

From requirements to product quality

IRQA Integration with HP Quality Center

Challenges in the software development



Collaboration between the roles of the IT Department and business side departments, usually speaking different languages, collaborate and communicate, by providing an interface adapted to their specific needs, helping the information flow.



Compliance to the requirements, ensuring that all functional and non-functional requirements are met. IRQA provides users with validation matrices to check compliance to requirements, and that all requirements have passed their associated test cases, based on the results of HP Quality Center.



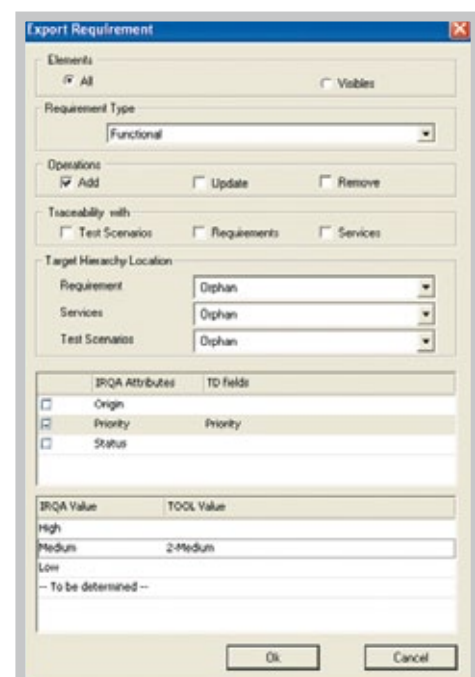
Reliable estimates based on complete change impact analysis. The information meta model in IRQA allows to represent Test Cases and their relationships coming from HP Quality Center inside IRQA, along with requirements and use cases, to be able to perform an end-to-end change impact analysis.



Metric-based process improvement. In order to make success a repeatable process, IRQA provides complete dashboard and metric reports based on the traceability and test status.

The integration - Key Features

- The integration supports HP Quality Center versions 9.2, 10 and 11
- Requirements and attribute synchronization from IRQA to HP Quality Center
- Services and attribute synchronization from IRQA to HP Quality Center
- Test scenarios bidirectional synchronization
- Traceability between Requirements, and between Requirements and Services synchronization from IRQA and HP Quality Center
- Traceability between Requirements and Services, and Test Scenarios bidirectional synchronization



The screenshot shows the 'Export Requirement' dialog box with the following settings:

- Elements:** All, Visible
- Requirement Type:** Functional
- Operations:** Add, Update, Remove
- Traceability with:** Test Scenarios, Requirements, Services
- Target Hierarchy Location:** Requirement: Diphon, Services: Diphon, Test Scenarios: Diphon
- IRQA Attributes / TD fields:**




<input type="checkbox"/> Origin	Priority
<input checked="" type="checkbox"/> Priority	Priority
<input type="checkbox"/> Status	
- IRQA Value / TOOL Value:**

High	
Medium	2-Medium
Low	
-- To be determined --	

IRQA Integration with HP Quality Center

	IRQA to HP Quality Center	HP Quality Center to IRQA
Requirements		
Requirements synchronization (code, name, description, domains and attributes)	✓ Domains represented by attributes	
Requirements hierarchy	✓	
Relationships between exported requirements	✓	
Relationships between exported requirements and existing requirements in HP Quality Center	✓	
Traceability motives and direction	✓ Motives represented by comments in the trace	
Relationships between requirements and services existing in HP Quality Center	✓	
Relationships between requirements and existing test scenarios in HP Quality Center	✓	
Services		
Services synchronization (code, name, description, domains and attributes)	✓ Services represented in HPQC as Requirements, domains represented as attributes	
Relationships with existing Requirements in HP Quality Center	✓	
Relationships with existing test scenarios in HP Quality Center	✓	
Test Scenarios		
Test scenarios synchronization (code, name, description, attributes)	✓	✓
Test scenarios Domain synchronization	✓ Domains represented by attributes	
Test Scenarios hierarchy	✓	✓
Steps (Actor, step description, direction and expected outcome)	✓	✓
Attributes	✓	✓
Relationships with existing Requirements in HP Quality Center	✓	✓
Relationships with existing services in HP Quality Center	✓	✓
Visualization and management of reused elements	✓	✓

Integration Key Benefits

-  Improve the quality of the application.
-  More exact and complete requirements, allowing the delivery of correct systems the first time and on budget.
-  Increase efficiency and efficacy of the teams.