



QUALITYMATE FOR REQUIREMENTS MANAGEMENT

QualityMate suite of tools enables organizations to industrialize the software development process providing support for different process activities like Requirements Management, Tests Management and Issues Management.

QualityMate solution does not imply you to work in a pre-determined way or apply a specific methodology. QualityMate easily adapts to the way your organization works. Whether your process is highly structured or very agile, QualityMate can be customized to support the way your teams work. You can create an infinite number of entity types and for each one, infinite number of entity attributes. Each entity attribute can be configured to support your own information needs. The workflow process can be completely configured by setting security options and creating constraints, actions and transitions rules for each atomic attribute. By doing this you can be sure your process will be institutionalized.

All the information is stored in the central repository in a hierarchical way and flows naturally between all the different modules, being constantly refreshed without the need of any integration or other process of import/export.

REQUIREMENTS ENGINEERING PROCESS

Requirements engineering process is regarded as one of the most important parts of building a software system. The process main goal is to determine what is to be implemented, determining the needs for, and the intended external behaviour of the system.

This process can be divided in two main complementary areas. Gathering new information and managing existing information. For other words we can divide the process in two different but inter related activities: Requirements development and Requirements management.

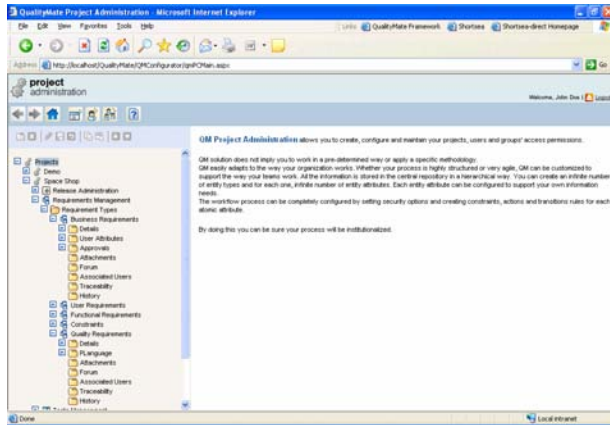
There are four activities regarding requirements development. You will need to start to identify potential new requirements, analyze the new information, validate, and document them.

As soon as you gather information you will have to concern on managing it. That's where management activities start. Requirement changes and impact analysis must be performed in order to keep the project on track. Different type of metrics should also be extracted in order to improve your process.

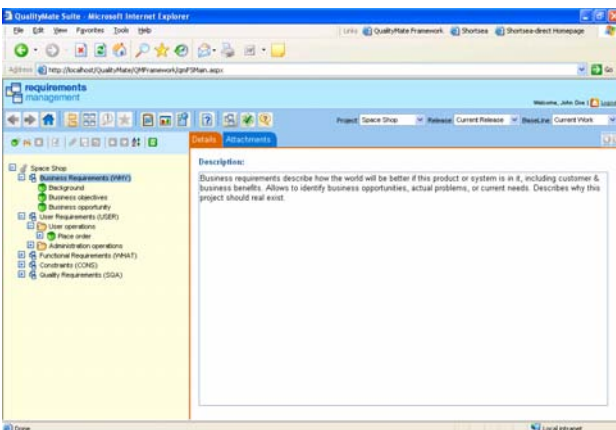


1. Requirements elicitation

Gathering, discovering, creating new requirements. Start to organize all the information by creating different requirement types where you can store different kind of information.



Start to define your own requirement types

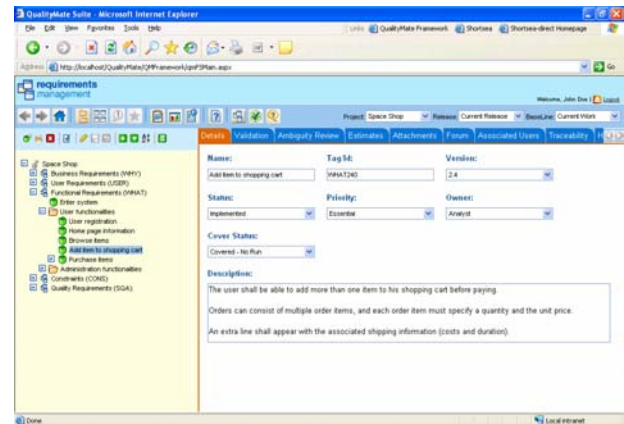


2. Analysis

Understanding requirements. Represent the requirements in multiple different points of view, in both textual and graphical, using diagrams, prototypes and test cases. These different views will reveal insights and problems that no single view can provide. Attach extra information, share different ideas from all stakeholders, and prioritize the requirements.

Iteration is a key to requirements development success. Plan for multiple cycles of exploring requirements, refining high level requirements into details, and confirming correctness with users. All this information must be managed by:

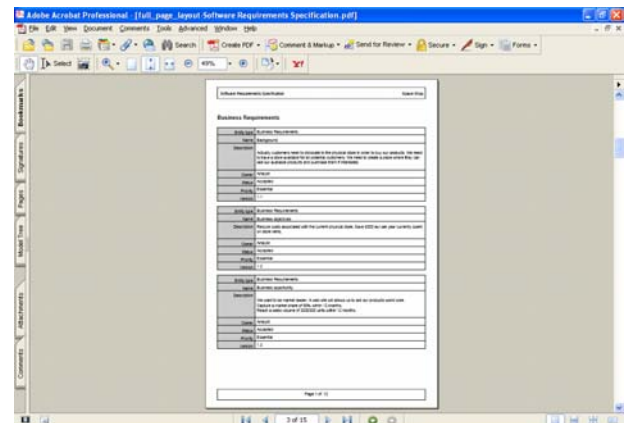
- defining new releases and new baselines;
- reviewing proposed requirements changes and evaluating the impact before approving it;
- incorporating approved requirements changes into the project in a controlled way;
- keeping project plans current with the requirements;
- negotiating new commitments based on estimated impact of requirements changes;
- tracing individual requirements to their corresponding designs, source code, and test cases;
- tracking requirements status and change activity throughout the project.



Common QualityMate framework functionalities helps you to analyze your requirements

3. Specification

Documenting requirements. Document them in some consistent, accessible, and reviewable way by using one of the in-box available reports.



4. Validation

Determining that requirements are correct, of high quality, and will satisfy user needs. You can do that by inspecting requirements documents and testing the requirements.

QUALITYMATE FOR REQUIREMENTS MANAGEMENT BENEFITS

Requirements engineering processes is considered to be a high negotiation process involving active stakeholders participation. QualityMate for Requirement Management is the right tool to support and facilitate your requirements engineering process by providing the following benefits:

Completely adaptable

QualityMate for Requirements Management does not force you to work in a pre-determined way or use a specific methodology. QualityMate easily adapts to the way your organization works. Whether your process is highly structured or very agile, QualityMate for Requirements Management can be customized to support the way your teams work. The workflow process can be completely configured by setting security options and creating constraints, actions and transitions rules for each atomic attribute. By doing this you can assure your Requirements Management process will be institutionalized.

Database centric

QualityMate for Requirements Management guarantees that the most current data is available to the people who need it, whenever they need it. Each requirement can always be associated with any other requirement type, test cases or even issues allowing you to draw conclusions about your project.

Access information from anywhere

QualityMate for Requirements Management is a complete web-based four tier solution. The client layer is supported by a web browser, the presentation layer is developed using .Net technology, the business layer was developed using Java technology and the data layer which can be stored in Microsoft Access or Microsoft SQLServer databases. This technology allows you to access the information from anywhere without installing any extra software on your desktop.

Easy-to-use interface

Intuitive user interface allows you to guarantee a short learning curve for all stakeholders.

Automatic notifications

Users can receive automatic notifications every time a defined condition is met.

Improve collaboration

Forum discussion allows stakeholders to provide important input regarding Requirements Management information.

Audit trail and change history

Every change is automatically audited. Each change creates a unique history record, highlighting the differences between one version of a requirement and another, including the reason for the change.

Parallel development

Different project releases allow different teams working on the same project but in different releases of the product. Baselines can be created for each project release. By comparing baselines and respective releases you can see where volatility, modifications, additions, and deletions have taken place.

Development Tools



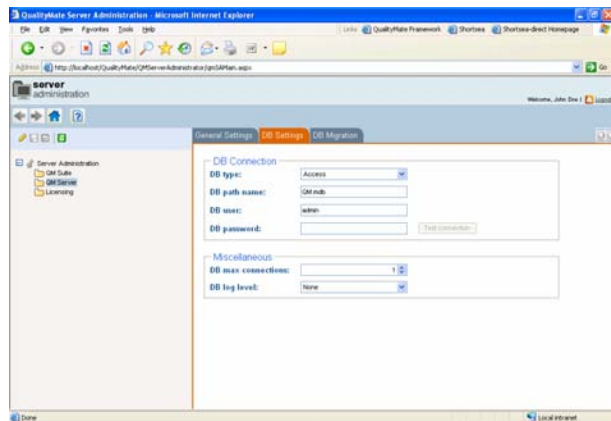
Administration Tools



QUALITYMATE FOR REQUIREMENTS MANAGEMENT COMPONENTS

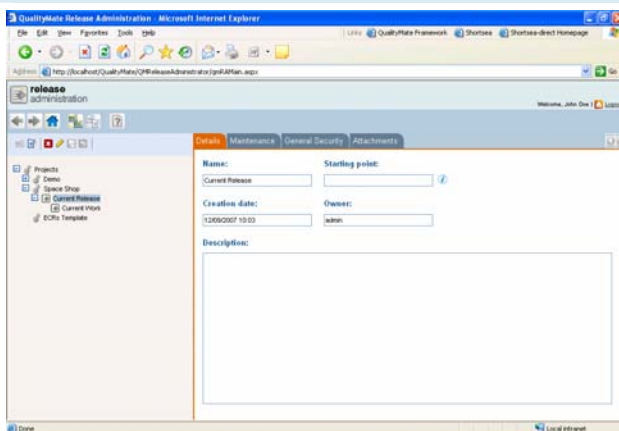
QualityMate for Requirements Management includes the following components:

QualityMate Server administration



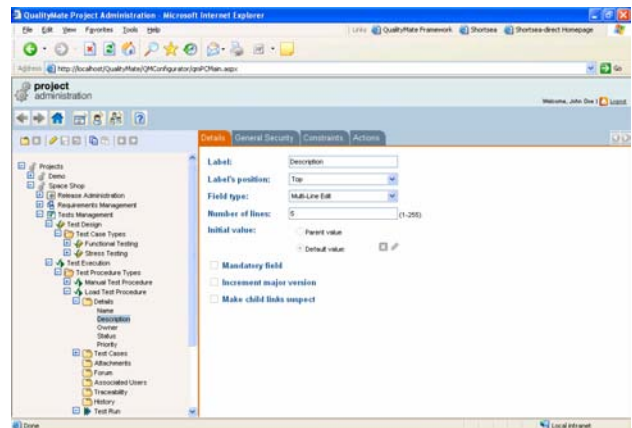
This utility enables QualityMate administrator to set up all QualityMate Server options such as database connectivity, and licence management.

QualityMate Release administration



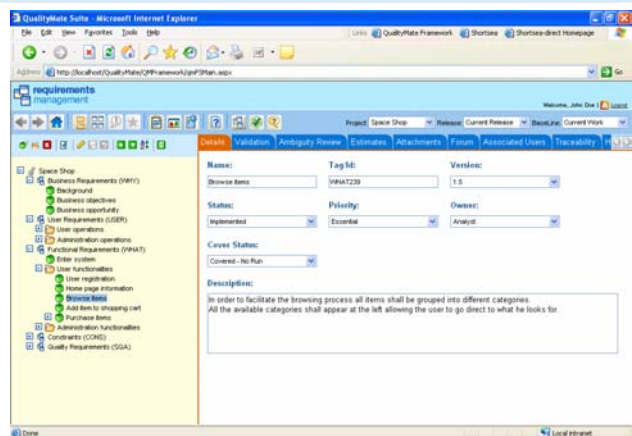
This utility enables QualityMate administration to manage project releases and baselines.

QualityMate Project administration



This utility enables QualityMate Administrator to manage project specific tasks such as project configuration and user management.

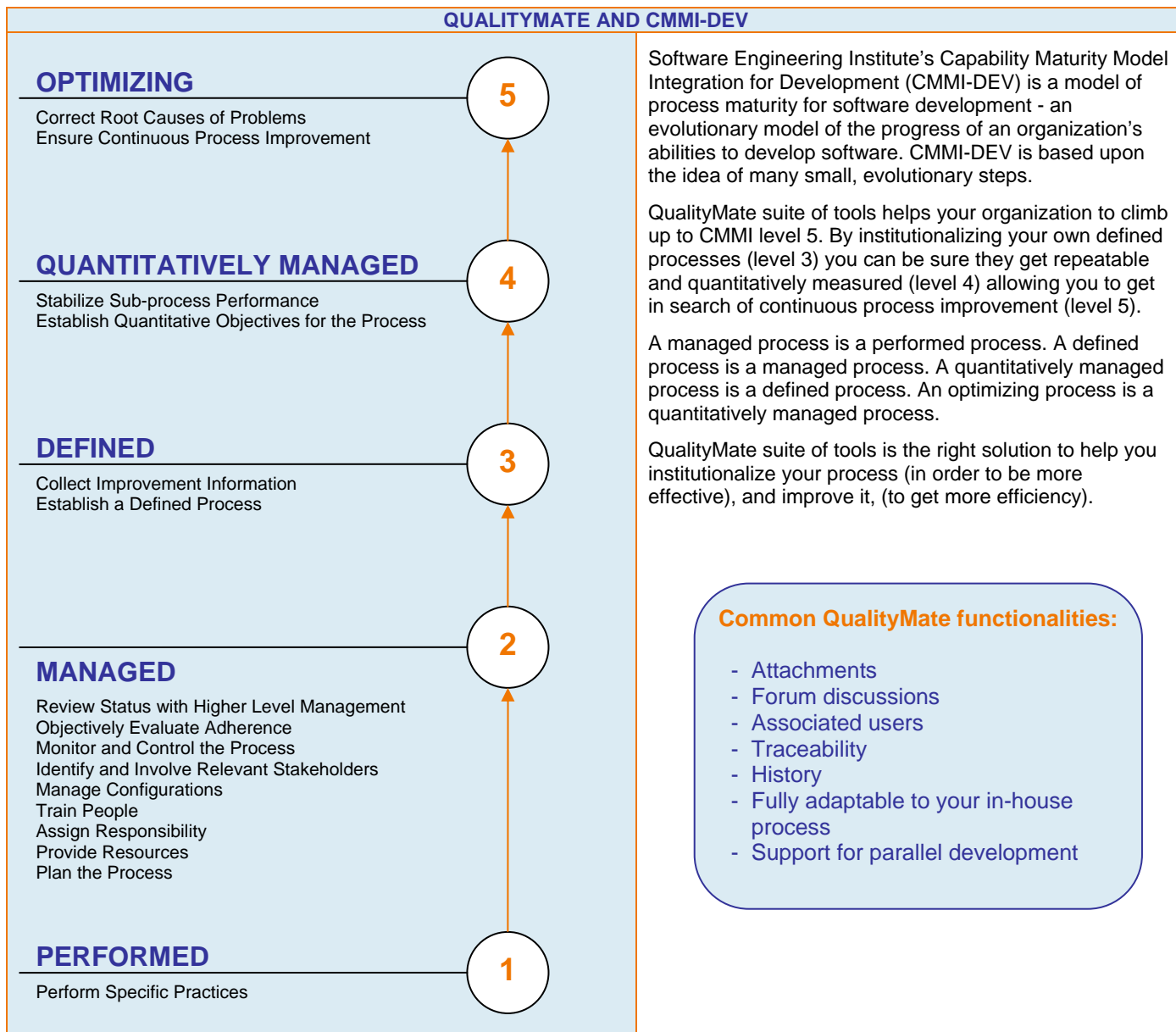
QualityMate for Requirements Management



Requirements Management application module. QualityMate for Requirements Management is the right tool to support and facilitate your requirements engineering process.

PROCESS IMPROVEMENT

QualityMate for Requirements Management is the right tool to improve your requirements engineering process.



MINIMUM SYSTEM REQUIREMENTS

Client:	Microsoft Internet Explorer 6.0
QM Suite:	Pentium III /1.3 GHz or higher microprocessor A minimum of 512 MB of RAM 55 Mb of free disk space Windows 2000 SP4 or higher or Windows XP Professional SP2 .Net framework 1.1
QM Server:	Pentium III /1.3 GHz or higher microprocessor A minimum of 512 MB of RAM 150 Mb of free disk space Windows 2000 SP4 or higher / Windows XP

TECHNOLOGY

QM Client:	Microsoft Internet Explorer 6.0
QM Suite:	Presentation layer is developed using .Net technology
QM Server:	Business layer is developed using Java technology
QM Repository:	Data layer can be supported by MS Access or MS SQL Server databases