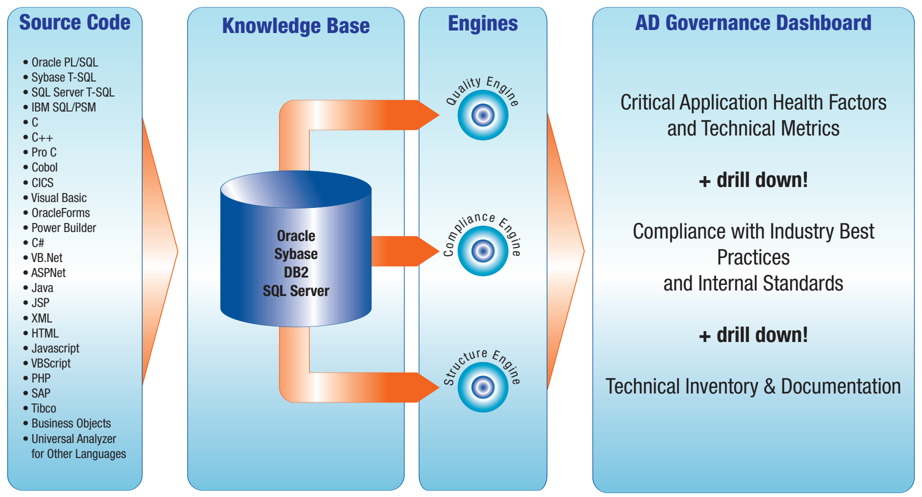
How does it Work



The CAST Application Intelligence Platform analyzes all of the code that makes up an application or system including the database, business and user interface layers. From there, the information is stored in a knowledge base "repository" from which reports are extracted and decisions can be made. The platform is made up of 3 engines:

- Quality
- Compliance
- Structure

Each engine brings its specific expertise, the platform combining them to assess the entire application across all areas needed. The analyzers look at the application from a static point of view, but are able to simulate how the application will run, connecting all of the pieces of the puzzle, looking across different languages including the database. Because of this, CAST is able to perform analysis of the entire application or system as to its health.

The End Game - Delivering Better Software

Part of getting the development teams to follow the processes which have been put into place is having them know that the work they are doing is being inspected. It has been proven time and time again, if you measure what people are doing, they will do it better and if you can measure them objectively through automated measurement, there is no possible argument. Everyone wants to do the best job possible and make the development effort a success and CAST helps to ensure things are done correctly and correct them when they aren't.

The CAST Story

CAST software can read, analyze and semantically understand all kinds of source code. As a result CAST can provide an automated technical assessment of software applications, including detailed technical characteristics, compliance with quality and architectural standards, and eBlueprints of an application's inner structure.

Gain measurable Returns On Investment:

With the intelligence provided by CAST our customers are able to transform application development into a performance-driven culture. The tangible benefits are hard to ignore:

- Up to 20% development productivity gains
- Up to 30% reduction in maintenance and change request costs
- Up to 3 times savings in the cost and time for massive knowledge transfer
- Reduced risk of system outages, security violations, and future maintenance problems

More information

With more than 14 years of experience in advanced source code analysis & delivery of application intelligence, CAST offers a unique technology and comprehensive solutions to solve today's customer challenges in application development. CAST is listed on Compartment C-Eurolist by Euronext Paris. To date, CAST has invested over $50M in R&D. It serves over 600 world-class organizations with a network of 11 fully-staffed offices in the US and Europe. CAST is a recognized leader by all major IT analysts. Please visit www.castsoftware.com for more information.

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CAST Application Intelligence Platform Overview

for the
ARCHITECT

"Too many times, software developers act as if they are architects within their own areas of expertise. Implementing architectures as they see fit, following guidelines, but straying from them whenever they feel it is needed and working within their own worlds. This has to stop!"

Application design is done for a reason not unlike the way we draw very structured architectural plans for a building: to ensure it structural integrity. However, that is often where the similarities end. A building is then inspected every step of the way to ensure it is built to specification. Software on the other hand is much more of a trust factor. Architects design a sound system, one which can be easily changed over time, one that meets industry and organization standards, one that avoids individual lock-in and is easy for a new development resource to begin working on, but that is where control often ends.

As organizations have evolved over the past 3 decades, we have seen applications that we thought were not going to last more than a few years continue to be the backbones of the organization 30 years later. As we are building systems today, we need to ensure that they can endure the same tests of time and today, those systems are more important than they ever were, not only supporting the business, but running them.

CAST
The Application Intelligence Company

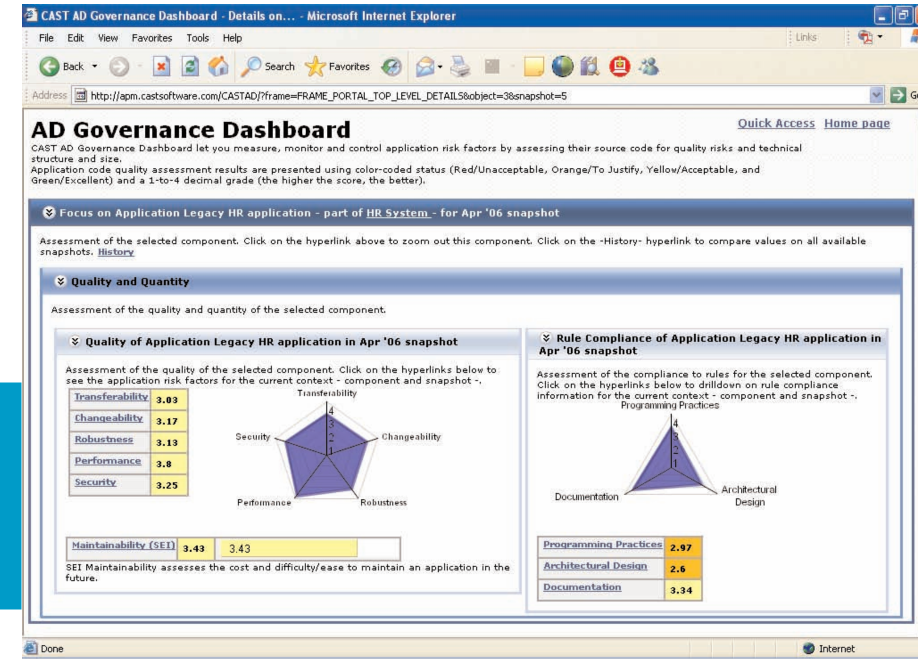
Ensure Architectural Designs, Rules and Standards are followed

Today, many organizations depend on mandates and processes to ensure that the building blocks put in place by architects are followed - not necessarily implying that they are. So code reviews also take place, at least occasionally but these however are expensive, time-consuming and often can only cover a small percentage of the code. So how well are these really being followed?

CAST Application Intelligence Platform

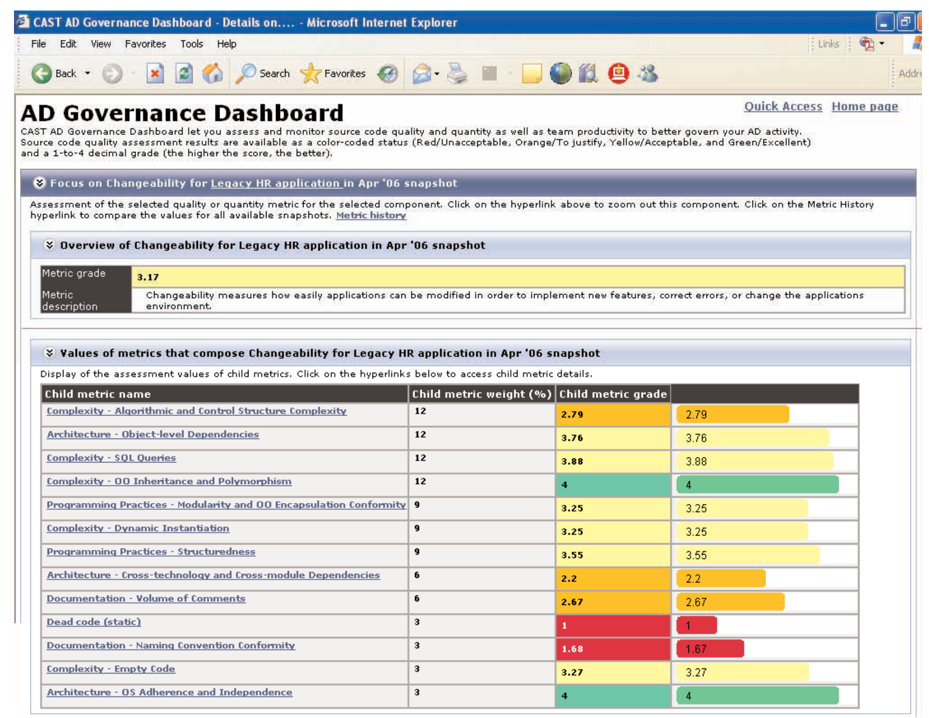
The CAST Application Intelligence Platform – "the Software that knows Software" - automatically analyzes entire business-critical applications across all tiers and languages to provide real data. Architects are provided with the actionable metrics and information needed to assess the implemented code, to understand its health, know where risk lies and understand how well the architectural designs, rules and standards have been followed.

1



Objective monitoring and measurement of the health of the application or system to ensure adherence to architectural, coding and documentation best practices and standards along with high level information on the transferability, changeability, robustness, performance, security and maintainability

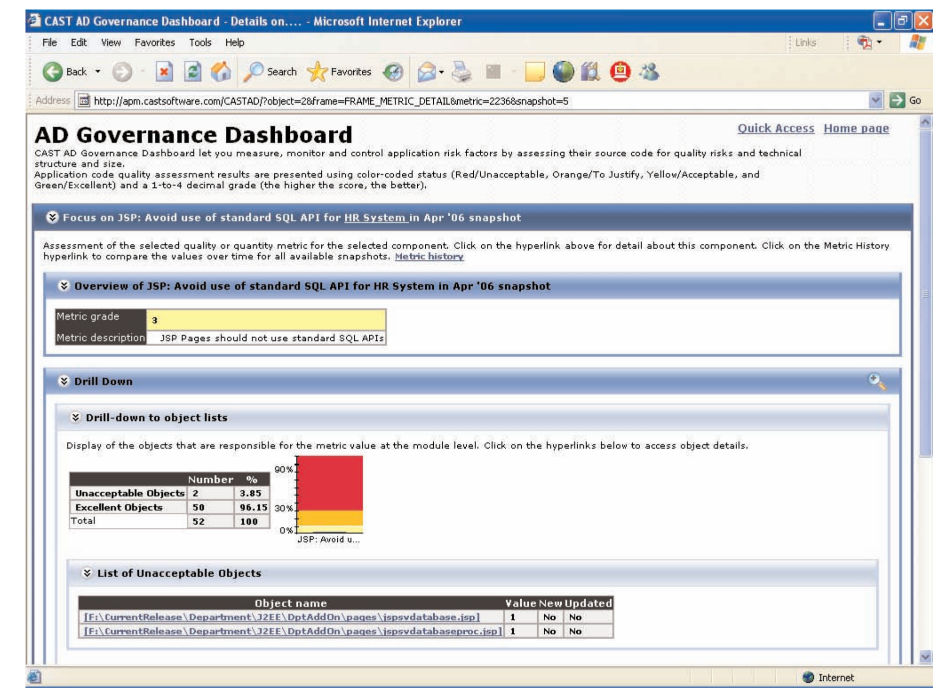
2



Each of these higher level measures is made up of several technical metrics which include both code quality and application sizing. Some examples of technical metrics are Cyclomatic complexity, object-level dependencies, polymorphism, cross-technology dependencies and others. These are also then comprised of issues specific to a language or database technology.

Taking Action

3



Monitoring and measuring is just the start, you then need to take action. CAST Application Intelligence Platform doesn't just provide information at the highest levels, it enables you to dive as deep as needed to understand exactly which code files are exposed and where within those files issues may exist. See the rules that haven't been followed specific to a language or technology and include custom rules, designs and specifications put in place by your organization.

1: Specific assessment of an application's health and how well it complies with standards
2: Example of the technical metrics used to describe changeability
3: Drill down to the specific files considered unacceptable