



# OMNITRACKER



## Requirements Management Center

Overview



- OMNITRACKER Requirements Management Center in Overview
  - Workflow at a glance
  - Information model
  - Documentation and reports
- Technical features
- Definition of Requirements
- Realization process
- Web Portal
- Extensibilities

## Efficient management of requirements with OMNITRACKER Requirements Management Center (RMC)

- Software tool to cover the entire process beginning with the elicitation of requirements up to the release of their implemented functions
- Workflow based process control
- Generic information model, easy adaptable and extensible
- Common platform for customer (ordering party) and the contractor
- Clear communication between the involved parties
- HOOD INSIDE certified

- The OMNITRACKER Platform for easy configuration and adaption of business process applications
- Variety of pre-defined, integral applications (process module)
- Our solution grows in step with the goals and the maturity of your organization.
- Step-by-step extension of existing solutions according to the needs and the maturity of an organization as well as realization and migration of further business processes.

### General

- Requirements management and systems engineering process tool, allowing for easy and quick implementation, enabling fast ROI
- Generic information model, easily adaptable to customer processes
- Supports several levels of abstraction (e.g. customer, system and design requirements)
- Provides a common understanding between customer and contractor about the system to be developed and its functionality and technical features
- Grouping and structuring of requirements as specifications (documents)
- Automatic creation of documentation with report/print-out functionality for specifications, requirements and use cases
- Entire documentation and logging of interactions between customer and contractor
- Web login for external access
- Integration of additional OMNITRACKER solutions

## Data Structure and Process Control

- Efficient OMNITRACKER data structures support linking of requirements and their visualization across several levels of abstraction
- Control the completeness of a derivation (traceability of requirements) using extensible filter and search mechanism
- Role-based authorization concept
- Workflow-based process control for specifications, requirements and use cases
- Workflow-based escalations

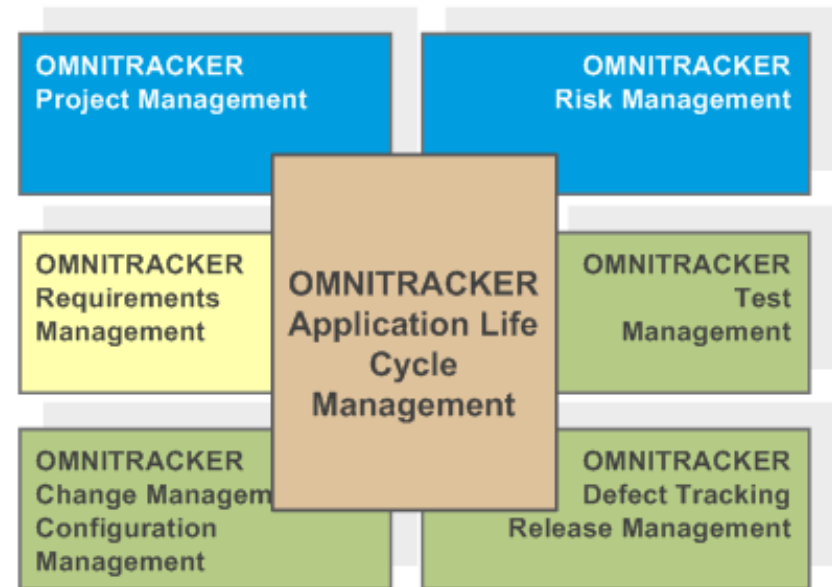
## Definition of Requirements

- Define system scope
- Management of stakeholders, their roles and issues
- Elicitation, specification and analysis of requirements
- Allows for a fast input of requirements and derived requirements in grid view (without exchanging the form)
- Management and support of review and release process
- Management and versioning of requirements
- Recording and administration of use cases

## Implementation

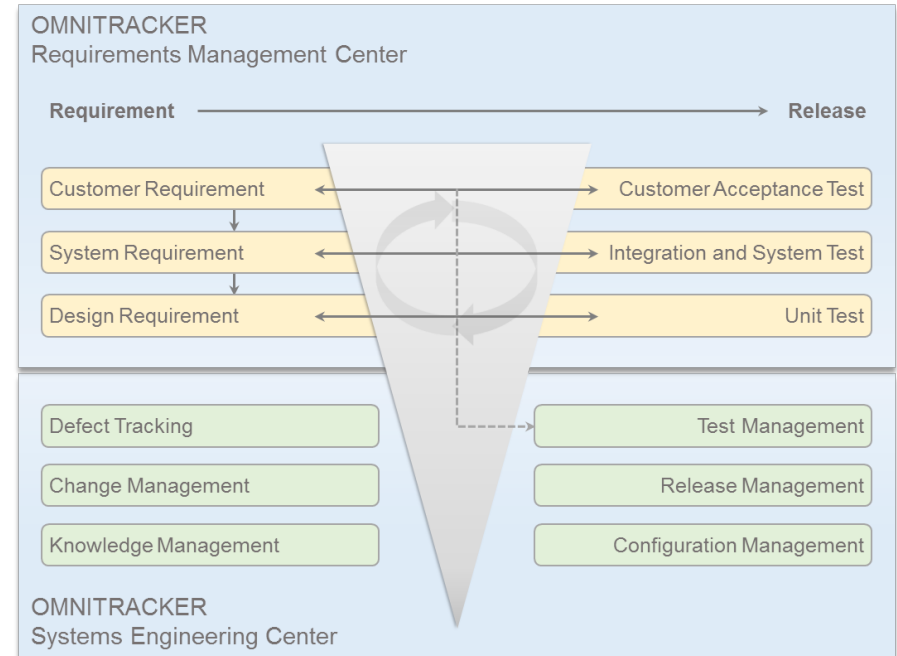
- Management of the implementation of requirements
- Providing requirements for approval by the customer
- Recording and providing test results
- Approval of the implementation by the customer's project manager

- For achieving level 2 of CMM maturity, an organization must have introduced at least the following processes:
  - RM&E process
  - Project Planning
  - Project Monitoring and Control

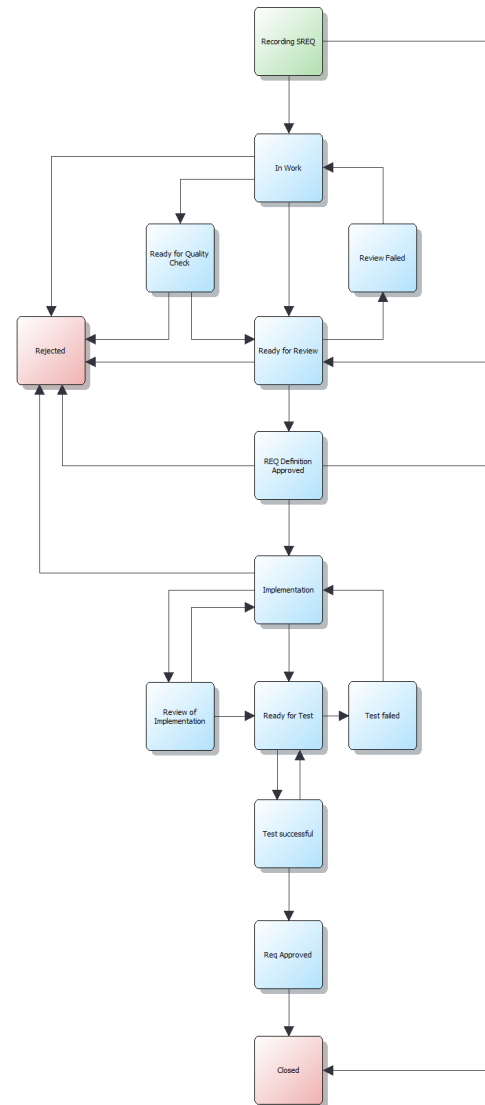




Combining the OMNITRACKER applications **Systems Engineering Center**, **Requirements Management Center** and **Project Management Center** accomplishes a "One Tool Solution" for software development process management. Setting up interfaces towards existing version control and build systems as well as towards automated test systems effectively supports process control and progress tracking.



- **Requirements definition**
  - Elicitation
  - Specification
  - Analysis
  - Review
- **Realization**
  - Implementation
  - Test
  - Release

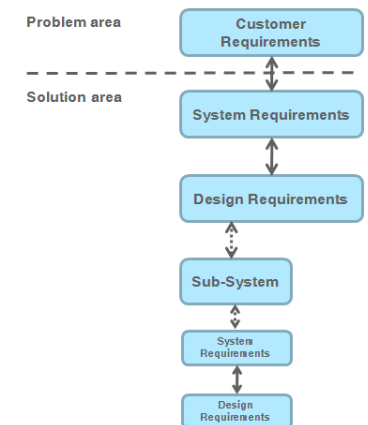


## Definition 'Requirement':

*A requirement is a requested property of a system to be developed.*

## Generic and easily **adaptable**

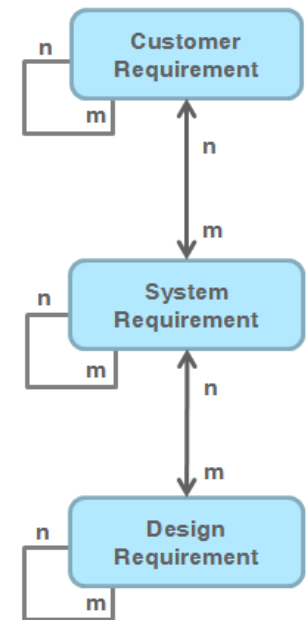
- The information model follows the methods and process definitions of the HOOD Requirement Management & Engineering Processes.
- The information model provides for the definition of requirements in a structure of several levels of abstraction, in particular:
  - Customer Requirements (CREQ)
  - System Requirements (SREQ)
  - Design Requirements (DREQ)



Generic Information Model  
(according to HOOD)

- **Customer Requirements:**
  - Describe from a customer's point of view what functionality the system has to support
  - Define specific objectives, which have to be fulfilled by implementation
- **System Requirements:**
  - Describe what has to be delivered to satisfy the customer requirements
- **Design Requirements:**
  - Define in detail how to realize the system requirements

Note: The synonym "xREQ" is used to refer to any of CREQ, SREQ or DREQ.

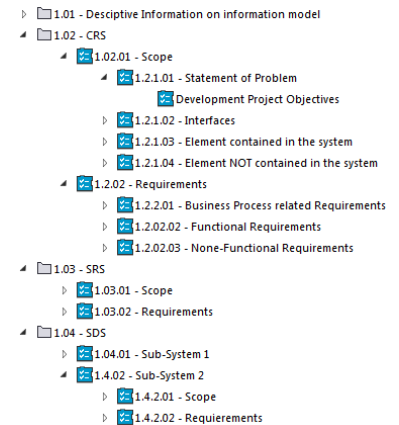


*Modeling of Requirements*

## Definition 'Specification':

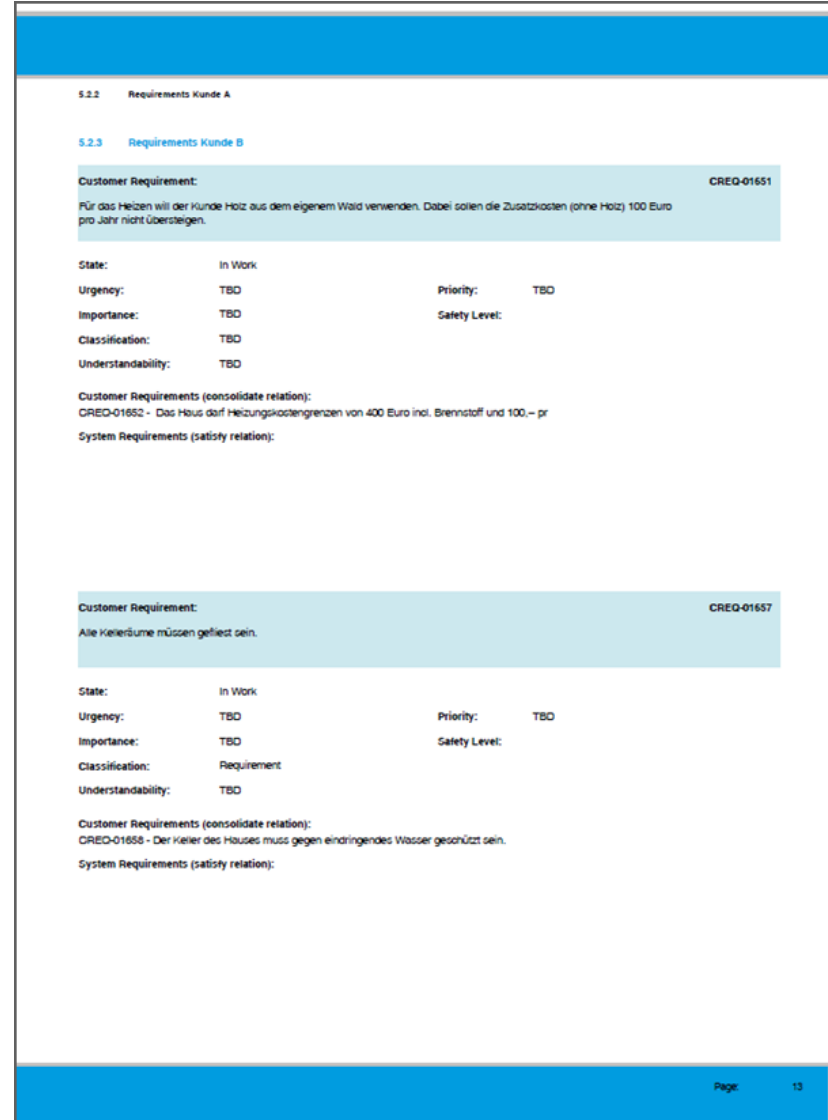
*The specification is the sum of requirements agreed on for a system to be developed.*

- Support of different types of specifications to help with grouping and structuring
  - System Specification (top level of the specification)
  - Customer Requirements Specifications (CRS)
  - System Requirements Specifications (SRS)
  - Design Requirements Specifications (DRS)
  - Chapter (for structuring the specification)
  - Subsystem (e.g. for modeling delegation or subcontracting)



## Creation of the documents required for project work

- Automated creation of documentation in a variety of file formats (for example MS Word, PDF, RTF, MS Excel, XML)
- Specification:
  - Consists of requirements that belong together including all important attributes
  - Basis of the reviews carried out by customers before approval of the implementation
- Data sheet for requirement:
  - Printout of individual requirements
- Data sheet for use case:
  - Printout of individual use cases



5.2.2 Requirements Kunde A

5.2.3 Requirements Kunde B

**Customer Requirement:** CREQ-01651

Für das Heizen will der Kunde Holz aus dem eigenem Wald verwenden. Dabei sollen die Zusatzkosten (ohne Holz) 100 Euro pro Jahr nicht übersteigen.

State: In Work  
Urgency: TBD Priority: TBD  
Importance: TBD Safety Level:  
Classification: TBD  
Understandability: TBD

Customer Requirements (consolidate relation):  
CREQ-01652 - Das Haus darf Heizungskostengrenzen von 400 Euro incl. Brennstoff und 100,- pr

System Requirements (satisfy relation):

**Customer Requirement:** CREQ-01657

Alle Kellerräume müssen gefliest sein.

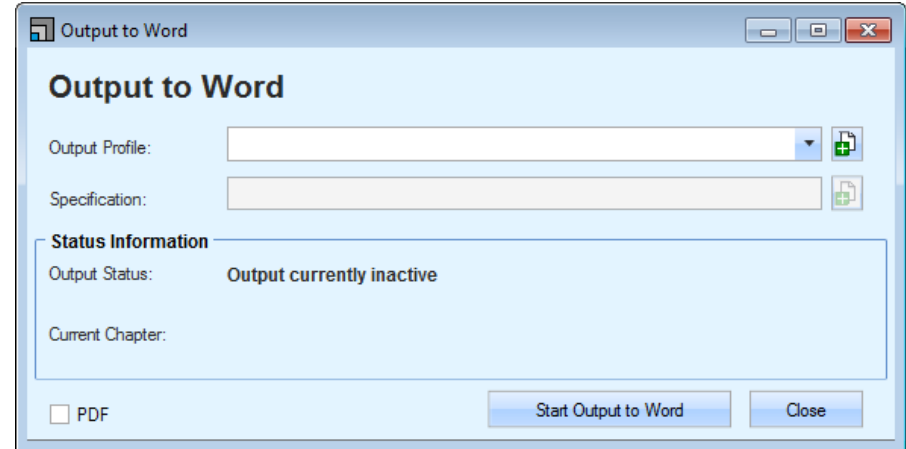
State: In Work  
Urgency: TBD Priority: TBD  
Importance: TBD Safety Level:  
Classification: Requirement  
Understandability: TBD

Customer Requirements (consolidate relation):  
CREQ-01658 - Der Keller des Hauses muss gegen eindringendes Wasser geschützt sein.

System Requirements (satisfy relation):

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- Easily output a specification or certain chapters from the OMNITRACKER RMC to Microsoft Word.
- All formatting used in the requirements will be kept.
- Graphics and screenshots used in the requirements are included in the Word document.
- Configurable using Microsoft Word document templates and settings in OMNITRACKER
- Easily configurable which field contents of the requirements shall be included in Microsoft Word
- Accessible directly from the specification or using the shortcut bar



- Export and re-import of requirements into other OMNITRACKER systems
- Simple and flexible customization of existing reports
- Creation of further user-defined reports and export of these in a variety of file formats
- Generic Excel import for customer and system requirements

### OMNITRACKER System Requirements

**System Requirement:** SREQ-01633 Last Change : 3/5/2009 6:13:07PM  
Creation Date : 3/4/2009 6:57:45PM

SHOOD NS DE Beispielprojekt "Doppelhaushälfte" - 4 SRS - 2 Requirements

**Definition:**

Bei einer Durchschnittsaussentemperatur zwischen 1. Oktober und 15. März von 5°C und einer durchschnittlichen Raumtemperatur von 21°C darf das Haus Heizungsgesamtkosten von 400 Euro pro Jahr nicht überschreiten, Bedingung: Berechnungsbasis ist ein Heizölpreis von 0,50 Euro pro Liter und ein Strompreis von 0,19 kWh. Die mittlere Raumtemperatur darf dabei 20°C nicht unterschreiten.

**State:** In Work  
**Understandability:** analysing  
**Classification:** Requirement  
**Version:** 1

**Customer Requirements (satisfy Relation)**

CREQ-01652 Das Haus darf Heizungsgesamtkosten von 400 Euro incl. Brennstoff und 100,- pro  
**State:** In Work  
**Classification:** Consolidated Requirement

**System Requirements (Consolidate Relation)**

SREQ-01684 In den Wintermonaten darf die Raumtemperatur zur Tageszeit (7.00 -22.00 Uhr) 20°  
**State:** In Work  
**Classification:** Requirement

**Design Requirements (satisfy relation)**

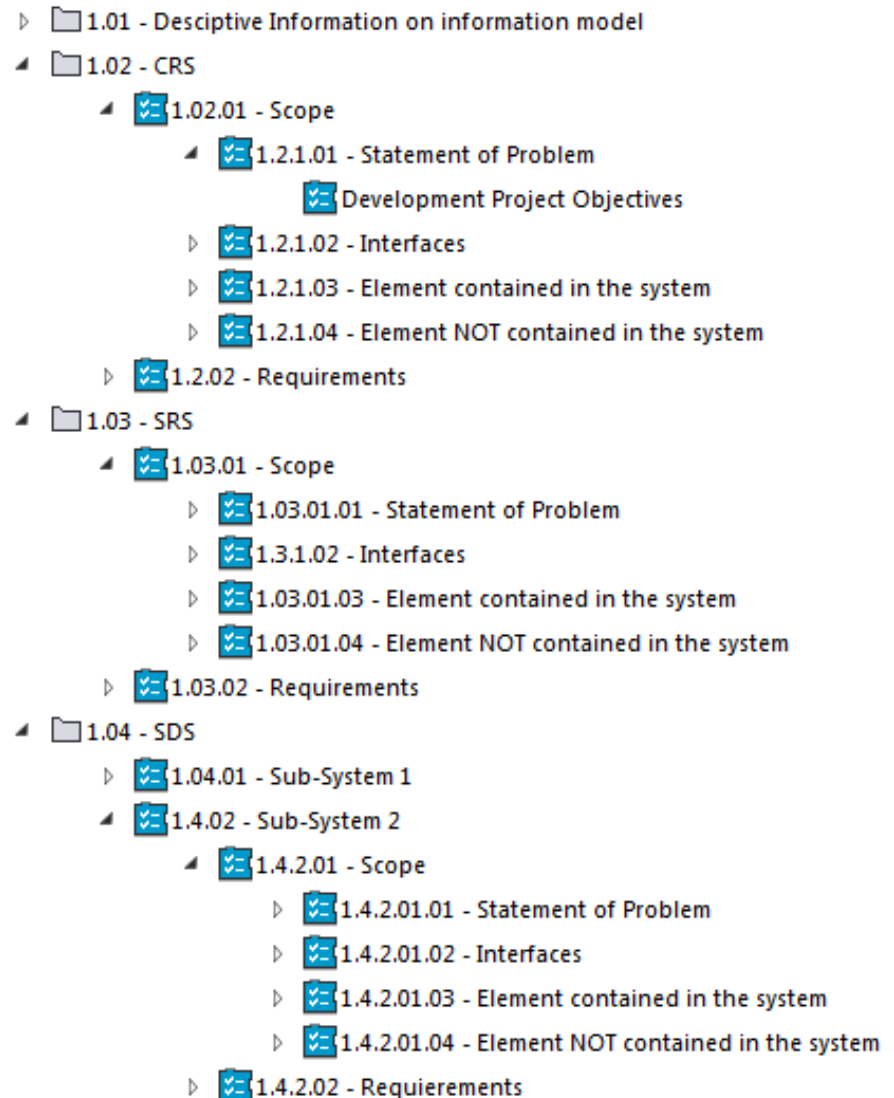
DREQ-01654 Bei Ausführung in Ziegelbauweise muss das Haus Außenmauern mit 50cm Dicke haben.  
**State:** In Work  
**Classification:** Requirement



- The requirements definition process includes two essential areas:
  - Definition of system scope (Scoping)
  - Definition of requirements
- The process generally runs through several iterations (the activities listed above are repeated)
- Process iterations include all levels of abstraction, so that, for example, specification of customer and system requirements can run in parallel.
- Process progress can be read from the workflow state.

## Definition of System Scope (Scoping)

- Outline of the item to be developed
- Identification of function blocks/subsystems
- Identification of interfaces
- Identification of stakeholders, their role and priority
- Scoping is applicable to every level of abstraction of requirements (e.g. customer, system and design requirements).

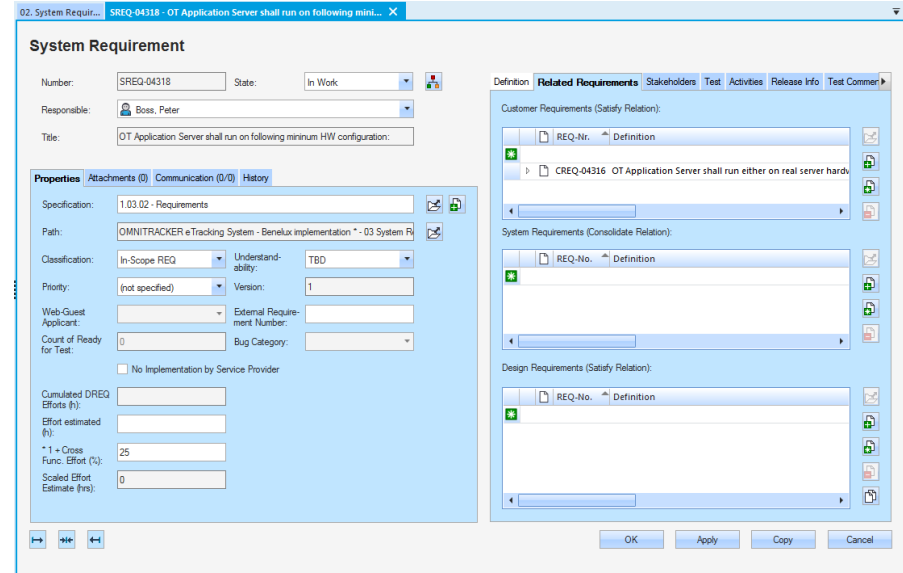


## Definition of Requirements

- Requirements elicitation
- Requirements specification and classification
- Requirements analysis and prioritization
- Requirements review

## Form System Requirement

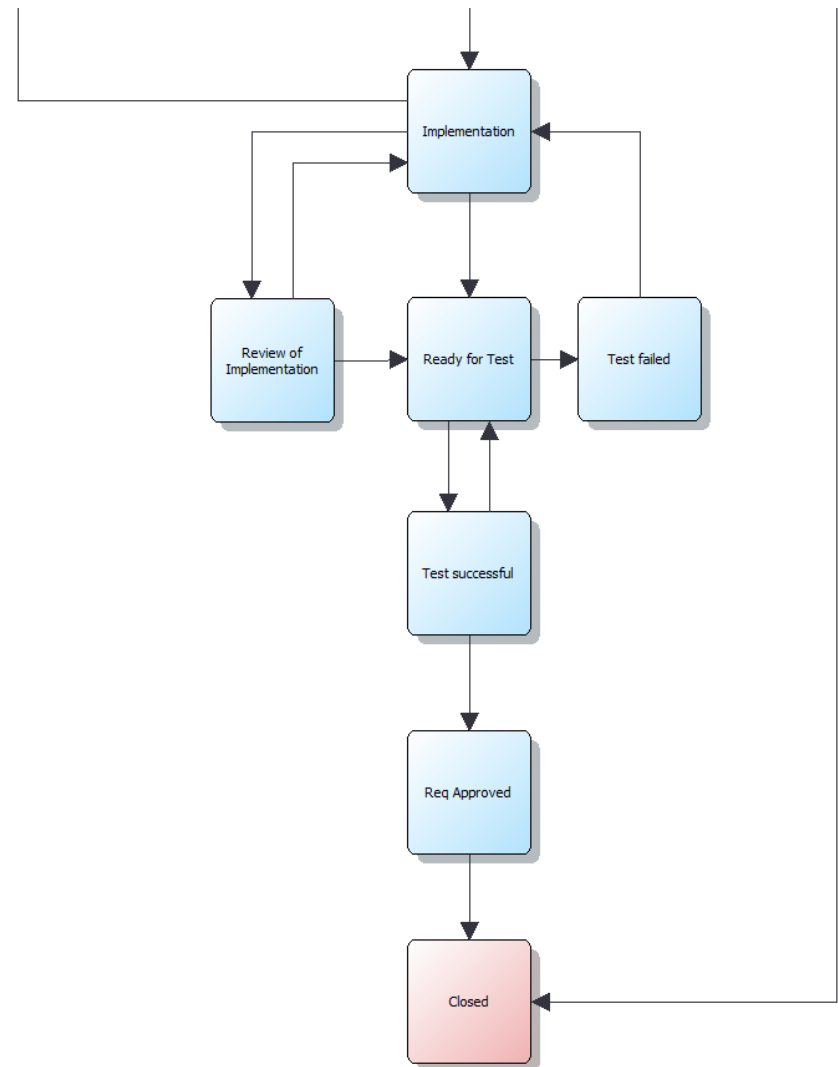
- Levels of abstraction can be seen at a glance.
- Derivation and linking of additional requirements.



The screenshot displays the 'System Requirement' form in the OMNITRACKER application. The form is titled 'System Requirement' and is for requirement SREQ-04318, which is currently in the 'In Work' state. The responsible person is 'Boss, Peter'. The title of the requirement is 'OT Application Server shall run on following minimum HW configuration:'. The form is divided into several sections: 'Properties', 'Attachments (0)', 'Communication (0/0)', and 'History'. The 'Properties' section includes fields for 'Specification' (1.03.02 - Requirements), 'Path' (OMNITRACKER eTracking System - Benelux implementation - 03 System R), 'Classification' (In-Scope REQ), 'Priority' (not specified), 'Web-Guest Applicant', 'Count of Ready for Test' (0), 'Cumulated DREQ Efforts (h)', 'Effort estimated (h)', '\* 1 = Cross Func. Effort (%)', 'Scaled Effort Estimate (hrs)', 'Understandability' (TBD), 'Version' (1), 'External Requirement Number', and 'Bug Category'. There is also a checkbox for 'No Implementation by Service Provider'. On the right side, there are three panels: 'Customer Requirements (Satisfy Relation)', 'System Requirements (Consolidate Relation)', and 'Design Requirements (Satisfy Relation)'. Each panel shows a list of related requirements with their IDs and definitions. At the bottom of the form, there are 'OK', 'Apply', 'Copy', and 'Cancel' buttons.

## Implementation of system functionality

- OMNITRACKER RMC contains the process of implementation of the functionality specified as a supplement to the requirements definition processes based on HOOD RM&E methods and process descriptions.
- Basis of implementation are the design requirements.
- Activities of the implementation process:
  - Implementation
  - Test
  - Acceptance of implementation



- External users access OMNITRACKER Requirements Management Center using the web portal.
- All interactions and communication between customer and contractor are transparent and are recorded.
- If requested, access is made available to employees of the customer to enable them to participate actively in test and acceptance of requirements.



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## Support-Portal

### Online Support

Registered OMNITRACKER customers have access to our Online Support Portal. Through the OMNITRACKER Web Gateway customers can view the status of support requests of their own organisation and submit new queries.

- [Login \(submit / monitor / modify support requests\)](#)
- [Change password](#)
- [Forgotten your password?](#)

For support requests regarding Crystal Reports or product updates please contact Business Objects directly.

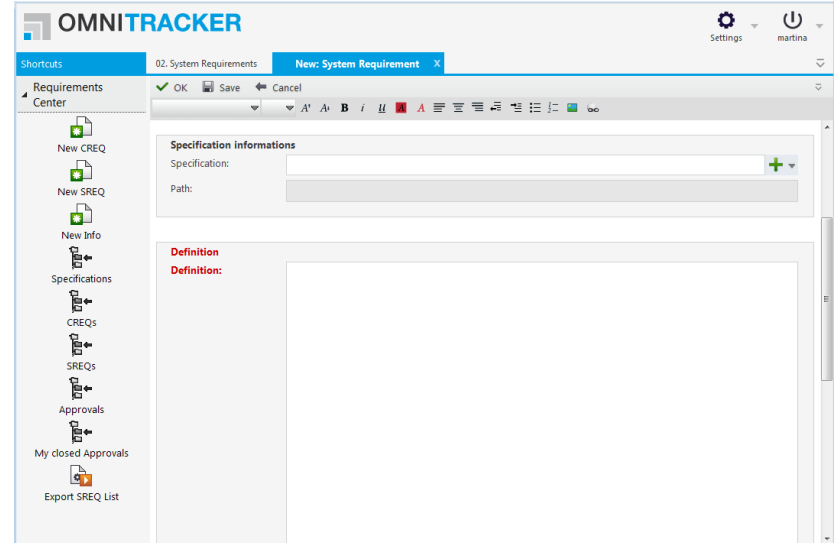
- [Business Objects support](#)

## OMNITRACKER Requirements Management

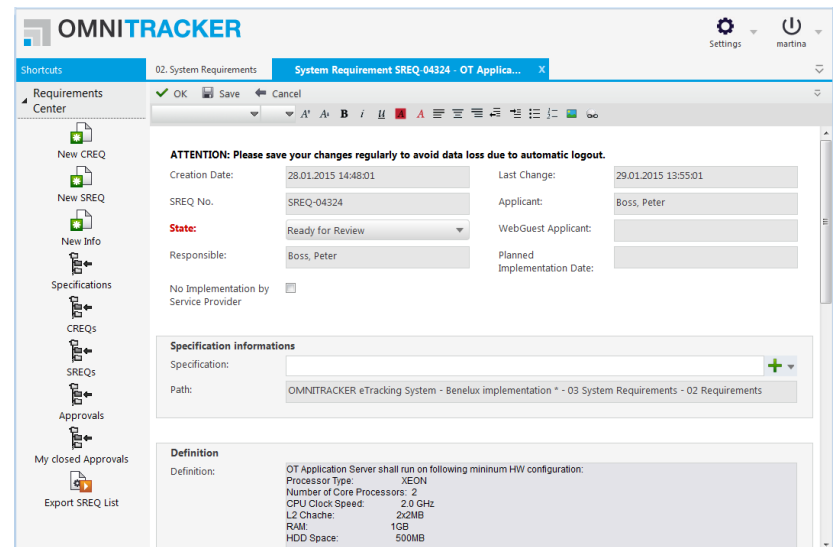
Registered OMNITRACKER customers have access to our Requirements Management. Through the OMNITRACKER Web Gateway via the following link you are able to check the status of requirements of your own organisation, to edit them or to create new requirements.

- [Login \(submit / monitor / modify requirements\)](#)

- The employees of the customer can
  - create new requirements
  - edit their existing requirements
  - add documents as attachments
  - query state of work progress
  - change workflow states of requirements
- The web portal offers comprehensive search and filter functions to enable effective use.

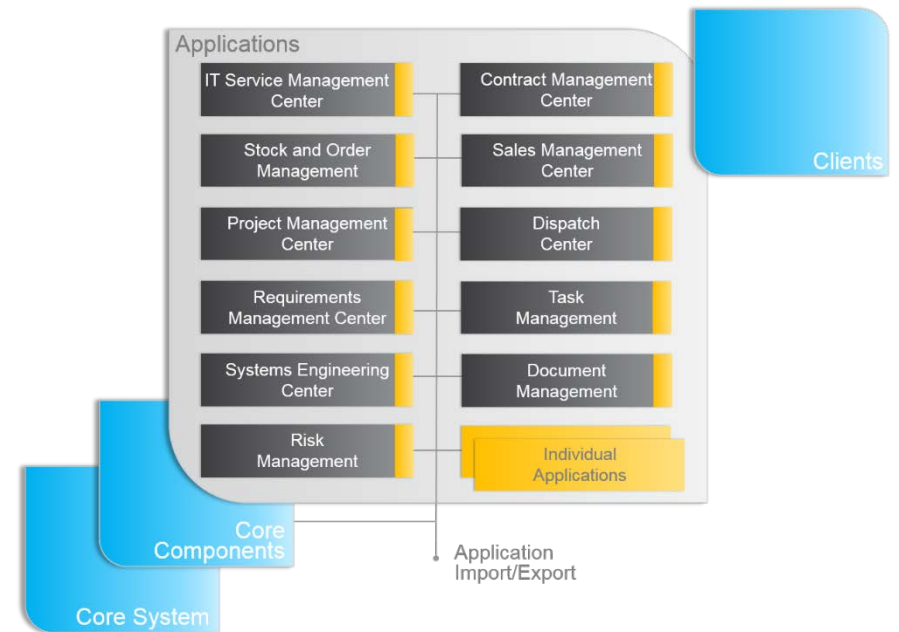


The screenshot shows the OMNITRACKER web portal interface. The top navigation bar includes the OMNITRACKER logo, a 'Settings' dropdown, and a user profile 'martina'. The main content area is titled '02. System Requirements' and 'New System Requirement'. A left sidebar contains a 'Requirements Center' with icons for 'New CREQ', 'New SREQ', 'New Info', 'Specifications', 'CREQs', 'SREQs', 'Approvals', 'My closed Approvals', and 'Export SREQ List'. The main form area has a toolbar with 'OK', 'Save', and 'Cancel' buttons. Below the toolbar is a 'Specification informations' section with a 'Specification:' dropdown and a 'Path:' text field. A 'Definition' section is also visible, containing a 'Definition:' label and a large text area.



The screenshot shows the OMNITRACKER web portal interface for an existing requirement. The top navigation bar includes the OMNITRACKER logo, a 'Settings' dropdown, and a user profile 'martina'. The main content area is titled '02. System Requirements' and 'System Requirement SREQ 04324 - OT Applica...'. A left sidebar contains a 'Requirements Center' with icons for 'New CREQ', 'New SREQ', 'New Info', 'Specifications', 'CREQs', 'SREQs', 'Approvals', 'My closed Approvals', and 'Export SREQ List'. The main form area has a toolbar with 'OK', 'Save', and 'Cancel' buttons. Below the toolbar is an 'ATTENTION: Please save your changes regularly to avoid data loss due to automatic logout.' warning. The form contains several fields: 'Creation Date: 28.01.2015 14:48:01', 'Last Change: 29.01.2015 13:55:01', 'SREQ No.: SREQ-04324', 'Applicant: Boss, Peter', 'State: Ready for Review', 'Responsible: Boss, Peter', 'WebGuest Applicant:', and 'Planned Implementation Date:'. There is also a checkbox for 'No Implementation by Service Provider'. Below these fields is a 'Specification informations' section with a 'Specification:' dropdown and a 'Path:' text field containing 'OMNITRACKER eTracking System - Benelux implementation \* - 03 System Requirements - 02 Requirements'. A 'Definition' section is also visible, containing a 'Definition:' label and a text area with the following content: 'OT Application Server shall run on following minimum HW configuration: Processor Type: XEON, Number of Core Processors: 2, CPU Clock Speed: 2.0 GHz, L2 Cache: 2x2MB, RAM: 1GB, HDD Space: 500MB'.

- OMNITRACKER Requirements Management Center can be integrated in existing OMNITRACKER installations.
- Possibility to integrate additional OMNITRACKER solutions, e.g. OMNITRACKER Systems Engineering Center or OMNITRACKER Project Management Center



Questions?





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