

MKS INTEGRITY

for Requirements Management

MKS is the first vendor to offer robust support for requirements reuse and persistence, and requirements versioning and baselining

CHALLENGES

UNIFYING REQUIREMENTS AS PART OF THE LIFECYCLE

Requirements may be the most critical aspect of the software development lifecycle. If requirements are wrong or not clearly communicated, the system will ultimately be flawed. Indeed, industry experts in software risk mitigation note that 80 percent of software projects are at risk due to creeping requirements. Therefore managing changing requirements and scope creep must be an integral part of an organization's overall development process, and is vital to mitigating risk on large development projects. Most current market solutions are decoupled from the development process. They do not foster collaboration between people in the business generating requirements and the software developers building the end-product.

REQUIREMENTS REUSE

Software development teams have software configuration management tools to support parallel development, baselining of software configurations and reuse of software components. Today's sophisticated requirements management users have a similar, but unmet need to associate and reuse requirements in a parallel development scenario while maintaining traceability throughout the lifecycle. No traditional, first generation requirements management vendor today can offer capabilities in this area, and none of these generation one vendors have the core product architecture to do so in the near term.

THE SOLUTION

You are seeking the ultimate unified requirements management solution — one that inspires collaboration between business users and developers and maximizes efficiency, collaboration and traceability.

MKS Integrity for Requirements Management offers a completely unified approach, where requirements are the first step of the continuous process connecting needs to design, development, testing and deployment phases of the application lifecycle both within a project and between projects within the enterprise. MKS Integrity for

Requirements Management, unlike other vendor offerings, is not a siloed, stand alone tool.

The MKS solution extends MKS Integrity's highly flexible and powerful process and workflow engine, and is built on MKS Integrity's powerful modern architecture. MKS is the first vendor to deliver to the market robust support for requirements reuse and persistence, versioning and baselining, and integrated change management within a highly flexible authoring and approval environment.

MKS inspires collaboration between business users, developers and quality professionals

- **CIOs and CTOs** can achieve greater business alignment and efficiency by ensuring final products and services directly meet business needs.

- **BUSINESS ANALYSTS** can easily author requirements and automatically communicate with development teams using MKS's document, list or hierarchical user interfaces or through integrations with common business tools, such as Microsoft Word and Excel.

- **BUSINESS MANAGERS** can be assured requirements are approved and authorized and view an audit trail of all changes related to a specific requirement.

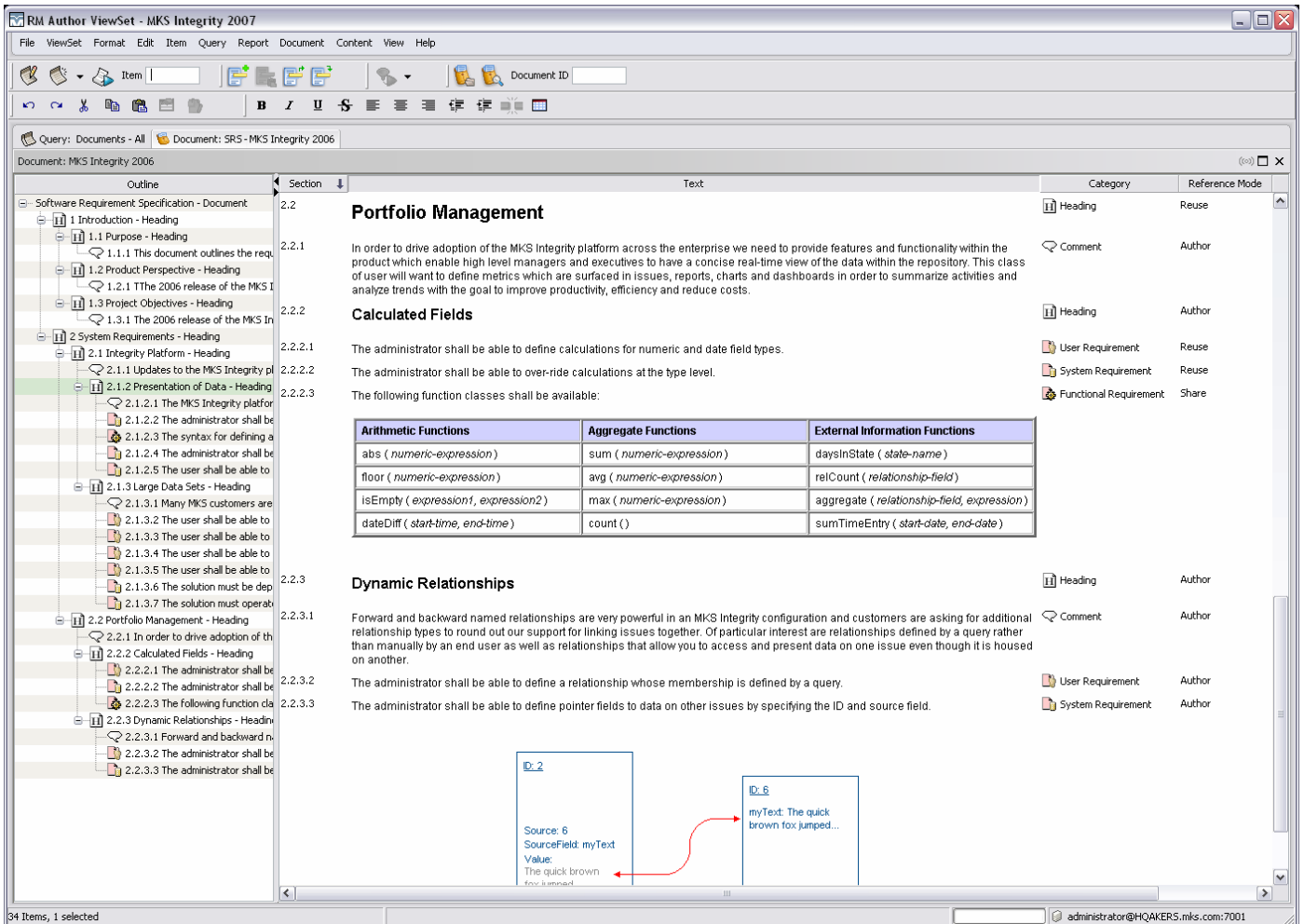
- **DEVELOPMENT and QUALITY ASSURANCE MANAGERS** can better manage risk through the software development lifecycle, through more comprehensive management of new and changing requirements, designs and tests.

- **PROJECT MANAGERS** can realize productivity and efficiency gains as well as shorten project schedules and time to market through reuse of individual or sets of requirements.

- **DEVELOPERS** gain real time notification of changes to requirements, and can directly connect their programming activity back to business needs and goals.

- **EXECUTIVES** gain visibility into project execution through metrics and real time status reports and dashboards.

- **TEAMS ACROSS the APPLICATION LIFECYCLE** collaborate more effectively and remain in constant communication through the use of a single ALM platform and unified process.



Document view supports structure, context-based authoring, rich text, tables and in line images

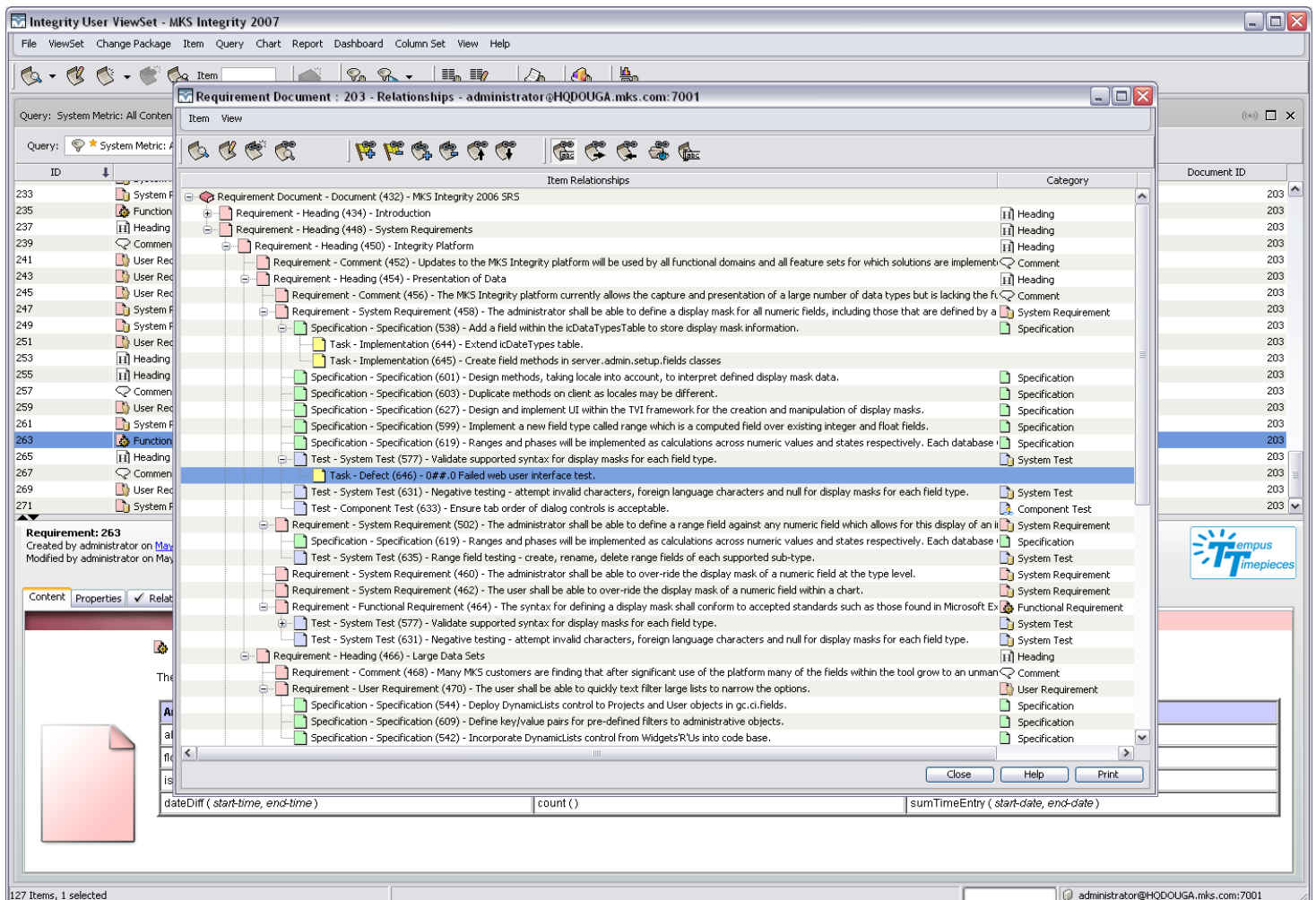
The only requirements management solution

available today built as an extension of the application lifecycle, enabling traceability, change and configuration management over requirements through every stage of the software development process.

FEATURES AND BENEFITS

- Unified requirements change management allows for individual requirements or documents to follow their own lifecycle path. Requirements can evolve, branch or change where authorization permits while MKS Integrity maintains a complete audit trail of every change.
- Document view and rich text support enables business analysts to author requirements in a traditional and familiar document view in addition to the list and hierarchical views.
- Requirements reuse and persistence offers a unique capability allowing for groups of requirements to be associated and re-used in a parallel development scenario.
- Requirements versioning and baselines provide the ability to securely identify

- a point in history for a requirement or document, and navigate the system based on that baseline, and begin new work with the baseline as a starting point.
- Process enforcement capabilities tied back to requirements protects the project schedule by restricting development of features and preparation of test plans until requirements have reached an appropriate state. Rich and open API enables integration with existing enterprise technologies.
- Conflict resolution provides the ability for multiple users to contribute to a single item or requirements document, notifying authors of change and resolving conflicts upon submission of edits.



Trace requirements through the downstream lifecycle to delivery

MKS Integrity also offers:

MKS Integrity for Portfolio Management

MKS Integrity for Process and Workflow Management

MKS Integrity for Software Configuration Management

MKS Integrity for Test Management

MKS Integrity for Release Management

Implementer for System i5

- Seamlessly trace and navigate interactively between documents and through various levels of requirements to design features and specifications, assigned tasks, testing and deployment activities and view activity in context with associated source code changes -- all within in a single system and user interface.

- Powerful querying, charting, reporting and dashboards provide management visibility into requirements progress and project status and enables users to mine data directly from the system to monitor such key performance metrics as requirements churn and rework.

- Association of all development artifacts from source code to documentation to test plans directly to the related requirement is essential for traceability and a value add for organizations who must withstand audit scrutiny.

- Suspect link flagging, automated email notification and reporting that captures changes to requirements and notifies appropriate personnel — business users and developers — of possible impacts.

- Historical reporting that demonstrates to business users and project managers

how a single requirement, a complete document or the entire project has changed over time.

- Organize requirements logically, provide traceability and assess the impact of requirement changes with a hierarchical structure of requirements.

- Flexible and powerful workflow with approval cycles ensures only authorized personnel can alter or add requirements.

- Integration with Microsoft Word and Microsoft Excel enables easy import and translation of business-based requirements prescribed in these tools into the MKS Integrity repository.

If you are upgrading from a previous release of MKS Integrity your current system requirements have not changed.

If you are installing MKS Integrity for Requirements Management for the first time, you should consult MKS Global Customer Care (800-219-4842 or support@mks.com) to help determine what your particular system requirements are. Many factors, such as number of users, datasets and usage profiles need to be assessed in configuring the optimal system.

MKS

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