



# Automated Static Testing

## A new solution from Magic Lamp and Jenesys Technologies

### The Business Problem

- Are you concerned about down-time, performance issues or security vulnerabilities in your mission critical applications?
- Are you expected to deliver high quality software with insufficient experienced engineering resources?
- Do you outsource Java development or maintenance and are you concerned about the quality of delivered code?
- Do you battle with high costs and unreliable schedules of development, testing and maintenance?
- Are your customers dissatisfied because of application errors or lack of responsiveness of critical applications?

Static Testing identifies critical reliability/security/performance defects missed by traditional (dynamic) testing and enforces compliance with rules and best practices. Jenesys provides technology solutions and services for automating Static Testing or Software Code Audits based on cutting-edge technology from Magic Lamp. Using its patent-pending Software Simulation technology and deep Java expertise, Magic Lamp's Static Testing solutions has:

- helped over 15 enterprises including Silicon Valley technology majors, top banks, E-Commerce portals, software product vendors and top IT services vendors to reduce downtime, avoid security vulnerabilities, prevent data corruption and improve performance

- helped software engineering organizations enhance efficiency by identifying defects pro-actively and faster, and automating time-consuming code review

- assessed the quality of code-bases in internal application portfolios as well as out-sourced applications developed by IT services vendors

- automatically detected critical errors in applications that use core Java and Java EE, based on an expert knowledgebase of thousands of rules, including security, performance, concurrency, resource leakage, Core Java/Java EE/Open Source API usage, and SQL query analysis rules

- enforced application-specific design and interface rules between services/modules/frameworks

Magic Lamp's Software Simulation technology is based on the latest compilers research in inter-procedural data-flow analysis. Using algorithms, heuristics and best practices known to experienced programmers, it exercises binary Java code across multiple modules and layers for all paths and inputs without running the code, and detects errors missed by testing.

Static Testing services is provided as an on-site or off-site audit service that allows clients to reliably and quickly improve quality and security without disturbing existing processes or diverting resources from other commitments, including for business critical applications which currently do not have an active development team.

## Jenesys Technologies

Founded in 2002, Jenesys is a leading provider of information technology and consulting services. Jenesys solves real business challenges through design, development and deployment of cost-effective, change-oriented and innovative solutions.

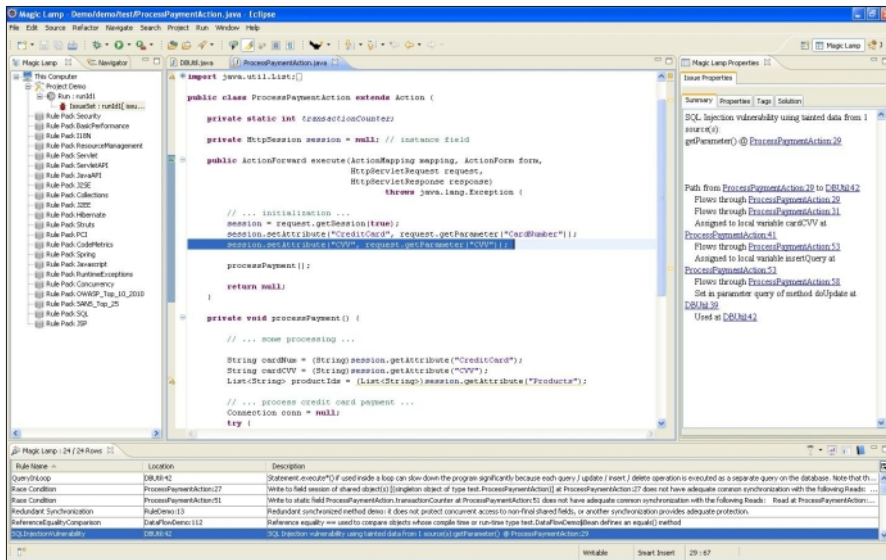
Our size, flexibility, and global presence enable us to offer services across the board – global solutions implemented world wide, as well as specialized solutions developed and implemented to meet local and regional requirements.

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Magic Lamp and Jenesys have partnered together to bring cutting-edge static testing solutions for clients worldwide.

Get in touch with us for a demo/presentation on the product. We can also undertake a static testing project on one of your important applications to enable you to quickly identify important security, performance and reliability issues that may impact your business.

### Static Testing Solution offerings

#### Gold Level

Static Testing setup and execution on client code

Create client-specific rules as needed

Filtering of issues by cross-checking with source code

Prioritization of issues using client's priority policies

Recommend source code fixes for each issue

Manual source code review for specific threats

Technical review & best practices session with development team  
- Reporting using client-specific report template  
- 48 hour turnaround time for on-demand jobs

#### Silver Level

Static Testing setup and execution on client's binary code

Prioritization of issues using client's priority policies

Reporting using standard template

5 days turnaround time

*Magic Lamp's technologies enabled us to discover security, reliability and performance issues much faster with considerably less effort in several Java-based products.*

**SVP, Large IT Services Vendor**

*[The audit] was extremely useful and we uncovered a variety of issues that we were able to get fixed in [our product]. A lot of the issues were around race-conditions, resource leaks and security. Things that have huge support costs and are very difficult to discover during testing. I would highly recommend [Magic Lamp's] services.*

**Sr. Director, Fortune 500 Technology Company**