

Security Alliance provides a complete portfolio of world-class information security services.

## Wireless Network Penetration Testing

Identify, minimise and manage your wireless network vulnerabilities



Wireless networks are becoming more and more prevalent in organisations of all sizes. They enable new ways of working, including the use of hot desks, and also provide access across your premises to the corporate network, from laptops, pocket computers, electronic notebooks and PDAs. But these networks can be full of security weaknesses and extremely vulnerable to attack.

**Security Alliance offers wireless network penetration from one of the leading providers in the UK to enable you to identify, minimise and manage the security vulnerabilities associated with your wireless network.**

We review your wireless network for existing security vulnerabilities, such as susceptibility to a denial of service attack, access point cloning, frequency jamming and platform hijacking. We map the perimeter of your network and test the integrity of your encryption keys and authentication mechanisms. Once completed, we issue a comprehensive report of our findings with simple and cost-effective measures to significantly minimise the security risk to the data on your wireless network.

### We will identify and test:

- All authorised and unauthorised access points.
- Existing access vulnerabilities.
- Network encryption integrity.
- Authentication methodology.
- Interception, monitoring and insertion vulnerabilities.
- Access point cloning vulnerabilities.
- DoS, jamming and platform hijacking vulnerabilities.

continued over...

Risk  
Assessment

Security  
Architecture

Policy  
Review

Data Leakage  
Assessment

**Security Testing  
Services**

Compliance &  
Certification

Forensics &  
Investigation

Training &  
Awareness

Managed  
Security Services

**Our wireless security testing will comprehensively survey internal and external network security and maximise the integrity of your wireless transmissions.**

**Typically, our wireless security audit will comprise:**

- A wireless security review and risk analysis of your network. This will include identifying all authorised and unauthorised access points and associated wireless cards, range extenders and high-gain antennae.
- A security penetration test to identify security vulnerabilities and associated risks, and recommend the implementation of new controls or modifications.
- Identifying the number of wireless access points and the associated channels broadcast.
- Analysing wireless broadcast data which could be used to identify the organisation. This will include the SSID and network name, which is sometimes left as the default setting of organisation name, street address and postcode.
- Verifying if WEP is enabled, the bit key used, and whether the encryption can be cracked.
- Identifying the scope for unauthorised access to the network through packet sniffers; modifying the settings if weak passwords are used.
- Assessing the potential for unauthorised access using client-to-client attacks and inserting rogue access points.
- Discovering the potential for Denial of Service (DoS) and jamming through the use of rogue access points and broadcasting on the same channel as the organisation's network.
- Identifying the potential for inserting unauthorised access points and clients within the organisational unit, and instigating change control and regular wireless reviews to enforce your policy.
- Recommending security improvements to the network, including correct position of access points and range extenders to avoid excess wireless emanation beyond the corporate boundary; design a change management programme upgrading the wireless network.
- Recommending enhancements for the security of wireless traffic over WEP, such as client-based personal firewalls and VPNs.

**Security Alliance has selected Orthus for wireless testing services as part of its complete portfolio of market-leading information security services from specialist providers.**

Orthus is one of the leading UK-based providers of information security services, assisting enterprises in securing their digital information globally. It specialises in the design of innovative and effective solutions using highly-trained and experienced information security professionals. The key value it brings to our customers is an independent assurance of the reasonable protection of information assets, ensuring revenue streams and business integrity remain intact.



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