MES Quality Commander® (MQC)

The MES Quality Commander$^®$ (MQC) clearly maintains an overview of all quality measures, not only those in the model, but for the entire software. The MQC Quality Dashboards guarantee that everything is always in view.

Quality monitoring of software products

MQC captures all key data relevant to product quality throughout your software lifecycle. As a dynamic management and control tool for use in qualitative software development, it provides you with an objective basis for decision-making and reliable risk control. The MES Quality Commander$^®$ evaluates the quality and viability of your software product on the basis of all relevant development artifacts as well as the corresponding status and performance metrics.

Adaptable quality model

The MES Quality Commander$^®$ uses a quality model that can be individually customized to your quality targets and development processes. Ready to use quality model templates/blueprints for supported tools are available as part of MQC and allow fast and easy out of the box usage. You are free to determine which quality measurements (e.g. guideline checking, complexity measurement, testing, requirements, coverage etc.) to use in the overall evaluation of your product.

Integration in toolchain

The MES Quality Commander$^®$ can be seamlessly integrated into your development environment or Continuous Integration. It does so by constantly monitoring known directories and importing new data automatically. MQC out of the box understands and reads the output of many different quality assurance tools.

MQC Overview

MQC automatically collects, normalizes, and consolidates all data that are relevant to software quality.

Your MES Quality Commander® benefits:

Confidence

- Objective assessment criteria assists decision-making
- Track product quality and process compliance with industry standards

Transparency

- Identify hotspots and where to take action
- Visualize product maturity and quality from specific artifacts to complete projects

Simplification

- Fast result distribution among many users
- Easy data import and result reports
- Seamless integration in CI environments

Unification

- Data normalization using a formal quality model
- Compare and aggregate all aspects of quality assessment

How MQC supports you:

1. Comprehensive quality assessment

Comprehensive quality assessment

What is the current status of my project, what is my most urgent problem, and what are the next steps to take in order to solve it? Check the project status and compare the progress with your expectations per milestones!
With an innovative concept linking project structure, data sources, and quality models, MQC provides a comprehensive quality overview for the whole development process.

2. Intuitive and powerful visualizations

Intuitive and powerful visualizations

Compact and interactive visualizations provide multiple views of your data, such as a general overview or details views. Guided by a common look and feel, you can analyze all relevant KPIs and quality results in trend and status to gain an overview of product quality level as well as maturity.

3. Root cause detection

Root cause detection

Use flexible filters and selections to focus on hot spots of insufficient quality. Drill down to the underlying data to detect the root cause of problems. In this way, MQC provides a reliable basis for risk assessment and decision-making during each step of your project.

4. Data gap analysis

Data gap analysis

MQC extracts and homogenizes huge sets of data from heterogeneous data sources. Imported data is structured using different levels, such as artifacts and data sources. Easily detect missing data by examining the availability of your expected data and its evolution over time.

5. Standard compliance

Standard compliance

The verification and documentation of process completeness and product quality provided by MQC supports you in keeping your development process compliant to the respective industry standards (i.e. ISO26262, ISO25119, IEC61508, etc.). Additionally, all measure and quality definitions used in MQC are

compliant with ISO2501x.