

Security penetration testing: a blended solution

Frazer-Nash Consultancy delivers security services to public and private sector clients and to critical national infrastructure (CNI).

OUR APPROACH

At Frazer-Nash, we test and validate an organisation's security arrangements by employing a blended solution - an approach which considers the physical, cyber, social (human) and procedural components.

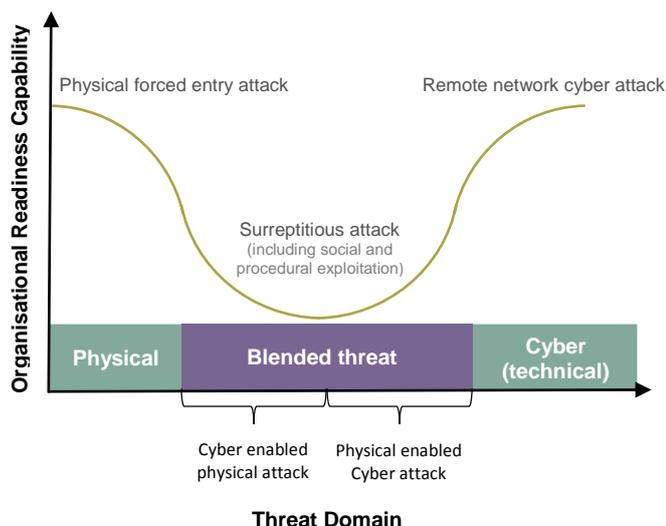
We've conducted security penetration testing for a range of sites, from small office blocks to large industrial complexes. Testing is delivered through a carefully planned covert exercise programme incorporating physical and cyber threat scenarios to assess the total protective security performance across the physical, information and personnel security disciplines.

WE UNDERSTAND THE CHALLENGE

The threat is ever changing. Brutal atrocities in crowded places perpetrated by adversary groups employing military tactics, or lone actors carrying out low-technical attacks, are on the increase.

The speed of technology advancement, increasing dependency on super-fast communications and the 'Internet of Things' in the built environment creates inherent security challenges. In this new threat environment, adversaries are increasingly using a range of tactics, both physical and digital to achieve their aims – essentially a 'blended threat'. These are often easy to perpetrate – but difficult and costly to prevent. However, whilst most organisations are able to mitigate manual forced entry and remote network attacks as shown in the diagram below, few fully appreciate the consequences of the surreptitious attacker.

There are increasing concerns over the actions of the malicious insider, or a highly motivated adversary group employing a combination of physical, cyber and social engineering techniques to bypass security controls in order to exploit assets.



We consider security vulnerabilities from a threat perspective. We're adept at mimicking adversary groups and malicious insider behaviour and advanced attack modus operandi – mirroring the way they think and operate.



WHAT WE DO

We offer a bespoke test regime to evaluate the effectiveness of your establishment's security policies, plans and procedures that combines the physical, technical and human factors aspects.

We will work closely with you to understand your organisation and operating environment. We identify adversary groups that are likely to target your key assets and critical activities and conduct:

- ▶ Open source internet profiling and hostile reconnaissance
- ▶ Development of realistic threat scenarios and attack routes
- ▶ Identify vulnerability of assets and critical activities
- ▶ A study of staff vigilance and 'challenge culture'
- ▶ Post exercise, debrief and after action report to highlight any lessons or deficiencies in security.

HOW OUR CLIENTS BENEFIT

Our recommendations will help improve your security performance and build organisational resilience:

- ▶ Clarity of security system performance and preparedness
- ▶ Informed risk mitigation strategies
- ▶ Security design, policies, plans, procedures and equipment architectures, supported by performance based analysis
- ▶ Effective security awareness training and challenge culture
- ▶ Protection of reputation and ensuring regulatory compliance.

CASE STUDY

A major UK CNI organisation commissioned our team to plan, develop and deliver a three-year security testing exercise programme for a number of locations across the country. Our client was able to determine the effectiveness of its security arrangements and introduce improvements to all aspects of its physical protection system, which improved overall resilience.

TESTIMONIAL

"The professionalism and skill of the operatives was first-class. The detailed planning and execution of all testing activities was conducted to the highest standards. The team was a pleasure to work with and I have no hesitation in recommending them to other security managers looking to have their security independently tested and evaluated".

Senior Security Adviser, CNI organisation

For more information about Frazer-Nash please visit our website:

www.fnc.co.uk/security

www.fncaustralia.com.au

Offices throughout the UK and Australia

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