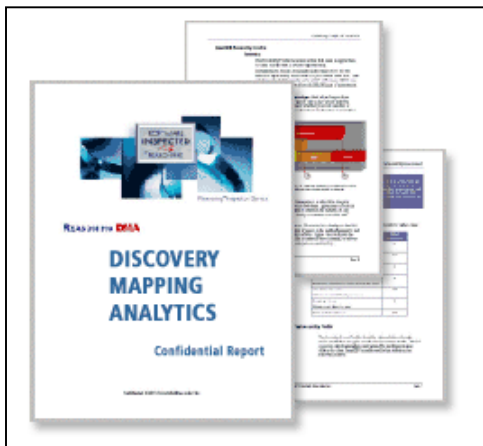




Discovery Mapping Analytics™

Professional software developers know that every technical decision involves a tradeoff. And every day, software managers and executives must make tradeoffs, too – time, effort, and results. But what is the risk?

A “Whole-Body Scan” for Your Source Code • Reasoning’s Discovery Mapping Analytics service (DMA) is like a “whole body scan” for your source code. Using static analysis technology and Reasoning’s expertise in identifying reliability and security defects, we benchmark the quality and risk level of your application and its components. The result for you is action information to measure, then manage your development process.



Metrics: Know Where Your Application Stands Today

• Reasoning’s Discovery Mapping Analytics service maps source code implementation errors that cause system crashes or security vulnerabilities. With this mapping, you can understand and visualize the risk profile for your application or outsourced project.

The DMA findings show your code characteristics across ten different categories. The type and impact of each category is illustrated. You receive an unbiased, third-party assessment of code reliability and vulnerability.

Benchmarks: Turn “risk avoidance” into “Risk Management” • Reasoning’s Discovery Mapping Analytics service is a unique addition to your

management dashboard, providing quality benchmarks. Drawing on statistics from our database of thousands of Reasoning commercial inspections, the DMA findings show your code characteristics compared to hundreds of the world’s most capable development organizations. You gain predictability in assessing the exposures in your applications. You can actively manage identified risk instead of implementing blanket strategies against unknown reliability and vulnerability characteristics of your applications.

Priorities: Target resources on critical business objectives • Reasoning’s Discovery Mapping Analytics service delivers actionable information to drive informed business decisions. In addition to overall profiles, Reasoning identifies



the reliability and vulnerability characteristics of the key code groups in your application. With this data, you can prioritize and target your development resources at the heart of code integrity problems, and enhance decision-making on software acceptance, software release, time-to-market issues, and deployment of tools, training and staff.

Just starting a new quality initiative? • An effective quality improvement program requires a clear starting point and the ability to assess and quantify the program's impact. Whether your code base is mature or rapidly evolving, Reasoning's DMA reports provide a quantitative, cost effective, third-party assessment for each application.

How Does It Work? • Our DMA service is an analysis of your source code using static analysis techniques and Reasoning's expertise in identifying Implementation Defects. We process your code through various static analysis engines and analyze the results to measure and benchmark the quality level of each component of your application. This gives you actionable information to enhance, prioritize and manage your development process.

What are the Key Benefits? • From Reasoning's Discovery Mapping Analytics service you gain objective, third-party assessments allowing you to:

- Allocate your human resources more effectively,
- Direct your use of tools more effectively,

- Prioritize your applications and application modules for remediation, upgrade or enhancement,
- Estimate more accurately the effort required to complete each project,
- Compare the quality of modules developed by different development groups,
- Compare the quality of modules developed using different tools or development methodologies,
- Measure the change in quality of an application over time,
- Compare the quality of your applications to software written by other organizations, and
- Provide an unbiased, third-party assessment of the results of your quality initiatives.

About Us • Reasoning is a pioneer in the field of software static analysis technology and the leading provider of automated software inspection services. Since 1996, Reasoning has focused on software quality needs for hundreds of customers and examined over a billion lines of source code. Reasoning serves customers around the world from headquarters in Menlo Park, California. The company is privately held.



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