

# Application Security Assurance Services

## Current State of the Industry

- “Over 70 percent of security vulnerabilities exist at the application layer, not the network layer” (Gartner)
- “The battle between hackers and security professionals has moved from the network layer to the Web applications themselves” (Network World)
- “Losses arising from vulnerable web applications are significant and expensive – up to \$60 billion annually” (IDC/IBM Systems Sciences Institute)
- “64 percent of developers are not confident in their ability to write secure applications” (Microsoft Developer Research)

## Government & Industry Security Compliance Acts

- Sarbanes-Oxley Act (SOX)
- Health Insurance Portability and Accountability Act (HIPAA)
- Gram-Leach-Bliley Act
- Payment Card Industry Data Security Standard (PCI-DSS)
- Federal Information Security Management Act (FISMA)
- COBIT and ISO 17799

## APPLICATION SECURITY

Today, organizations increasingly leverage the Internet for essential daily business operations and to interact with their stakeholders. Business transactions, and sensitive and/or private data, have rapidly moved well beyond the four walls of the enterprise.

An organization's software applications are no longer just tools; they are highly-valued assets to the organization, and they represent an organization's brand and ability to generate competitive advantage. Protecting these assets demands a focused and disciplined approach to Risk Management and Security Assurance.

Hackers are turning their attention from network and servers to applications. However, application security is not being adequately addressed. Security, after functionality and performance, is considered to be the third pillar of application quality.

If the growing security threats to enterprise applications are not enough to change the status quo of application security, then the increasingly stricter regulatory and compliance requirements from governments and industry groups around the world should serve as a wake-up call to the software industry to harden security controls at application level.

Together, application development teams, QA teams and Operation teams, need to address enterprise application security as a quality issue and manage security throughout all phases of SDLC. We call it Secure SDLC:

## CGI'S SECURE SDLC:



