Requirements Integration in Test environments

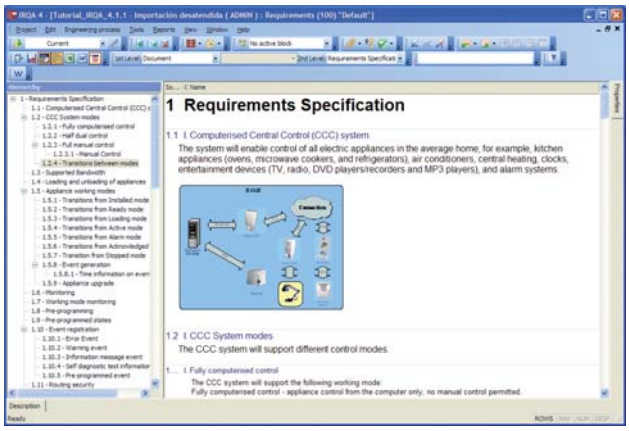
IRQA Integration with HP Quality Center

Why use a specific tool for the Requirements Definition and Management?

Requirements Definition and Management is a key activity in the development process with an enormous impact in other activities of the lifecycle.
Requirement tools take into account specifically all needs related to requirements:

How to involve all the stakeholders in the Requirements process?

- IRQA provides specific views according to the different technical and non-technical profiles accessing the tool (MS Word and MS Excel like views, etc.)
- IRQA provides RTF descriptions in order to capture complete information, including support to OLE objects (Visio diagrams, MS Project files, etc.)
- IRQA allows defining the user interface (buttons and tabs) according to the role.



How to perform an effective configuration management of my requirements?

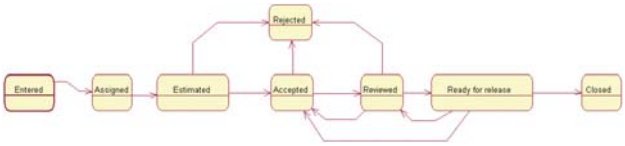
- IRQA allows the creation and detailed comparison of baselines and individual versions of elements.

How to perform an effective change management and change impact analysis?

- IRQA provides a traceability view to visualize all affected elements at all levels, including Requirements and Use Cases from HP Quality Center.
- IRQA allows to control all changes performed to Requirements and Use Cases through the suspect links management.
- IRQA allows to define relationships between requirements (Derives in, overlaps, contradicts, restricts) and between Requirements and Tests.

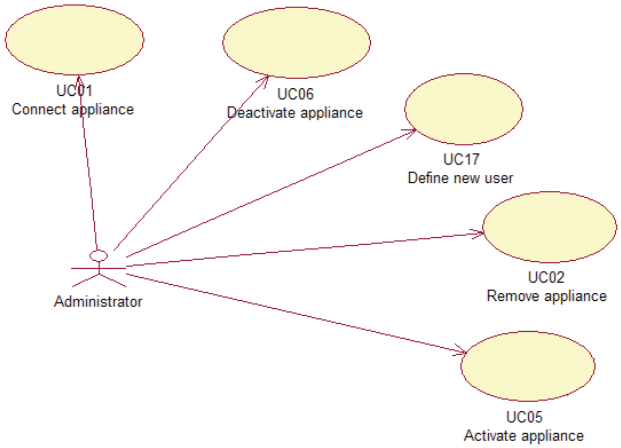
How to define an approval process for requirements or requests?

- IRQA provides graphical workflows where the users will be able to define the allowed transitions and what roles can perform each transition.



How to perform a requirements capture and specification?

- IRQA provides other types of elements that facilitate the requirements capture and definition beyond textual descriptions, like glossaries of terms, UML diagrams (use cases, sequence and state) and functional diagrams (DFDs and E-R diagrams).
- IRQA allows to define plugins for automatic tests generation from use cases.
- IRQA provides integrations with the best-in-class, leading design tools UML (Enterprise Architect, Rational Software Architect).

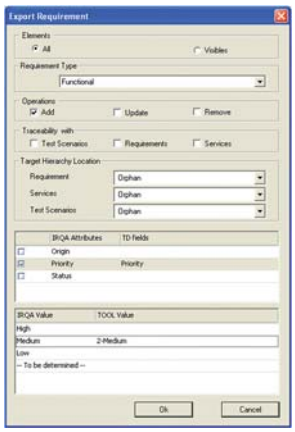


How to generate requirements reports?

- IRQA provides the ability to generate specifications, traceability and metrics reports in MS Word, MS Excel, PDF, HTML and XML among others, quickly and easily.

IRQA®

The integration



The IRQA - HP Quality Center platform allows to integrate the teams providing an optimal environment for each one of the profiles.

Lets NOT give up any of the department's needs.

This end-to-end integration bridges the communication gap between business and IT. It increase the visibility of the results of other teams e.g. status of the requirements, or validation requirements.

Allows to define and maintain requirements traceability and test coverage in an efficient way.

The integration supports HP Quality Center versions 9, 9.2 and 10, allowing the use of version management in the latter version.

	IRQA to HP Quality Center	HP Quality Center to IRQA
REQUIREMENTS		
Requirements synchronization (code, name, description, domains and attributes)	X (Domains represented by attributes)	
Requirements hierarchy	X	
Relationships between exported requirements	X	
Relationships between exported requirements and existing requirements in HP Quality Center	X	
Traceability motives and direction.	X (Motives represented by comments in the trace)	
Relationships between requirements and services existing in HP Quality Center	X	
Relationships between requirements and existing test scenarios in HP Quality Center	X	
SERVICES		
Services synchronization (code, name, description, domains and attributes)	X (Services represented in HP QC as Requirements, domains represented as attributes)	
Relationships with existing Requirements in HP Quality Center	X	
Relationships with existing test scenarios in HP Quality Center	X	
TEST SCENARIOS		
Test scenarios synchronization (code, name, description, attributes)	X	X
Test scenarios Domain synchronization	X (Domains represented by attributes)	X
Test Scenarios hierarchy	X	X
Steps (Actor, step description, direction and expected outcome)	X	X
Attributes	X	X (State and type of test)
Relationships with existing Requirements in HP Quality Center	X	X
Relationships with existing services in HP Quality Center	X	X

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