

# Wireless Security Assessment and Penetration Test

## Solution Overview

Wireless networks provide several advantages for expanding network capabilities, but are at high risk to becoming a source of vulnerability within an organization's information system. Configuration and implementation problems can lead to unauthorized access to sensitive information or networks; often without the intruder even setting foot inside the building. Therefore, wireless networks require close monitoring and periodic assessments to mitigate the exposure to security threats.

IT Security Compliance regulations and guidelines (GLBA, FFIEC, FDIC, OCC, OTS, NCUA) require an organization to conduct independent testing of the Information Security Program to identify vulnerabilities that could result in unauthorized disclosure, misuse, alteration, or destruction of confidential information, including Non-Public Personal Information (NPPPI).

TraceSecurity offers an **Onsite Wireless Security Assessment and Penetration Test** that can provide your organization with a detailed look at the current risk of your wireless implementation. Our Security Analysts take on the role of a hacker and attempt to penetrate onto the wireless network. Once on, the analyst attempts to compromise systems and information through ethical hacking method in order to evaluate the implementation and deployment of the wireless infrastructure. When completed, our analysts make recommendations and consult with the organization to develop strategies for reducing risk exposure.

### TraceSecurity's Wireless Security Assessment and Penetration Test follows documented Best Practices security testing methodology including:

- **Scoping & Rules of Engagement**
- **Onsite External Wireless Scanning**
- **Analysis and Identification of Attack Vectors**
  - System & Signal Encryption Testing
  - Service/Access Probing
  - Signal Strength & SSID Testing
  - Exploit Research
  - Identify Access Points, including Rogue
- **Manual Vulnerability Testing and Verification**
- **Wireless Device/Server Configuration Review**
- **Wireless Policy Review**
- **Wireless Topology Mapping**
- **Immediate Notification of Critical Risks**

### The Wireless Security Assessment and Penetration Test results are provided in an extensive report containing:

- **Executive Summary**
- **Business & Technical Risks and Recommendations**
- **Wireless Assessment Methodology**
- **Wireless Security Issues Listed by Risk and Areas of Concern**
- **Details & Exposure of Wireless Vulnerabilities**
- **Enumeration of Successfully Penetrated Systems**
- **Counter Measures**
- **Appendix Examples**

TraceSecurity's Wireless Security Assessment and Penetration Test also includes on-demand access to TraceReport, a specialized module of **TraceSecurity Compliance Manager** for on-demand board, auditor, and technical reporting.