



CAST Application Intelligence Platform

Application Assessment Automation

Executive Summary

The CAST Application Intelligence (AI) Platform generates the visibility managers need to measure, control and improve application technical quality and development team performance. Up to date, objective metrics enable executives to better manage and support development teams, whether outsourced, internal or both.

Proactive quality management at the code and architecture level delivers immediate ROI by exposing defects - early in the development lifecycle - that testing cannot find. Most importantly, IT managers deliver value to the company by accelerating time to market, managing IT system risks, improving responsiveness to changing business needs, and controlling maintenance costs over time.

Improving the performance of software delivery

By creating a software development factory using CAST, the U.S. Food and Drug Administration is able to deliver immediate development productivity gains, lasting improvements to system security, and reduced maintenance costs with better quality and standards enforcement.

"With CAST we can set clear standards on quality, complexity and architecture. In addition, CAST also provides a platform to measure development efficiency and to estimate the level and skill of work required for a project, another key element to our 'factory' concept."



PRODUCT

Why is visibility into evolving systems so important today?

The headlines are filled with serious business risk tracing back to the source code - voting systems that crash on Election Day, electronic ticketing systems that quote the wrong price and cost the airline millions in lost revenue, logic bombs that bring down trading systems.

Software is the lifeblood of business today, and as the world grows more globally-networked and technologically dependent, not only must the systems that underpin business keep pace, but so must the level of professionalism in managing their evolution.

The CAST solution - effortless transparency

CAST enables continual and objective assessment of the technical quality of applications being delivered to the business. The technical, architectural quality of applications is what must matter to application development (AD) managers because it can:

- Degrade performance, stability and security
- Drive-up maintenance cost
- Delay product releases
- And at worst, bring down the live system

CAST automates the code review process and provides visibility and understanding into complex systems, and the work conducted by the teams developing and maintaining these systems. The IT department can do a better job communicating with their business partners, improving the alignment and satisfaction between IT and business constituents. CAST makes it possible to build high quality software, faster, and at the lowest possible cost by continually measuring team performance, quality of outcomes, progress, and providing the help teams need in critical situations.

What makes CAST unique

No other product on the market provides the depth, breadth, and scope of analysis available with the CAST Platform:

- **Depth of analysis** - structural analysis allows CAST to provide timely and accurate metrics that management can rely on when making decisions.
- **Breadth and scope of analysis** - no solution covers as many languages and multi-technology architectures across all layers of an application including UI, logic and data.
- **Drill-down capability** - not just passive monitoring, but the ability for managers to actively drill down and share technical information that ensures speedy delivery and remediation.

Managing outsourcer performance

Deutsche Telekom has established a Quality Service Center based on the CAST Platform to improve the quality of its outsourcers' delivery - before the applications are delivered - and reduce its outsourcing and quality management costs.

"The quality assurance and integration management department has been reduced by 50% from 170 people due to the new quality program, while the reliability and stability of application deliveries has increased very significantly."



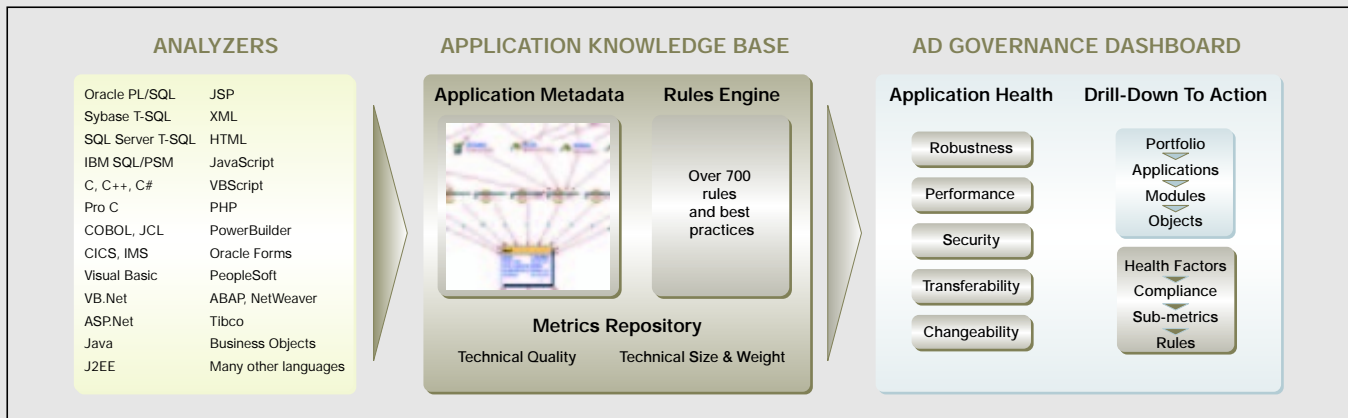
A platform to measure the technical quality of software applications and improve the performance of development teams

Managers can take control and pro-actively improve project outcomes.

- **Scalability** - portal-based access to the information needed to understand application health, adherence to industry and organizational standards, quality, sizing and structure.

How the CAST Application Intelligence Platform works

The CAST solution can read, analyze and semantically understand most source code languages, including scripting and interface languages, 3GLs, 4GLs, Web and mainframe technologies, across all layers of an application (UI, logic and data). By analyzing all tiers of a complex application, CAST measures quality and adherence to architectural and coding standards, while providing real-time system blueprints.



CAST Application Intelligence Platform Overview



The CAST Dashboard

Managers get immediate access to this information via a Web interface - the CAST Dashboard - on which they can pro-actively monitor, measure and improve application health and development team performance. Managers and developers can see how applications evolve and have the power to identify software issues before they become production problems. Drilling down to the source code at risk, they get contextual technical documentation that helps speed remediation.

Tangible value to the customer

With the intelligence provided by CAST, customers are able to benefit from:

- **Early detection of defects** - A 10-50% reduction in source code defects early in the development cycle. Early remediation means lower cost, and more satisfied users.
- **Faster time to market** - Approximately 10-20% efficiency gain by reusing components and frameworks, and reducing developer rework. Good development practice means faster delivery to the business.
- **Maintenance cost abatement** - Continuous technical quality improvement will drive maintenance cost down by 10-30% over time, starting with the next release.
- **Objective sourcing estimates** - Up to 50% savings on change requests by being able to estimate automatically the effort that should have been required for produced work.

More value for development teams with the CAST Discovery Portal

The CAST metrics and information are based on a structural analysis of an application's source code and inherent architecture, which are captured as metadata in the CAST Knowledge Base. Architects, developers, DBAs and other technical staff can access the CAST Knowledge Base via the CAST Discovery Portal to automatically create real-time system blueprints to gain a fast and in-depth understanding of any application.



The CAST Discovery Portal

About CAST

CAST's unique technology is the result of over \$65 million in R&D investment. Top engineering talent, dedicated to building the best solution for assessing complex applications and their technical quality, has made CAST the leader in Automated Application Intelligence. CAST's mission is to transform application development from a complex and obscure process, into one that's transparent, driven by data, performance and operational excellence.

Founded in 1990, CAST has helped more than 650 organizations worldwide to speed delivery to the business, mitigate risks in production, improve customer experience, and reduce the total cost of application ownership. CAST is listed on NYSE-Euronext (Euronext: CAS) and serves Global 2000 organizations worldwide with a global network of locations in the US and Europe.

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