



Security Assessment Service

Web Application Security

Service Profile

The visibility and accessibility of web interfaces make these applications a common target of attack. While firewalls offer considerable protection against traditional worms and related threats, the increasing frequency of attacks against web applications themselves, combined with an increasing reliance on web infrastructure, have prompted many organizations to take extra measures to ensure their applications are secure. **xwave** enables that level of security: Our Web Application Security Assessment Service offers clients a thorough security analysis of both existing and planned web applications, resulting in an effective evaluation of vulnerabilities and strengths measured against benchmark technologies and best practices.

The **xwave** Solution

Your web applications play a vital role in your organization's public image. The fact that they serve as key points of access, both externally and internally, makes them susceptible to intrusion. This is particularly true for eBusiness-based organizations—for whom the protection of applications and integrity of data is even more critical.

xwave's Web Application Security Assessment Service provides a full examination of your web application and the environment in which it operates. Measuring against best practices and using a flexible combination of automated and manual testing techniques, we review application design, implementation and configuration, and determine the effectiveness of its security. Our assessment encompasses application and server configuration; system design; active system and application vulnerability testing; review of source code modules; and operational documentation. Identifying technical implementation issues as well as underlying design weaknesses, we assess their collective impact on security.

Where possible, we conduct a design assessment prior to development and implementation. When development is complete, we then review the application to identify any issues. In this way we help improve the cost-efficiency of the application and enable a proactive approach to security, eliminating the need to correct issues later on. We identify weaknesses, prioritize improvement, and provide key recommendations for short-and long-term security strategies.

Our Services

Key phases in **xwave's** Web Application Security Assessment Service include:

Perimeter Testing: Perimeter testing provides an external, Internet-based view of the application and its servers. From this perspective, we identify critical exposures readily apparent to external attackers. Specific activities include: reconnaissance; site mapping; active scanning and banner grabbing; server and application vulnerability scans; brute-force password testing; and active session and state exploration.

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Internal Analysis: Internal analysis enables highly granular visibility of the application's security environment and, in turn, its specific vulnerabilities. This process complements the external perimeter testing by revealing issues that may not be immediately apparent but which nonetheless pose a threat. The analysis involves detailed application assessment; configuration reviews of hosting servers; examination of protective security devices such as firewalls; and a combination of automated and manual system testing.

Operational Assessment: This phase entails evaluation of operational factors that govern ongoing security of the application environment. The process includes interviews with key organizational stakeholders, as well as reviews of applicable policies, procedures and guidelines related to the environment's operation and maintenance.

Application Review: In this phase the application itself is thoroughly examined—a process that's most effective when undertaken in conjunction with an assessment of the web-server configuration. The review encompasses functional and design specifications; source code modules; and database schema, all analyzed in context of relevant criteria such as coding practices; authentication and access control; administrative functionality; logging; and appropriate use of cryptography.

Analysis and Research: All application-security issues are thoroughly researched; all data collected is effectively reviewed and analyzed, with specific solutions recommended.

Report Preparation: Presentation of a detailed report provides a summary of all findings and offers prioritized, practical, business-relevant recommendations.

Contact Us

xwave supports its Web Application Security Assessment with a full complement of IT-security services ranging from business-continuity planning and intrusion detection to anti-virus support and firewall management.

Find out more:

Visit our website at www.xwave.com

Call toll free:

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Canada 1-877-449-9283

Email us at: solutions@xwave.com

Or contact your local **xwave** office in the United States or Canada.