

The Internet offers one of the most flexible ways for interconnecting computers, but raises security concerns. Can you balance the benefits of doing business on the Internet against the levels of risk? Is it possible to reduce the risks and connect to the Internet in a secure way?

The Internet is an enabling technology which provides the opportunity to change the way organizations do business, no matter what business they are in. The commercial pressures to join the Internet community are very strong. Many organizations embrace the benefits of using the Internet for business, whether for full e-commerce, such as Internet banking, or simply as a new marketing and advertising channel.

### The problem

The Internet is a network of networks connecting millions of computers worldwide. In recent years its rate of growth has been unprecedented, and it is expected to continue exponentially. Today the commercial sector represents over 50% of the installed Internet computer base and is outgrowing the academic and research sectors.

The key concern of most organizations is how to harness the cost effectiveness and business benefits of the Internet in a controlled and secure manner. Security threats range from inquisitive surfers to well organized, technically aware intruders who try to gain access to information or to make systems unavailable. The number and sophistication of these threats is growing each year.

### How we can help

We employ highly skilled security professionals with practical experience in Internet security reviews. We provide a range of security design, implementation and risk analysis services that can be tailored individually or delivered together as a complete integrated package.

### Internet policy

Once the main risks have been identified, we help you to establish a policy framework to ensure that countermeasures are consistent with the business objectives. User awareness of policies and procedures is also covered in this process. We can then help you to implement practical strategies to meet the policy objectives of protecting you from the key risks.

### Firewall and network security review

To ensure that a consistent level of protection is maintained, firewalls, routers and servers should be regularly reviewed. The review seeks to verify whether they meet the existing security requirements and can cope with new methods of attack. We provide an independent assessment of existing infrastructure configuration and identify practical recommendations to improve security.

### Penetration testing

Hackers continue to find new bugs in software and new ways to break in to computer systems. An independent penetration test is a concerted attempt to break or circumvent your security measures. It involves the testing and evaluation of physical and logical access controls within wired and wireless networks, together with identification and exploitation of publicly available information. Various automated tools, structured techniques and analysis methods are used in this thorough examination of security measures. Our penetration testers are ready to test your perimeter security and internal network as well, modeling the threat agents your company considers as the highest potential risk. Penetration tests are conducted by our full-time employees with credible background and sound knowledge and experience. Their work is supported by our local Security Laboratory.

### Web application penetration testing

Whilst network infrastructure aims to provide the sound basis for a secure IT environment, often applications are the bleeding edge of security. Various types of application vulnerabilities can pose significant risks to you and your clients. Vulnerable applications may allow unauthorized access, privilege escalation, data theft and breach of privacy. Not only you but your clients also can suffer loss due to such an attack. Our web application security penetration testing team helps you to identify the weak points in your applications.

We help you redesign your application or alter your application to resolve the vulnerabilities we reveal and help your developers learn how to avoid similar problems from happening again.

### Encryption

Encryption can be the solution to many of the privacy and authentication concerns of doing business over the Internet. We provide advice on the use of encryption, Public Key Infrastructures and Trusted Third Party agreements to give you comfort that your traffic is kept private, has not been changed in transit and that you know who you are talking to.

### e-Commerce business services

We also provide advice on the legal, regulatory and business risks and controls so that the use of e-commerce and the Internet is subject to the same level of control as traditional business.

### Business benefits

- Increased revenue by securely harnessing the commercial potential of the Internet
- Reduced cost by getting security right first time
- Fewer costly incidents to recover from less risk of reputational damage
- Peace of mind that your security regime and controls adequately protect you against the risks you are exposed to.

### Why KPMG?

- We are professionals in Internet issues with up-to-date knowledge of changes in this fast moving arena
- KPMG has recognized authority to provide the board, senior management, investors and third parties with the required level of assurance

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