

Network Advisory Services: Post-Installation Wireless Site Survey

As part of Carousel's Network Advisory Services, the Post-Installation Wireless Site Survey promotes an excellent user experience and optimizes wireless solution investment by examining the coverage of an existing wireless network. This survey is performed on-site by Carousel engineers at the client site under consideration. After completion of the site survey, a thorough analysis is provided, along with detailed existing wireless access point (AP), along with any applicable recommendations to remediate problems or further optimize wireless performance.

YOUR CHALLENGES

- Inflexibility of existing wireless network for today's mobile worker
- Inability to deliver services consistently over wireless network
- Obstructions throughout site that interfere with wireless
- Anticipation of new applications, like voice/video, location, and wireless analytics services with concern the network cannot adequately support
- Quality of experience for existing users of wireless network does not meet expectations

GOALS AND BENEFITS

- Immersive, active on-site analysis of the proposed environment, providing the most accurate measurements for creating coverage heat maps
- Recommendations of AP addition, re-location, or deletion to ensure effective handling of the most demanding applications and services
- Depending on circumstances, a review of wireless controller settings may be recommended
- A spectrum analysis will be performed to identify any wireless interference sources that may adversely affecting WLAN performance
- Summary outlining necessary steps to improve existing WLAN and ensure that quality of experience is maximized for all wireless users

APPROACH AND ACTIVITIES

Our Post-Installation Wireless Site Survey methodology includes a combination of on-site and off-site engineering analysis and deliverables. Carousel engineers will visit the site under consideration to perform the on-site survey. The process may contain any of all the following activities:

- AP coverage and signal strength will be measured and plotted on floor plans.
- Factors that influence wireless performance such as architectural features, building materials, and interference sources will be measured and recorded.
- Depending on circumstances, a review of wireless controller configuration may be recommended.
- A spectrum analysis will be performed to identify any sources of interference on-site.

- Once the on-site work is complete, Carousel engineers will work off-site to analyze the site survey data.

A deliverable will be prepared, summarizing the site survey results. The design deliverable will include at a minimum:

- Heat-map (depicts existing wireless coverage and data rate overlaid on floor plans)
- Validation and optimization notes (suggestions for any applicable improvements)
- Suggestions regarding adding, removing, or moving APs, if applicable
- Spectrum analysis results

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