

Wireless

The percentage of network traffic flowing over wireless networks is expanding every day. The benefits it provides with portability and flexibility expand the opportunities to stay connected. However, this technology does not come easily. There are several important elements to establishing and maintaining a wireless network. For those just getting started or looking to expand coverage, RNS offers a complete set of Wireless Solutions. The Wireless Site Survey will provide the proper design for your needs. Our wireless implementation services will ensure the proper installation, configuration and testing of your wireless network. Additionally, whether you are introducing wireless into your network for the first time, or have had it for years, our Wireless Security Analysis helps you manage security risk within your wireless environment. The Wireless Solutions offer a complimentary mix of deliverables that address your level of need based on the current state of wireless within your network environment. A complete Wireless Solution would include a Wireless Site survey, the Wireless Implementation and the Wireless Security Analysis. Your particular needs may call for all three of these or only one or two of them. Omni Tech would be pleased to engage at whatever level you choose.

Wireless Site Survey

A Wireless Site Survey is generally done for new wireless network installations or major expansions of an existing wireless coverage area. The purpose of the Wireless Site Survey is to determine the coverage requirements and limitations, as well as establish a configuration framework and specifications. Our technical team works on-site in your intended coverage area to identify the quantity and placement of the necessary wireless hardware. We test the placement of access points and record

output levels. The survey also addresses power and interference issues. In discussing how you will use the wireless network, we will set configuration guidelines that will be used at time of installation.

Deliverables include a physical layout diagram of the wireless network and a complete recommended equipment list.

Wireless Implementation

The Wireless Implementation Project involves installation of the wireless networking equipment. This includes setup and installation of all access points and any associated radio modules. The implementation project would also verify connectivity from wireless clients and testing throughout the coverage area. At the conclusion of the implementation, you would be given final authentication model documentation. The documentation contains the specific configuration and security settings on each access point, a diagram of all cable routes and physical access point locations by port number, and a listing of signal strength test results from multiple locations within the site and multiple exterior points.

Wireless Security Analysis

The Wireless Security Analysis is applicable to new wireless implementations, expansions or even when you are not making any physical design changes but are simply interested in evaluating the security of your wireless network. The Wireless Security Analysis has five main components. These components are a review of your goals, policies, vulnerabilities, infrastructure, and administration as each relates to your wireless environment. Each will be presented in a final documented deliverable that is given to you at the end of the analysis. To understand the goals you have, our security team will review a series of questions regarding how you plan to use your wireless

environment and the kind of access you wish to provide end users. A review of your existing policy and/or a discussion regarding new policy will help to determine configuration requirements of the wireless equipment as well as establish the policy of access and use of the wireless network.

The third component is vulnerability identification. This involves testing access points and the entire wireless infrastructure for configuration and management issues. It also includes a physical evaluation of the security of the access points and related wireless equipment. The infrastructure analysis takes a look at the design and capabilities of the wireless network. We are looking if you have the right equipment, if it is configured properly, and if the layout is designed to support your security goals and policies. Lastly, the administration component consists of a review of the processes and procedures being used to maintain your wireless network, to authenticate users to the network, and to respond to security incidents. Specific recommendations for changes and additional comments will be made; including discussion of costs relative to objectives and where it might be appropriate to make trade offs and still meet your needs. Remote Network Support understands wireless networking very well and has the technical staff and experience to help you realize the advantages of wireless in your environment.