

WLAN Site Survey

Perhaps the most important implementation step is the radio frequency site survey. This process ensures that the deployed wireless network will meet or exceed the performance and reliability requirements identified in the design phase. While many consider the RF Site Survey the design phase of a wireless network deployment, our belief is that this step can only be successful if it is performed with a predefined set of requirements and expectations in place. These requirements, which are defined in the design phase, become the parameters for the site survey, thus making the site survey the first step of implementation.

Why Survey?

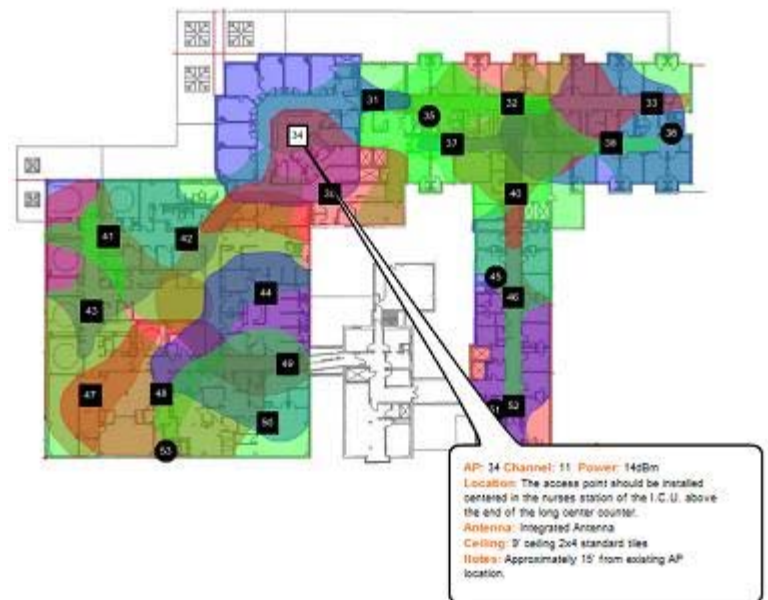
Wireless networks are continuing to shift away from a single application system toward a more comprehensive, robust multimedia network platform. Modern WLAN dependant applications such as wireless VoIP, live video and location-based services require a site survey that considers the requirements of each technology.

A poorly designed wireless infrastructure can negatively impact the deployment of your wireless dependant application, even in the pilot phase.

The Survey Process

The information collected in a WLAN Site Survey comprises the physical aspects of the network. This includes access point mounting locations, antenna selection, and radio specific details such as operating frequency and transmission power. The RF signal propagation of each access point is meticulously documented and spectrum analysis is performed to identify potential sources of interference which may need to be avoided or eliminated.

Our site survey findings are documented and delivered in a complete RF Site Survey Report which provides the information necessary to install network cabling, procure hardware, and ultimately deploy the network. This report is accompanied by an Interactive RF Site Survey Report. This unique deliverable, provided with each site survey we perform, allows for a much deeper understanding of the wireless propagation than a static report.

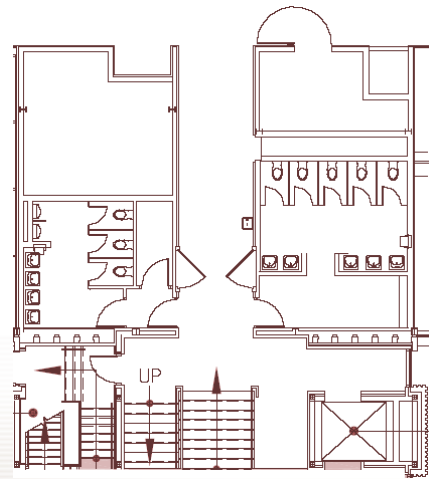


Cumulus offers the only interactive site survey report; a software application that allows the user to interact with the access points.

Why is VoIP different?

Few network applications dictate WLAN design the way VoIP does. Common networked applications such as email and web browsing have mechanisms to deal with problems like network latency, and often these problems go largely unnoticed by users. However, when network problems are present with a VoIP application they are audibly detectible as poor voice quality or result in dropped and missed calls. Problems which are simple nuisances for wireless laptop and PDA users become critical barriers to VoIP usage.

Whether designing a wireless network from the ground up to support VoIP, or adding VoIP capabilities to an existing network, our consultants draw on their vast experience to provide a solid foundation for wireless VoIP.



Areas such as bathrooms, staircases, and elevators typically require coverage in wireless VoIP deployments.

Additional Services and Support

- **Wireless Network Design** - Wireless network design based on your specific requirements provides needs analysis, infrastructure recommendations, architecture design and security analysis
- **Wireless Client Device Selection and Integration** - Our consultants have extensive experience with client devices ranging from industrial data collection computers through PDA and voice equipment.
- **nine Suite of Managed Services** - Minimize the burden of WLAN expansion on an organization while delivering highly reliable support services in a cost effective manner. From real-time monitoring and alerting to change management to end-user support - Cumulus covers all aspects of managing your WLAN.
- **Fixed Point Wireless** - Fixed Point Wireless (FPW) solutions comprising Point-to-Point, Point-to-Multi-Point, and Mesh topologies have emerged as an attractive alternative to traditional private and leased connectivity.

About Cumulus

Cumulus Consulting Group is a leading professional services organization that specializes in wireless network design and consulting services. Cumulus consultants have been integral in the deployment of thousands of indoor and outdoor mobility solutions across virtually every business environment including enterprise, government, pharmaceutical, healthcare, manufacturing, logistics and education. Leveraging extensive experience with wireless infrastructure and mobile data collection devices, Cumulus is uniquely positioned to design, deliver and support the mobility solution that is right for your business. For more information about our company and our solutions, please visit <http://www.cumulusgroup.com>.



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