

SOLUTION OVERVIEW



Developing confidence
in business





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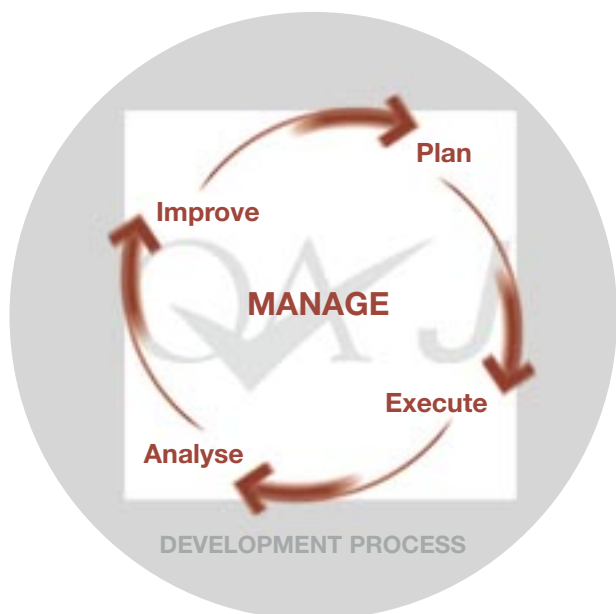
Today's business critical applications require faster development time, whilst reducing costs and increasing the quality. Technologies also place a premium on code scalability and re-use. The advent of object-oriented design ensures that we are now able to conceptualise these technologies; but what guarantees do we have that these concepts are correctly translated into real systems?

The QA J solution provides total productivity management and quality analysis for both individual and enterprise level developments.

By enabling management of the development process and by automating enforcement of coding standards, future technologies will be more robust, better documented and more scalable, thus reducing risk and ensuring a greater return on investment.



QA J stores analysis data in a central repository, enabling access for the whole enterprise



QA J enables complete quality management of the development process

The QA J solution

is comprised of two components, Analyser and Enterprise:

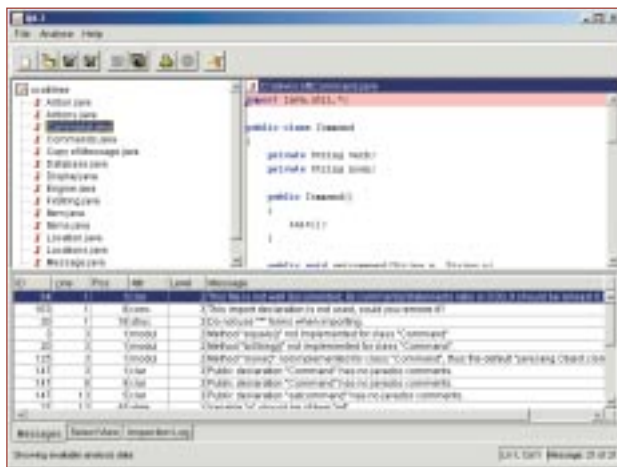
QA J **Analyser** includes configurable static analysis checks and metrics that detect inconsistencies and errors in language implementation. It also highlights source code issues involving standards compliance, programming practices and performance, thus enabling fast and efficient development of robust software.

QA J **Analyser** gives software developers an insight into how to improve software code quality. It enables project managers to control the software code quality improvement process, resulting in increased productivity and dramatic reduction of overall testing and maintenance efforts.

QA J **Enterprise** brings together business management, project teams and individuals with a 100% web-based productivity and software quality management system. It provides advanced enterprise-wide reporting on quality status conforming to ISO 9126 attributes, quality evolution, trend analysis, coding standards conformance and software metrics.

QAJ Business Level Features & Benefits

- Reduces risk of failure.
- Reduces cost of software development.
- Shortens time to market.
- Management can set software quality goals.
- Trend reporting enables measurement of quality evolution.
- Management can guarantee that the software application meets a defined level of quality.
- Extensive web-based reporting.
- Conformance reporting per ISO 9126 high-level quality attribute terms - reliability, testability, maintainability, portability, efficiency, and reusability.

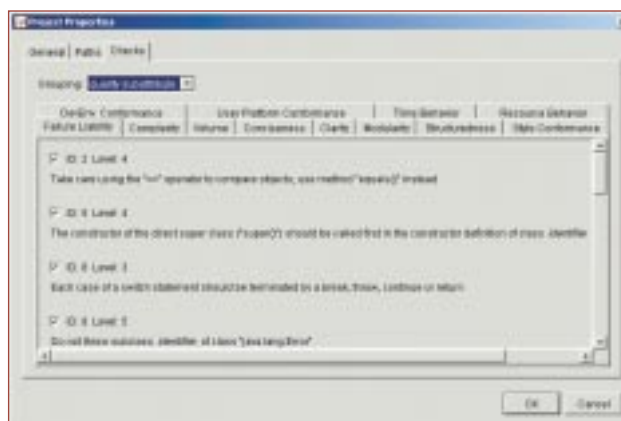


QAJ Project Level Features & Benefits

- Enables project managers to control the quality of the source code.
- Increases productivity of the development group and reduces maintenance costs.
- Eliminates individual bad programming habits and enhances future maintainability and extensibility.
- Manages any number of projects without constraints on team or application size and irrespective of location.
- Reduces software problems and maintenance costs.
- Integrates into an existing software build and release process.
- Ensures that source code is uniform, readable and understandable by all software engineers.
- Drill-down from high level quality status to pinpoint individual source code messages.
- Achieves higher team productivity by exploiting organisational and industry knowledge and expertise.




QAJ Individual Level Features & Benefits

- Automatic enforcement of coding standards.
- Configurable warning messages and reports.
- Static analysis checks and metrics that detect inconsistencies and errors in language implementation as well as source code issues involving standards compliance, programming practices and performance.
- Proactive static analysis identifies potential errors and other problematical issues early in the development cycle preventing simple errors from becoming more serious problems.
- Combines industry-standard code metrics with easy to understand reports.
- Enables developers to improve their Java™ knowledge and programming capabilities.
- Increases individual productivity.
- Provides developers with warning messages and in depth knowledge and examples on the topic, enabling them to master skills and knowledge needed to maximise job performance.



The QAJ solution can be integrated with Borland JBuilder™ and IBM VisualAge™. All the QAJ Analyser features are at developers fingertips from these IDE's including; analysing code, viewing error reports, viewing online descriptive solutions, making changes to code and configuring messaging rules.

Platform Support

-  is supported for all three leading Java™ platforms: Windows, Solaris and Linux
-  runs both on JRE 1.2 and 1.3
-  can be integrated with Borland JBuilder™ (3.5 and higher), and IBM VisualAge™
(For all other platforms please contact Programming Research)

Documentation

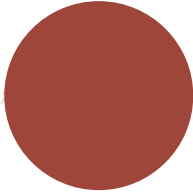
- Printed and electronic
 - User manual
 - Installation & release notes

Licensing

- Licensed with annual support & upgrade service

Support & Services

- Telephone hotline
- E-mail support
- Upgrade service
- Training
- Consultancy



```
final int x=12; int y = public final int z = 3; public void f1(){if ((x!=y)&&(y>z))System.out.println
```

Products from Programming Research



Productivity management and proactive quality analysis solution for Java™ technology




Deep-flow static analysis solution for C++ technology



Deep-flow static analysis solution for C technology



Configuration Module for enforcing the MISRA guidelines using 



Deep-flow static analysis solution for Fortran technology

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