

GTONE

Security Vulnerability Inspection Solution

SecurityPrism

Reducing Security Risks by Ensuring Secure Application Development

- ☑ Catching application's security weaknesses early
- ☑ Improving application security and quality with productive way
- ☑ Significantly reducing risk and cost from security incidents

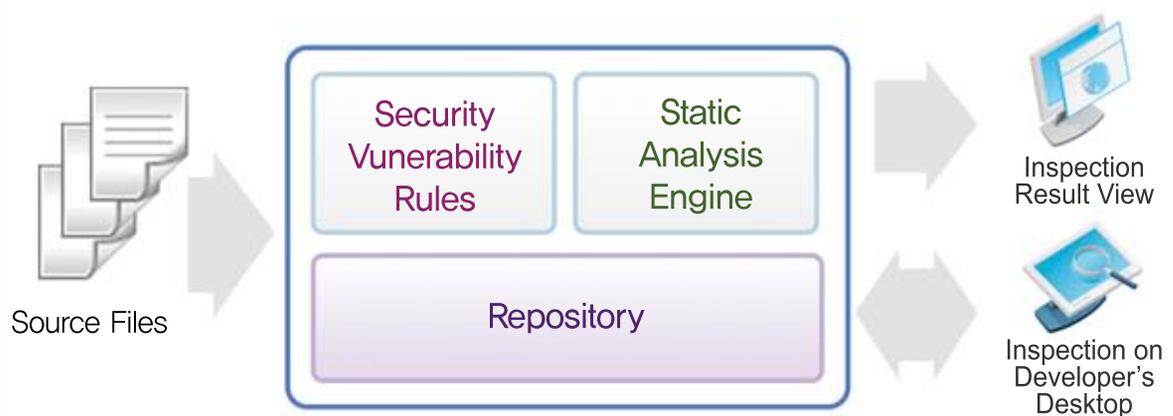
The advanced static analysis solution
to detect and locate
security vulnerabilities
at the early of development lifecycle

GTONE
Governance Technology

Overview

GTONE's SecurityPrism® enables organizations to **improve application security** and **reduce business risks** by catching security weaknesses in source code with international standards.

It analyzes source files using advanced static analysis technology to automatically **detect security vulnerabilities** without running programs. It supports **two-track security inspection**; client side and server side inspection. At the development stage, developers can check their own source codes on the development PC. At the test or cut-over stage, QA or managers can check all source codes before moving forward to the next stage. The result from server side inspection is stored to the central repository, allowing application team can share the security status.



The Challenges and Solution

Increased dependency on networked software systems has been matched by an **increase in the number of attacks** aimed at these systems. These attacks—directed at governments, corporations, educational institutions, and individuals—have resulted in **the loss and compromise of sensitive data, system damage, lost productivity, and financial loss**.

Therefore, organizations need an efficient method to **eliminate security vulnerabilities early in the software development life cycle**. For this reason, **static analysis technology** for analyzing code-level security issues is gaining momentum in the industry.

To address this growing threat, the introduction of software vulnerabilities **during software development and ongoing maintenance** must be significantly curtailed.

SecurityPrism® detects vulnerabilities with secure coding rules, which are from international standards such as CWE, OWASP, etc.

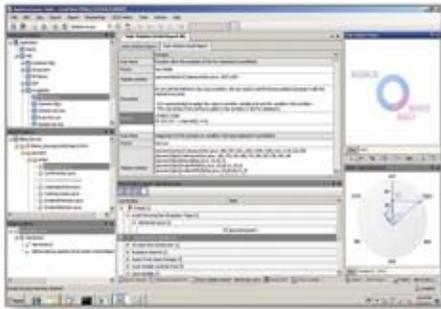
It reduces **security risks** by identifying security defects early in the software development life cycle.



Key Features

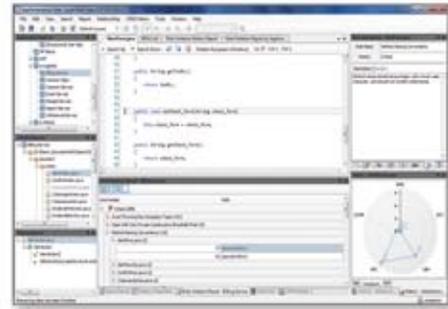
Detecting vulnerable source codes

- With semantic analysis algorithm, it detects source codes which would result in security incidents.
- SQL injection, command injection, cross-site scripting, HTTP response splitting, buffer overflow and more.



Easy management of rules

- It allows you to create new rules or modify existing rules using rule description language.
- Its centralized rule management supports automatic client-side rule update for developers.



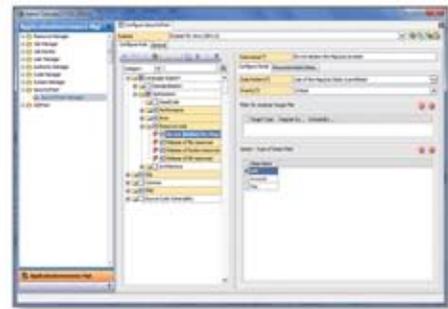
Supporting international standards

- It provides about 340 security rules based on industry recommended standards such as Common Weakness Enumeration, Open Web Application Security Project, etc.



Reporting and secure coding guideline

- It generates detailed report about detected security defects with line number, violated rule's description and sample code.



Applying advanced analysis technologies

- It doesn't request extra complex compiler environment setting.
- It applies advanced static analysis technologies such as pattern analysis, flow analysis, type analysis, property analysis and value analysis.

Inspecting both quality and vulnerability

- By license option, you can apply GTOne CodePrism's quality rules at once.
- It can support inspection of source code's quality and vulnerability in a single environment.

Benefits

Keep business sustainability

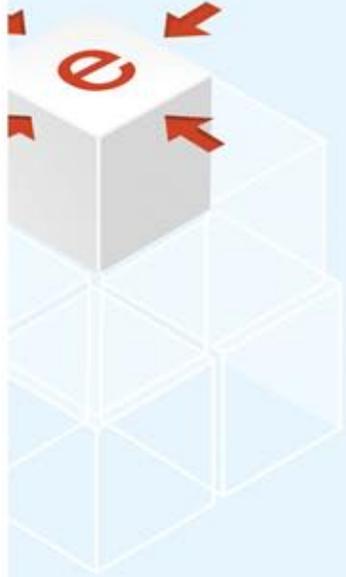
The risk from security incident can hurt an enterprise's business sustainability. By ensuring secure application development, organizations can decrease business risk.

Reduce cost

IT organizations will save huge amount of time and costs by detecting and fixing security defects in the early stage of development life cycle.

Enhance productivity

According to Software Engineering Institute, skilled developer just can check 1,000 code lines per day. SecurityPrism® can save your development time and effort.



Supported Technologies

- ANSI C, JAVA, JSP
- Eclipse plug-in



Seamless Integration with GTONE Product Line

GTONE provides other application governance solutions; ChangeMiner, CodePrism and AQPrism. The four solutions can be tightly integrated as a complete package, GTONE AppGovernance Suite. ChangeMiner is an enterprise application mining solution. CodePrism is a quality inspection solution. AQPrism is an application portfolio management solution.



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