

Application Security REVIEW

As connectivity has increased, so has the amount of sensitive corporate information that can be accessed via the Internet.

While infrastructure security components such as firewalls and intrusion detection systems are essential to route and protect traffic, they provide no protection for the processing of critical business information within applications.

Constructing an “attack resistant” application environment has become a high priority for companies. Most security dollars are invested in a perimeter defense with very little invested to protect the company’s resources that are accessed through custom applications and third-party software. Some common problems associated with applications security include:

- Generic meta-characters
- Cross-site scripting
- SQL injection
- Path traversal and disclosure
- Canonicalization issues
- URL encoding or manipulation
- Cookie tampering
- HTTP header manipulation
- HTML form field manipulation
- Dead code
- Debug commands
- Denial of service attacks
- Environment and language issues.

Today, application development is largely driven by time, features, and functional quality. SEC’s [Application Security Review](#) can help identify weaknesses in your applications and/or applications development processes, make recommendations on how to address vulnerabilities, and assist you in building a foundation to construct “attack resistant” applications.

This review is a two to three-day look at applications, the value at risk, environment and language security, and your company’s development and deployment processes.

During the review, SEC examines the following application issues:

- Value at risk
- Internal and external threats
- User authentication
- Data input/output
- State management
- Information access
- Logging and log management
- Database access and design
- Application architecture
- Management of access controls
- Production environment
- Controls, processes, and procedures
- Application development lifecycle and processes
- Testing, staging, and deployment of applications
- Change control.

Following this review, you will be provided with a list of findings and recommendations for improving your company’s application security.