

QStudio[®] Enterprise

The Software Assessment Tool

QStudio Enterprise 2.2

QStudio Enterprise

- automates software assessment during insourcing or outsourcing
- provides software quality trend analysis and benchmarking
- implements quality control and coding standards compliance during development

QStudio Enterprise is a:

- powerful automated software assessment engine based on the ISO 9126 software quality model automatically generating management oriented software assessment reports
- code quality benchmarking and code quality trend analysis tool allowing comparison with other code or previous versions of the same code base
- development support tool providing drill down capabilities to all identified issues within the software.
- coding standards compliance system for an enterprise strength multi-user, multi-coding standard, multi-project environment

QStudio Enterprise significantly reduces the risk (and ultimately expense) associated with software development, software delivery or software acceptance during insourcing or outsourcing. It is of particular importance for applications implementing critical primary processes or in areas such as aerospace, defense, medical or financial transactions. Target users of QStudio Enterprise include outsourcing managers, software delivery managers and quality managers for the assessment capabilities and developers for the coding standard compliance and code analysis capabilities.

QStudio Enterprise is based on several ground breaking concepts:

- QStudio Enterprise clearly separates automated analysis from automated assessment: this allows a best of breed approach to code analysis tool selection and hence reduces customer lock in.
- QStudio Enterprise implements the established ISO 9126 software quality standard as the basis for the assessment model. This means that software management can implement a coherent assessment model to be used against various analysis tools (and hence ultimately against all programming languages and application development).. Each tool no longer needs to provide its own (generally incomplete or nonexistent) assessment model

By providing a single coherent data model based on an established standard. QStudio Enterprise provides a platform for higher level reporting and management utilities and a more consistent approach to application quality reporting. Today software management needs to create and interact with the (implicit) data model associated with each tool as well as determining the mapping to the higher level (more relevant) business risk concepts. A difficult and time consuming task at best.

In addition, QStudio Enterprise supports drill down capabilities to all identified issues within the software and supports an enterprise-strength coding standards compliance system for a multi-user, multi-coding standard, multi-project environment

QStudio Enterprise 2.2 seamlessly integrates with the industry leading open source automated software inspection tool (code analyzer) for Java: QJ- Pro.

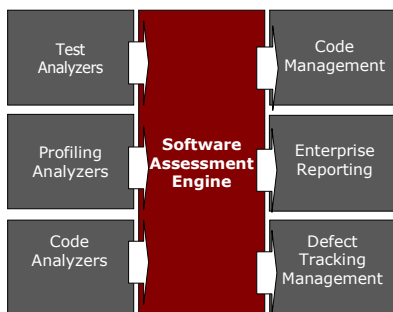
QStudio Enterprise is unique in that it will integrate with 3rd party code analyzers for a variety of programming languages. QA Systems is working with industry leading code analyzer vendors and open source communities to provide the necessary integration. Initial analyzers targeted for QStudio Enterprise 3.0 include the Java open source analyzers CheckStyle, PMD and QJ Pro, Microsoft's FxCop for the .NET environment and Power Software's Krakatau analyzer for C/C++.

Use QStudio Enterprise if you need to:

Software Quality Trend Analysis: You maintain or develop source code. You need to understand the software quality risk of the source code and how it compares to previous versions of the code bases (trend analysis) or comparable code bases (benchmarking analysis).

Software Assessment: You carry out software risk assessments for internal or external parties. You need detailed insight and reporting into the potential software problems within the assessed software.

Software Outsourcing or Insourcing: You outsource software development and you need to accept the software. Or you intend to insource software development for a customer You need to identify and understand the risks you are exposed to before accepting the code.



Software Quality Demonstration: You are delivering developed code to your internal or external customer. You need to demonstrate the delivered quality of the source code in terms that your customer's management can understand. QStudio Enterprise provides detailed visual overviews of the delivered code quality thereby giving you the ability to demonstrate the quality of your delivered source code.

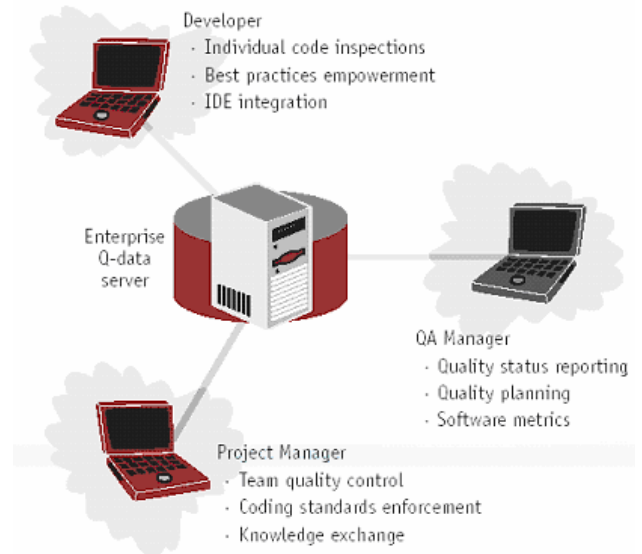
Software Quality Measurement: You have (or need to have) a measurable software improvement program. QStudio Enterprise provides software quality measurement, software quality benchmarking and software quality trend analysis giving you the ability to institute a measurable software quality improvement program which can tie in with your overall quality program. You need to comply with internal or external software coding or quality standards.

Coding Standard Enforcement: You need to comply with internal or external software coding or quality standards. QStudio Enterprise supports multiple different coding compliance standards within multiple projects over the enterprise and can integrate with code management systems ensuring that only code satisfying each project specific coding standard can be checked in into the projects code base.

QStudio Enterprise automates team/departmental based software coding compliance. Multiple coding standards and quality standards configurations can be managed and made available to the software development team. QStudio Enterprise identifies potential defects in the software and provides development powerful drill-down capabilities to the identified issues.

QStudio Enterprise 2.2 supports the following features:

- Automated high level management report generation of software risk assessment (see example below)
- Multiple Coding standard compliance to departmental and project related coding standards
- Software quality trend analysis and benchmarking analysis
- Automated Annotated Source Code Generation for easy code review
- Web based graphical administration and reporting capabilities
- Command line interfaces for batch processing of large projects
- Interface with code management systems to ensure that only code satisfying the defined quality standard is committed to the code base
- Integrates with the industry leading open source Java code analyzer: QJ Pro



Interfaces to multiple 3rd party code analyzers for C/C++/Java/Cobol/Fortran and .NET planned for version 3.0.

Availability

QStudio® Enterprise 2.2 is available for Windows (98/2000/NT/XP/ME), Linux (RedHat Linux 6.1 and higher, SuSE Linux 7.0 and higher) and Solaris (Solaris 6.1 and higher). Download an evaluation copy from our website now.



QA Systems - The Software Assessment Company™ - develops tools for software assessment and software quality compliance.

www.qa-systems.com

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QStudio Enterprise 2.2 Features

Automated Sophisticated Code Assessment Report Generation	✓
ISO 9126 based Software Risk Assessment Model	✓
Defect Impact Level Assessment	✓
Software Quality Trend Analysis	✓
Software Quality Benchmarking Analysis	✓
Drill down overviews per (sub)project of type Table, Pie Chart and Bar Chart	✓
Automated Annotated Source Code Generation	✓
Application Usage reporting	✓
Per Project Configurable Coding Standard Compliance	✓
Enterprise Reporting Integration	✓
Integratable with Code Management Systems	✓
Command Line Interface	✓
Role dependent and customizable user profiles	✓
Windows 98,2000,NT,XP,ME, Solaris, Linux	✓
Integrates with QJ-Pro Java Code Analyzer	✓