

Feature comparison

Feature	Description	IRQA	IRQA Web
Requirements Elicitation			
Manual and automatic capture from MS Excel, MS Word and Outlook	IRQA allows capturing requirements from different origins, customer documents, offline work or other offices.	√	
	The powerful importation mechanism identifies which requirements already exist in the database and which ones exist but with modifications in attributes and description allowing the selection of the elements that will be finally imported.		
	This importation mechanism along with the export mechanism allows interchanging requirements to other companies (suppliers, customers, etc.)		
Automatic capture of XRI (XML for Requirements Interchange)	Captures from XML documents allow the interchange of requirements on an organized format.	√	
	XRI is supported by others requirements tools so along with the export capabilities, XRI allows to establish and maintain a mechanism to exchange requirements with other companies that may use a different requirement tool		
Requirements description with RTF format and relationships with external files in local folders or in SCM tools	Apart from describing requirement with OLE objects, tables and graphics, requirements usually have attached external information.	√	√ 1
Requirements Hierarchy	To describe requirements clearly and deeply hierarchical relationships are highly recommended.	√	√
Automatic code configuration	It is possible to configure the element's (requirements, tests, use cases) codification at user or repository level	√	√
Requirements Analysis			
Problem Domain Model (PDM) building: It is possible to describe business concepts textually and graphically through class diagrams, E/R diagrams and sequence diagrams.	Before starting with the system's specification it is needed to understand the business and to be able to represent the Problem Domain Model based on a set of concepts and the relationships between them.	√	
Contextualize requirements with the Problem Domain Model	Once defined the PDM, the next step will be to extract and trace requirements from it.	√	

¹ Limited RTF editing capabilities including the ability to insert pictures, but no OLE support.



Behavior Model based on Use case diagrams, Scenarios and Sequence diagrams	Those diagrams will represent in a semiformal way the needs of the customers beyond a textual description	✓
Requirements Traceability	Traceability between different types of requirements including the motive (type) of the relationship and the direction.	✓ ✓
Organize the model based on different criteria	Once the first elements of the specification have been created it is possible to organize them based on different criteria allowing the analysts to identify duplicated or inconsistent elements	√
Solution specification		
Actors identification (External Entities)	IRQA comes with a specific support to the identification and specification of external elements that will interact with the system	√
Services identification (High level functionalities)	Once the user requirements have been identified, it is possible to represents the system high level functionalities that will be implemented to solve those requirements.	√
Automatic capture of services from MS Excel and MS Word	IRQA allows to import not just requirements but also use cases	√
Modeling of the relationships between the system and the external entities and textual and graphical description of the services. Use Case diagrams, DFDs, Sequence diagrams, state diagrams.	The functional analysis of the system can be performed into IRQA as a requirements related activity, before the design step	✓
Validation of the Specification		
Traceability between actors, services and requirements.	The traceability between specification's elements will allow us to perform easily a complete and deep change impact analysis	√
Specification Check	Once the traceability have been established the user can check easily with a simple click which requirements are not covered by functionalities or which functionalities haven't been asked for	√
Verification and acceptance tests		
Definition of a Fit-Criteria for requirements	Each requirement must be verifiable and the validation criteria available for everyone.	√ √
Definition of acceptance tests	The definition of acceptance tests is a key part for the requirements process success as an activity directly involved with requirements	√



IRQA allows to import not just requirements but also acceptance tests	√	
Acceptance tests allow the verification of requirements and the specification of high level functionalities. Additionally, this traceability will allow to perform a more reliable change impact analysis as it is possible to visualize the whole set of elements affected by the change.	√	
If you are using a test tool like HP Quality Center, IRQA allows exporting requirements, services and test scenarios, and import test scenarios Through this integration you can perform the change impact analysis into IRQA but manage the tests in a powerful test tool like HP QC.	√	
This matrix will allow you to not just to evaluate the impact of failed tests but also to check which requirements are not covered by tests and which tests are not traced to requirements.	✓	
When creating an attribute it is not just possible to define the scope of the attribute but also to define the type of the attribute (and additionally, create new types)	√	✓
It is possible to define attributes as mandatory for certain types of elements, for example, the priority, forcing the user to introduce a value for that attribute	√	<
Users can define and create filters based on any predefine field (creation/modification date, author, etc.), attributes, relationships, etc.	√	√ 2
IRQA hyperlinks allow users to send references to IRQA elements, in such a way that other users can open them to visualize the same information.	√ 3	√ 4
IRQA allows to switch with a simple click to different users views depending on the activity you are going to perform (list of elements, hierarchy o elements, list by attributes, relationships view, document view, etc.).	√	✓
It is possible to save the views and restore them later with a simple click. Additionally, views can be shared with other users allowing new users to have an specific interface for their role	✓	
	Acceptance tests allow the verification of requirements and the specification of high level functionalities. Additionally, this traceability will allow to perform a more reliable change impact analysis as it is possible to visualize the whole set of elements affected by the change. If you are using a test tool like HP Quality Center, IRQA allows exporting requirements, services and test scenarios, and import test scenarios. Through this integration you can perform the change impact analysis into IRQA but manage the tests in a powerful test tool like HP QC. This matrix will allow you to not just to evaluate the impact of failed tests but also to check which requirements are not covered by tests and which tests are not traced to requirements. When creating an attribute it is not just possible to define the scope of the attribute but also to define the type of the attribute (and additionally, create new types) It is possible to define attributes as mandatory for certain types of elements, for example, the priority, forcing the user to introduce a value for that attribute Users can define and create filters based on any predefine field (creation/modification date, author, etc.), attributes, relationships, etc. IRQA hyperlinks allow users to send references to IRQA elements, in such a way that other users can open them to visualize the same information. IRQA allows to switch with a simple click to different users views depending on the activity you are going to perform (list of elements, hierarchy o elements, list by attributes, relationships view, document view, etc.). It is possible to save the views and restore them later with a simple click. Additionally, views can be shared with other users allowing new users to have an specific	Acceptance tests allow the verification of requirements and the specification of high level functionalities. Additionally, this traceability will allow to perform a more reliable change impact analysis as it is possible to visualize the whole set of elements affected by the change. If you are using a test tool like HP Quality Center, IRQA allows exporting requirements, services and test scenarios, and import test scenarios. Through this integration you can perform the change impact analysis into IRQA but manage the tests in a powerful test tool like HP QC. This matrix will allow you to not just to evaluate the impact of failed tests but also to check which requirements are not covered by tests and which tests are not traced to requirements. When creating an attribute it is not just possible to define the scope of the attribute but also to define the type of the attribute (and additionally, create new types) It is possible to define attributes as mandatory for certain types of elements, for example, the priority, forcing the user to introduce a value for that attribute Users can define and create filters based on any predefine field (creation/modification date, author, etc.), attributes, relationships, etc. IRQA hyperlinks allow users to send references to IRQA elements, in such a way that other users can open them to visualize the same information. IRQA allows to switch with a simple click to different users views depending on the activity you are going to perform (list of elements, hierarchy o elements, list by attributes, relationships view, document view, etc.). It is possible to save the views and restore them later with a simple click. Additionally, views can be shared with other users allowing new users to have an specific

 $^{^2}$ IRQA Web Users may only create user attribute and text filters or make use of filters created with the full IRQA Client user.

³ Hyperlinks created in IRQA require an IRQA installation in order to open the hyperlink.

⁴ Hyperlinks created in IRQA Web are http, so they only require a web access.



User interface by role	Project administrators can select the user interface the different roles will have access to, including: - Elements (Requirements, services, test scenarios, concepts, etc.). - Tabs (Details, Versions, Discussion, relationshilps, etc.).	√	
User-defined requirement process and traceability rules by means of block diagrams	Block diagrams graphically represents the elements and their relationships in the process, making it easier to understand and easier to follow for all users (especially those non-technical). This diagram allows establishing a collaborative environment for all users encouraging them to follow the process and giving helps for that purpose (like restricting the available relationships based on the diagram).	✓	
Workflows	Enumerated attributes may be assigned to workflows making it possible to define the available transitions and which users groups may perform those transitions. Additionally, IRQA allows to attach VBScripts to the transitions to execute actions like: • Send emails • Inherit attribute based on the requirements status • Accept or reject a requirement based on the associated tests status • etc.	√	√ 5
Version management	The configuration management of elements allows to establish access mechanism for every single requirement. Each requirement will have a history with all the available versions that the users may check and compare.	√	√
Requirements traceability			
Traceability Matrix	The IRQA traceability matrix allows representing in rows and columns any type of element allowing to apply filter for both.	√	V
	This matrix represents not just the relationships between elements but also the suspect relationships.		
Relationships between requirements	These relationships allow defining the relationships' type, direction, if the relationship is suspect and the suspect's reason that can be introduced automatically or manually.	✓	√
Relationships between user requirements and services	These relationships can be also suspect, so the change impact analysis will also cover the use cases.	√	√ 6

 $^{^{5}}$ Workflow states can be modified from IRQA Web. They can only be managed through the full IRQA Client.

⁶ IRQA Web displays the related services of a requirement, but these relationships may not be modified in IRQA Web.



Relationships between requirements and business concepts users in the elicitation stage, gathering requirements concepts implemented. Relationships between requirements and acceptance fests and receptions and requirements which the system will be implemented. This relationship I key and it is fully supported into IRQA for checking the test coverage, change impact analysis and requirements verification. Indirect traceability matrix This special traceability matrix allows representing elements which are not directly related but indirectly through their relationships with intermediate elements. Using this matrix the user may check, for example, how a falled test is affecting a customer requests Suspects relationships Suspects relationships and user may check, for example, how a falled test is affecting a customer requests through the user requirements which are the intermediate element between tests and customer requests Suspects relationships can be established automatically when an element is modified; in that case the suspect reason is fulfilled automatically. Additionally, analyst can set a relationship manually to suspect, in that case the suspect reason is fulfilled automatically and the reason is fulfilled. Support to suspect relationships allow us to simulate a change so we can check the impact of a change before performing it. Project management Recass Partitions and User Management Access Partitions and User Management in the container of the suspect reason is formed to suspect relationships are used to block the element scontained in the container. The access over elements is performed at element level, which means that a user only need to block the element over hey/he is working allowing other users to access to other elements by a working allowing other users to access to other elements of the container or the specification. It is even possible to assign different rights over an element and its attributes, for example, a user may have write rights over a requirement but only read rights o				
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Navigate through the specification using the block and domain diagrams	IRQA allows navigating and activating each of the blocks and domains so users may work only with the corresponding elements contained in those blocks or domains.	√	7
Multiple specifications in domain and blocks	Users can define as many diagrams as points of view are needed to define the system specification. For example, besides representing the different types or subtypes of elements, block diagrams may be used to represents the different components of the system, and the domain diagrams could represent the company department beside the subsystems.	✓	
Report generation			
Predefined reports	IRQA comes with 25 predefined reports available for all users, including lists of elements, traceability reports, etc.	√	
User defined reports	The report manager allows creating new reports including metrics, statistics, graphs, and any other type of analysis. These reports may use templates to fit the report to any type of corporate standard.	√	
Several formats supported: HTML, PDF, DOC, XML, XLS, CSV, etc.	The reports may be, once generated, exported to several external formats.	√	
Corporate reports	All the reports created by the users can be placed in a specific folder making then available for all other users adding them automatically to the list of corporative reports in the report menu into IRQA	√	
Automatic generation of reports	Besides manual reports execution it is possible too the report generation to a batch process. This can be used to automatically generate reports periodically with specific formats and leave them in a specific location/folder.	✓	
	Some users may check these reports without connecting to the tool.		
Reusability support			
Components sharing	From the sets of reusable components defined by IRQA users, users can chose to reuse them in share mode. This mode allows visualizing the component's elements	√	√ 8
	in the target project in read only mode, but with the possibility of assign attributes and modify those attributes to the reusable elements		
	When a new version of the reusable component is available, the project reusing that component will receive a notification to evaluate the new version and decide when (or if) updating.		

⁷ IRQA Web allows activating blocks and domains to filter the requirements specification

IRQA vs. IRQA Web – Feature comparison

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⁸ IRQA Web displays reused requirements, but the management of components is restricted to full IRQA Client



Components Copy + Link			
	This mode (copy link) allows visualizing and modifying the components.	√	V 9
	When a new version of the reusable component is available, the project reusing that component will receive a notification to evaluate the new version and decide when (or if) updating		
Components Copy	This mode reuse the elements creating a copy of the element in write mode, losing all reference to the original element.	√	V 10
Updating reusable components	Once received the notification of a new version of the component, users can check the changes in the new component (new elements, changed elements, etc.) before performing the updating so they can take the decision with all the needed information	✓	
Partitionable components	When users publish new components for other projects they can define the component as partitionable. For partitionable components users in target project can decide if take all the elements of the component or only a subset of them. For a non-partionable component all the elements must be taken when reusing it. This allows having a better control when reusing elements.	√	V 11
Configuration Management			
Generation of total or partial Baselines	IRQA fully support baselines so Project administrator can take snapshot of all the element (total baseline) or set of elements (partial baseline) of the Project in a given moment.	√	
Baseline comparison	Once created, users can compare two different	√	
	baselines to check deleted elements, new elements, and modified elements in a very intuitive and visible way.		
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⁹ IRQA Web displays reused requirements, but the management of components is restricted to full IRQA Client

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Integrations with Configuration Management tool SCC compliant: Microsoft Visual SourceSafe, Merant PVCS, Seapine SurroundSCM, Rational ClearCase, etc.	This integration allows attaching files under SCM control to specification's elements	√	
Integration Platform	Any user can build new integrations with proprietary or commercial tools easily with this platform support	√	
Plugin support	Through this new functionality users can create their own plug-ins and put them into IRQA, allowing them to create new toolbars, buttons, new columns, calculated attributes, integration with third party tools, etc.	√	
Integration with other requirements tool through XRI import/export	This interchange mechanism allows not just exchange information with other RM tools but also migrate old data from old IRQA repositories	√	
Integration with IBM Rational Software Architect and IBM Rational Software Modeller	Requirements from IRQA become available in a new perspective created for eclipse that allows you to trace them with RSA/RSM elements. Additionally, elements from RSM may be exported to IRQA to perform a complete change impact analysis	√	
Integration with Sparx Enterprise Architect	Requirements from IRQA are synchronized with EA requirements so they can be the starting point for the design step	√	
Automatic Capture from MS Office (MS Word, MS Excel, MS Outlook)	IRQA integrates with several MS Office tools (Excel, Word, Outlook, Project) to perform automatic captures from several origins	√	
Direct exportation to MS Excel and MS Word	Available from the IRQA interface, this functionality allows to export sets of requirements in a WYSIWYG way	√	√
Integration with HP Quality Center	If you are using a test tool like HP Quality Center, IRQA allows exporting requirements, services and test scenarios, and import test scenarios Through this integration you can perform the change impact analysis into IRQA but manage the tests in a powerful test tool like HP QC.	✓	
Integration with Atlassian JIRA	The integration between IRQA and JIRA supports the exchange of requirements and issues bidirectionally. Issues defined in JIRA can be imported into IRQA as requirements to facilitate the visibility of these elements in IRQA and trace them to the rest of the elements. Additionally, requirements can be also be exported to JIRA. These capabilities allow to have the visibility of the issues in JIRA inside IRQA, update the attributes and create new issues directly in IRQA and take all this information back to JIRA, maintaining a direct communication between the users of both tools.	√	