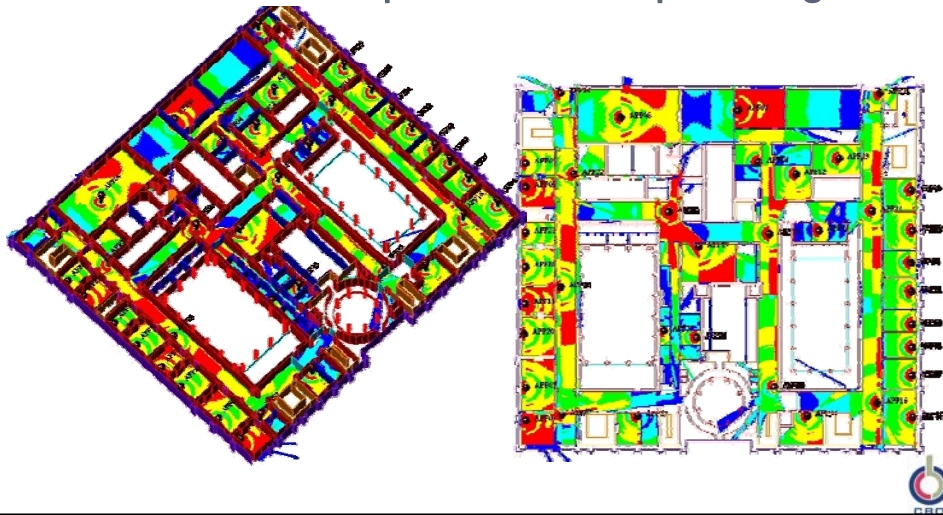
- Packet Capture and Analysis
- Radio Spectrum Analysis
- Coverage Analysis and Interpretation
- Vendor Compliance Testing
- Design Guides and Whitepapers



802.11n Coverage Density



802.11n and Spatial Multiplexing



Planning for the Future

- Vendor Committed to 11n Final Standard
- Meshing and Voice over Wireless LAN
- Converged Devices
- Location Tracking
- Intrusion Detection and Protection



Questions?

