From requirements to design

IRQA Integration with Sparx Enterprise Architect

Challenges in the software development

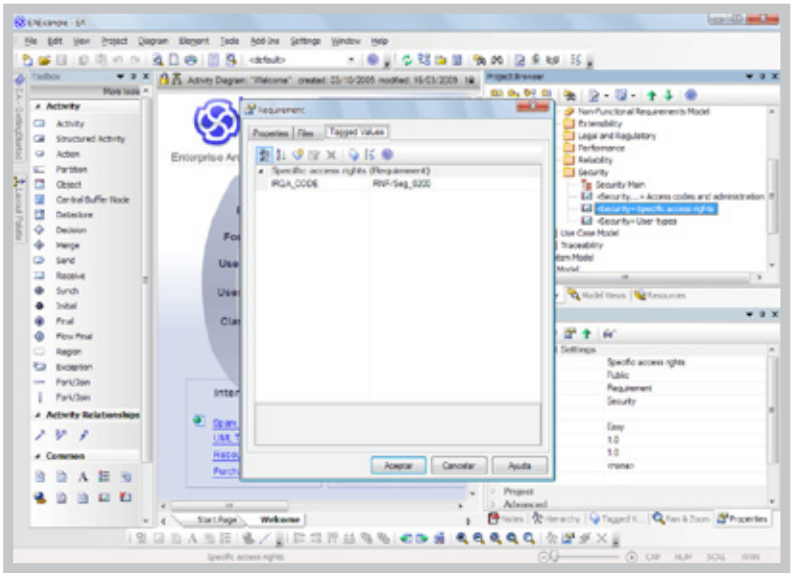
Need to track appliances in the different phases of the life cycle.
The integration between IRQA and Enterprise Architect allows to track requirements down to design, and from there to the source code. The integration helps users establish and maintain traceability throughout the requirements lifecycle.

Lack of clear and transparent traceability reports.
The information meta model in IRQA allows to represent Use Cases and their relationships coming from Enterprise Architect inside IRQA, along with requirements and test cases, to be able to perform an end-to-end change impact analysis. This end-to-end traceability allows users perform reliable change impact analysis.

The requirements are expressed only as text.
IRQA provides the capability to express requirements not only as text, but also as high level use cases, which can then be taken to Enterprise Architect as the basis for design.

The integration - Key Features

- The integration support Sparx Enterprise Architect 8.0
- Requirements bidirectional synchronization
- Services/Use Cases and Scenarios bidirectional synchronization
- Traceability between Requirements synchronization
- Traceability between Services/Use Cases synchronization
- Traceability Between Requirements and Services/Use Cases synchronization



IRQA Integration with Sparx Enterprise Architect

Visure
the requirements company

	IRQA to Sparx Enterprise Architect	Sparx Enterprise Architect to IRQA
Requirements		
Requirements synchronization (code, name, description, attributes)	✓	✓
Requirements hierarchy	✓	✓
Traceability between requirements	✓	✓
Traceability between requirements and existing requirements in destination tool	✓	✓
Traceability motives and direction	✓	✓
Traceability between requirements and existing use cases in destination tool	✓	✓
Services		
Services synchronization (code, name, description, attributes) and scenarios	✓ Services are represented as Use Case	✓ Use Cases are represented as Services
Scenarios synchronization (steps, step description, direction, forks)	✓	✓
Traceability between services	✓ Extend and Use	✓ Extend and Use
Traceability between services and existing requirements in destination tool	✓	✓
Traceability motives (extend, use) and direction	✓	✓
Traceability between services and existing use cases in destination tool	✓ Extend and Use	✓ Extend and Use

Integration Key Benefits

- Carry out impact analysis and change prioritization
- Communicate requirements throughout the life cycle
- Capture exact and complete requirements
- Specify and document requirements understandably