

# Requirements Traceability

## Reqtify 2025x Product Overview



**3DEXPERIENCE®**

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# Introduction

Reqtify is an interactive requirement traceability and impact analysis tool which can trace requirements from system, program and project levels to the entire levels of your software or hardware component development lifecycle. Reqtfy can interface to requirement-related information in a wide variety of data formats, document types and file formats. These can include corporate requirement repositories such as IBM-Rational DOORS™ and PTC Integrity, office type documents such as Microsoft Word, Excel, Adobe FrameMaker and PDF, SysML/UML Design tools such as Artisan Studio, Enterprise Architect, CAD tools such as Simulink, Code files such as C, Ada, C++, Java or VHDL as well as information in standard text format, Html, XML or ReqIF.

Reqtify was not developed to compete with your existing tools. The opposite is true: Reqtfy was designed to help overcome the connectivity limitations of today's heterogeneous tool environments. So very clearly Reqtfy is not in competition with any of the standard applications. With interfaces to more than 100 applications and data sources Reqtfy extends their capabilities by automatically adding traceability to your projects.

Reqtify was developed in 2001 for Airbus as the initial customer to be a non-intrusive tool. 3 important guide lines existed to ensure this:

## **No changes to the existing tool environments**

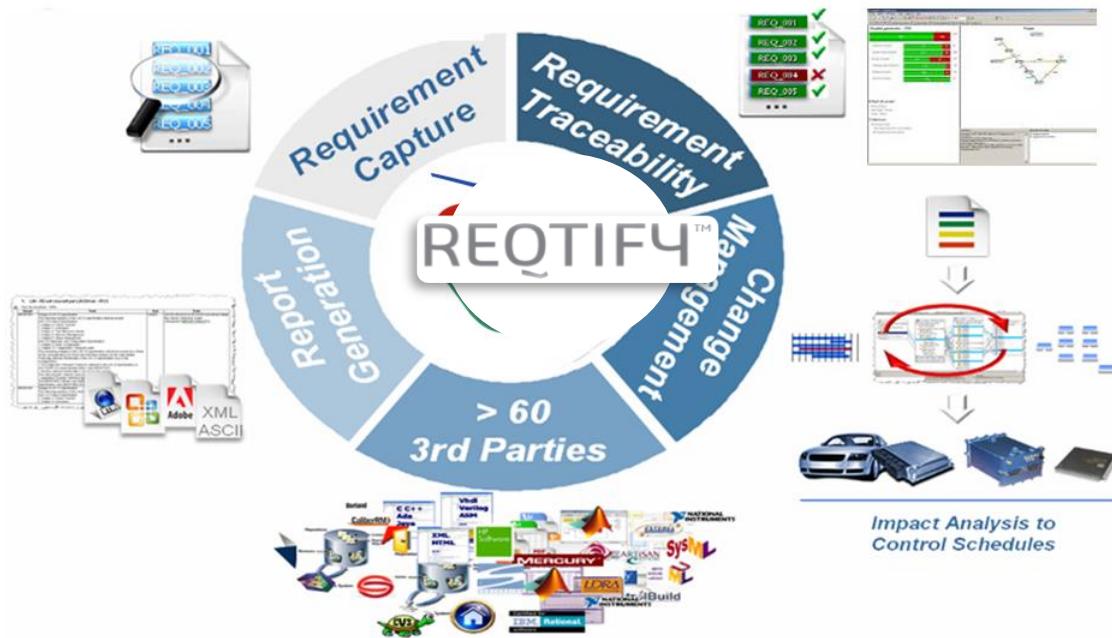
As Reqtfy only connects to your current tools, it does not replace them. The number of interfaces (100+ today) is still growing. New interfaces are created every day. With its bidirectional interfaces Reqtfy reads and writes information from and to the different tools. Users continue to work with their legacy tool environment.

## **No changes to existing processes**

Users continue to work with their familiar environment. They even continue to use all tools the same way as before. Reqtfy only gathers the information after they have been created in the original tool. The current processes remain the same.

## **Minimal training overhead for team members**

We already explained that Reqtfy is a non-intrusive tool meaning environment and processes don't change. The tool learning curve is very light and team members typically do not need more than 1 or 2 days.



**Fig 1- Reqtify Overview**

#### Main Features (RQS)

Reqtify is not trying to replace any of your current tools nor does Reqtify expects you to change your procedures and processes. Reqtify connects your tools. To be more precise: It connects to more than 100 applications and data sources. This way Reqtify is creating the integrated environment with full reuse of all your already existing requirements data that you have been expecting all along. Tool environments that have grown over the years and are used in production are in best case loosely connected. Many times several components are not at all connected. There are two options to bring your data together. The first option is to replace all your tools and processes and purchase all new tools that are connected. In a real world this is not really applicable. The second option is to not replace your tools, but to introduce one new tool that is capable to connect to all your tools, bring the data together and create the desired traceability this way. This is exactly what Reqtify does.

Reqtify tightly connects and integrates all of your data and creates new ways to effectively use it. Many Reqtify users call Reqtify the "Glue-Tool". It glues data together that should be connected.

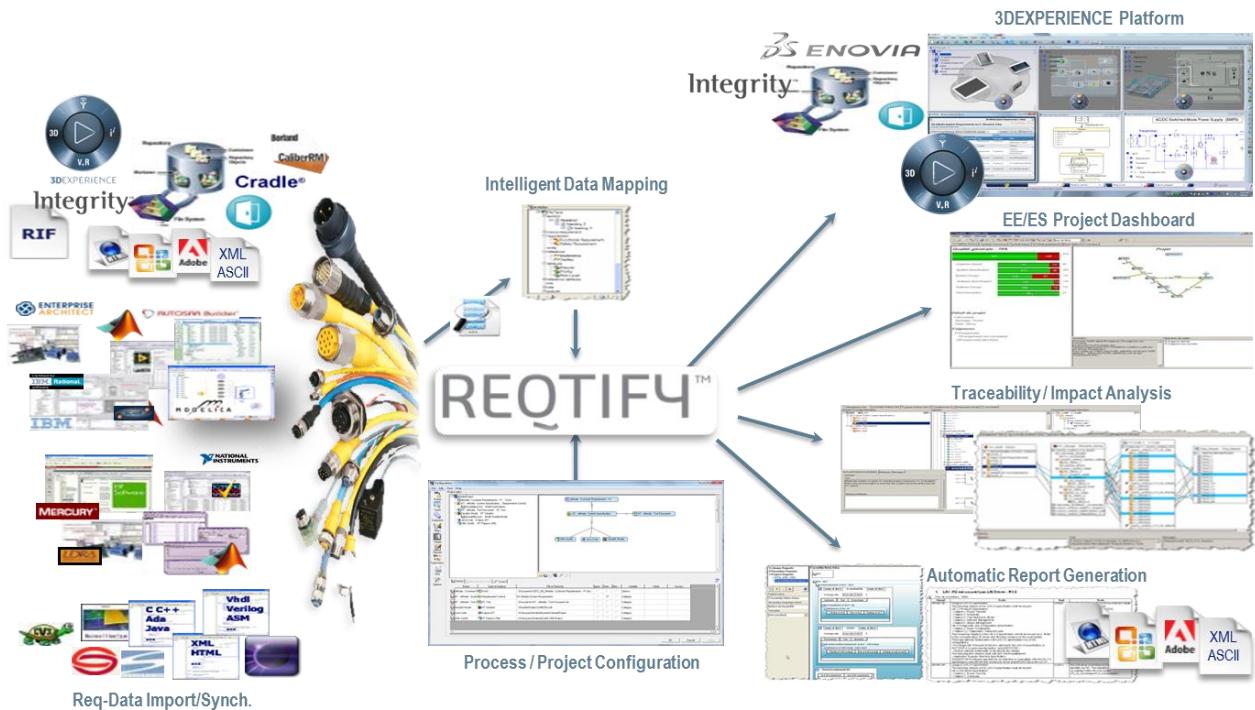
Typically tool environments in use today grew over the years and can consist of a large number of specialized tools. Applications like DOORS, Rhapsody, Enterprise Architect, Artisan Studio, Magic Draw, Simulink, LabView, Scade, FrameMaker, Word, Excel, ReqIF - just to name a few. Each of them supporting an important part of the development cycle. You can find the full list of interfaces in the "Interface Lists and Packs" sections in this document.

Knowing that all these tools have been purchased at different times, from different manufacturers and for different purposes it is not surprising that these tools don't talk to each other. In best case they are loosely connected. This doesn't mean that your tools are not good. They have been chosen for specific development tasks and mostly deliver perfectly for the assigned task.

Looking at product development all what is being done is done only for one reason: to create a specific behavior for the product. This desired behavior and functionality is defined in the requirements. Almost all tools that are involved in this process carry important information about the requirements they relate to. So looking at the complete process from a higher perspective it is easy to see that the requirements are the center of product development. It is therefore important to connect all requirement information to help build reliable products quickly. And not to forget, all features must be implemented as well – nothing shall be forgotten. To achieve this traceability is a must.

## How does it work

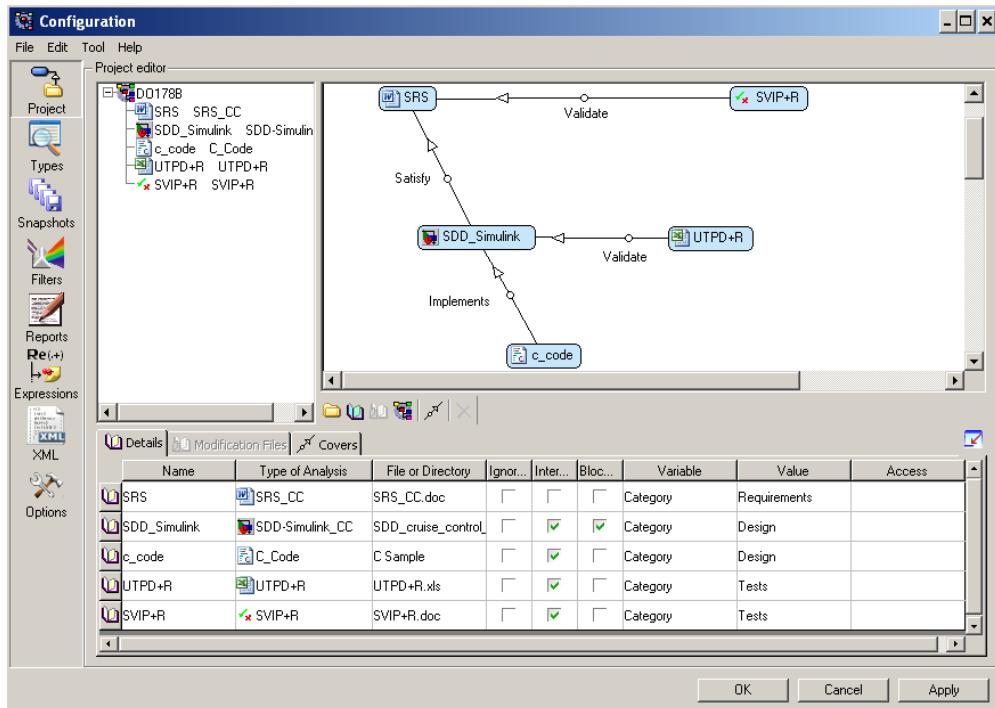
The Picture below shows the workflow of Reqtify. In a first step the information from all the involved tools will be converted into XML or ASCII and copied into an intermediate file. From there the converted data will be copied into the repository of Reqtify project. The imported information will be used for reference only and will not be changed by Reqtify. Your original tool will remain to be the master source for the information.



**Fig 2- Reqtify Solution Architecture**

Then, data will be analyzed according to your project configuration. The project configuration is the place where you are specifying document location/version and the links categories between them. In the configuration window (Figure just below) you select one by one the desired type and file of your data. In the next step the selected files are connected by simply drawing arrows between data sources. The direction of the arrow symbolizes the coverage direction for our traceability purpose. In the example in figure 2 we are connecting a Word document containing the main requirements. This document is covered by Simulink Software Detailed Design and by a Word document which is the Software Validation and Integration Plan + Results. At the next level the Simulink model is implemented by the C code itself and by the Unit Testing Plan + Results all in an Excel

document. After drawing the arrows you apply by pressing the OK button and Reqtify will automatically retrieve all information to create the traceability across all your documents.



**Fig 3- Project Configuration**

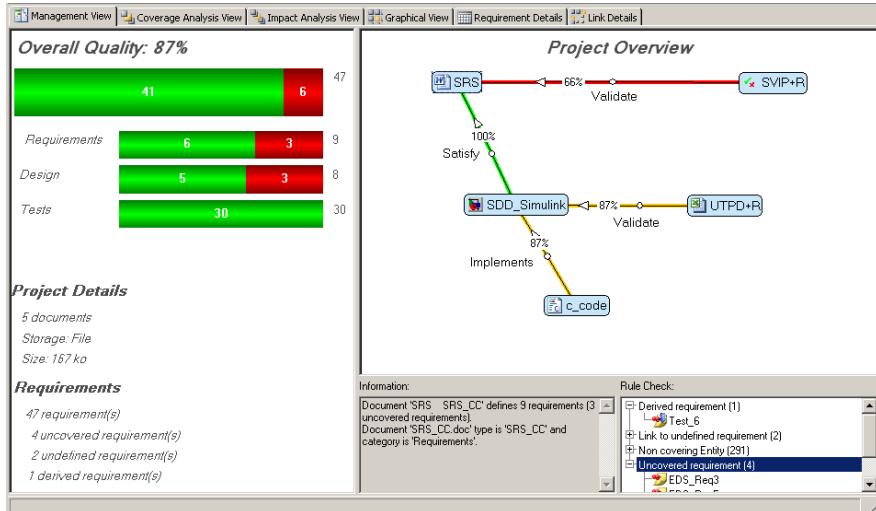
After all data files and data sources have been imported into the newly created project, Reqtify can now create many different analyses. The results can be used either within Reqtify Views or can be exported as reports. The report generator is a powerful tool and lets you create new reports or customize existing reports.

## Analysis Views Descriptions



Reqtify offers different ways to views and features. Let's have an overview to all of them.

## Management View

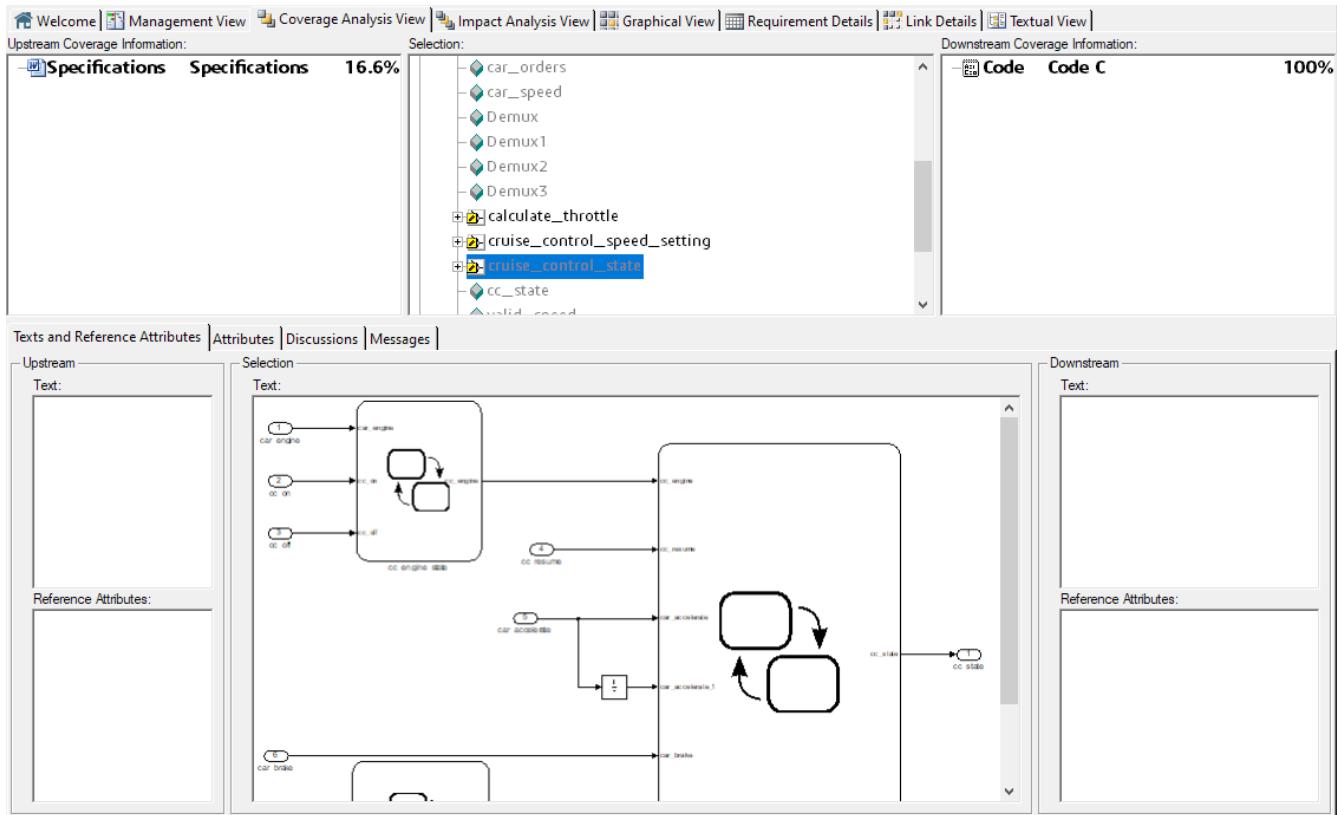


**Fig 4- Management View**

The Management View gives a lot of Project level information. It gives in fact an instant view of your project status in regards of the requirement to cover.

It gives you coverage metrics between documents, global project quality metrics, Pending Errors & Warning on your project and a lot of other information on requirements and global project achievement.

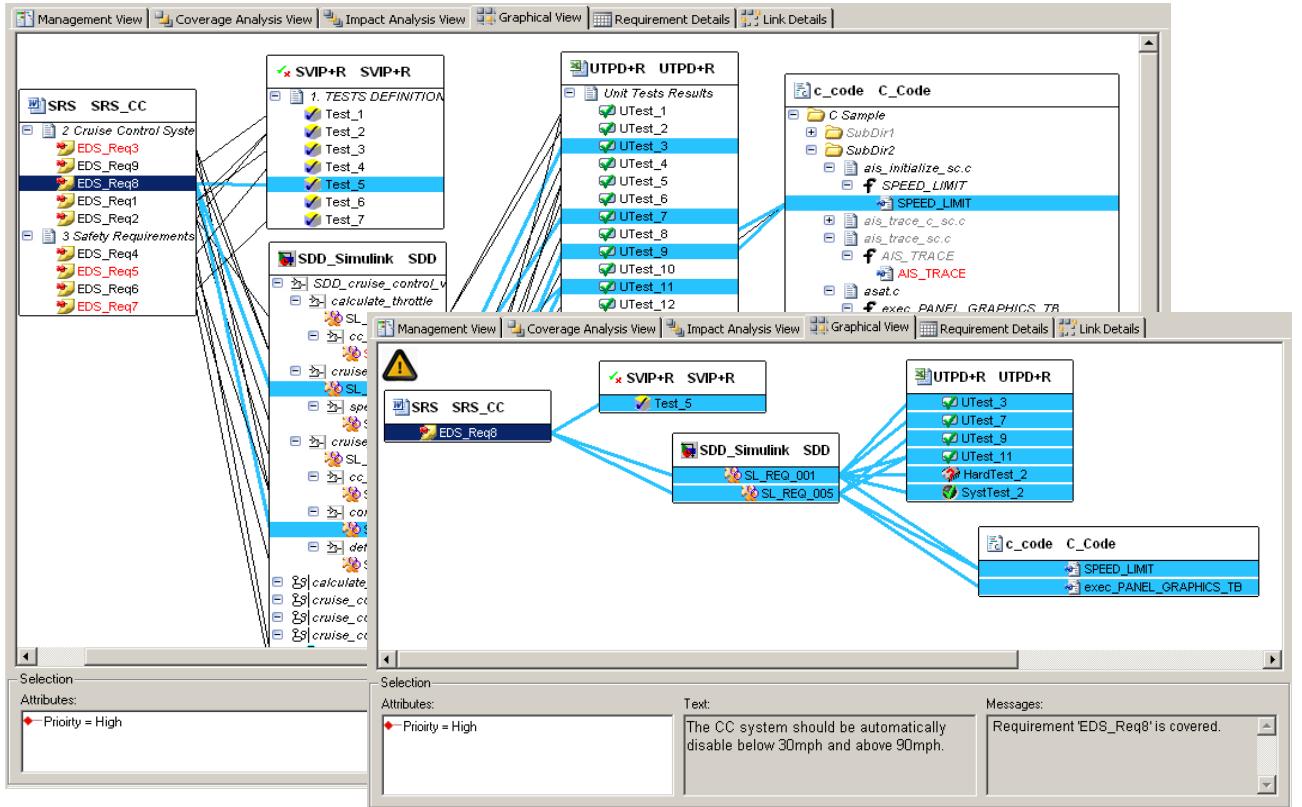
## Coverage Analysis View



### **Fig 5- Coverage Analysis View**

The Coverage Analysis View gives you information on what is already covered and what is still uncovered at each level of your project. It offers you a flexible navigation from one project artifact to another and sees the dependencies at the higher level and the lower one. The view indicates at the document level, all the coverage metrics between each document.

# Impact Analysis and Graphical Views



**Fig 6- Impact Analysis View**

The Impact analysis & Graphical Views are offering the same information with two different representations. The Coverage Analysis View gives you information on what is already covered and what is still uncovered at each level of your project. It offers you a flexible navigation from one project artifact to another.

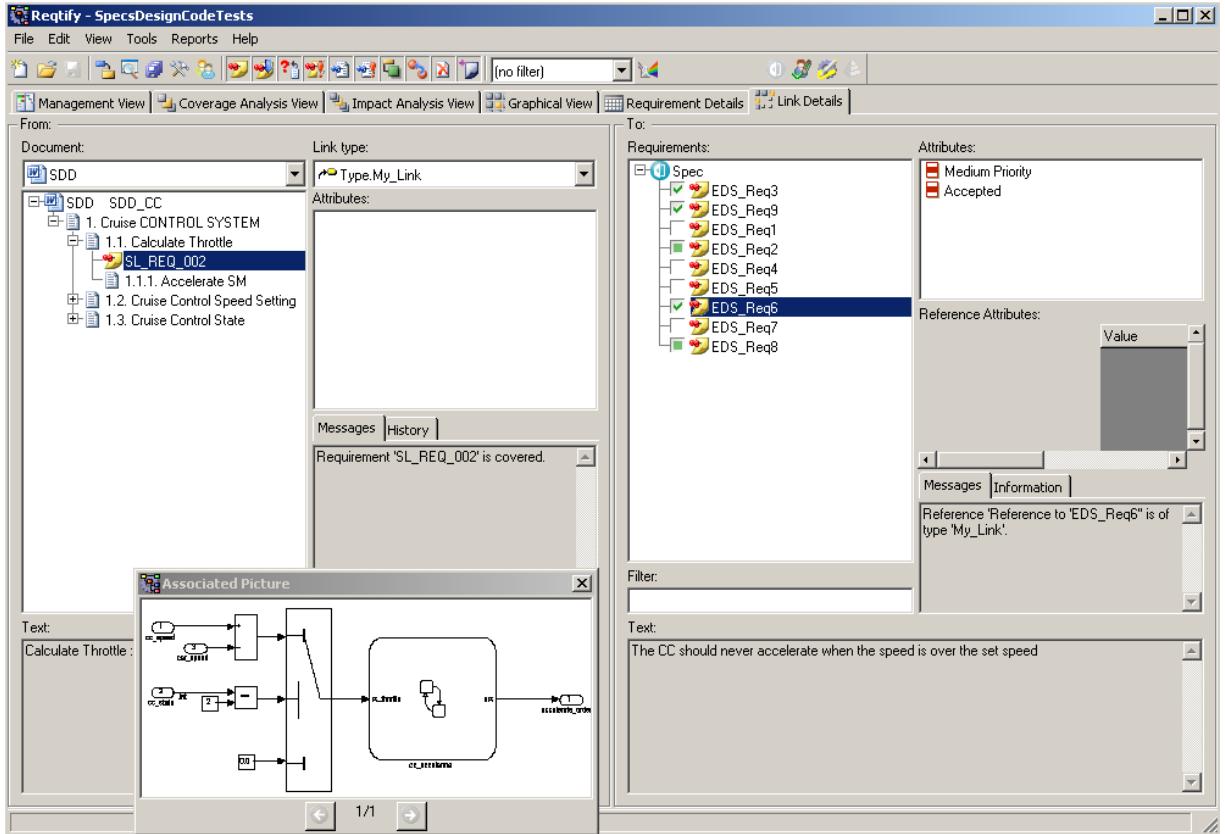
# Requirement Details View

Requirement Details View										
Requirement ID	Requirement Title	Priority	Date	Company	Name	Email	Link With the Scenario(s) n°	Link With the Pilot Application(s)	Verification	Interoperability - Modeling artifact
Rq_SP1_A_D_001	V_M1_001	● 3	03/04/2009	A-D	Andreas Leniva	n/a			✓	
Rq_SP1_A_D_09	V_M1_001	● 3	08/05/2009	A-D	Dietmar Saniva	n/a				
Rq_SP1_Astrum_Satellites_010	V_M1_001	● 1	30/04/2009	Astrium Satellites	Ana-Elena Rugina	ana-elena.r1.1,2,21,22	1,2			
Rq_SP1_Astrum_Satellites_040	V_M1_001	● 1	30/04/2009	Astrium Satellites	Ana-Elena Rugina	ana-elena.r1.1,2,21,22	1,2			x
Rq_SP1_Astrum_Satellites_1250	V_M1_001	● 1	30/04/2009	Astrium Satellites	Ana-Elena Rugina	ana-elena.r0	0			x
RSP6_10_30.0	V_M1_001	4	21st, April 2009	0XON, A-F	Daniel Kroening	Daniel.KroenPA_SP610.3.0.0_3.PA_SP6_3_1.4.PA_SP610_3.0.0.PA_SP6_3_1.0.0		✓	✗	
RSP6_10_31.0	V_M1_001	5	21st, April 2009	0XON, A-F	Daniel Kroening	Daniel.KroenPA_SP610.3.0.0_3.PA_SP6_3_1.4.PA_SP610_3.0.0.PA_SP6_3_1.0.0		✓	✗	
RSP6_7.0	V_M1_001	● 2	28th, April 2009	A-F	Guillaume Bouchez	guillaume.bPA_SP6_3_1.5.PA_SP6_3_1.4.0.PA_SP6_3_1.0.0		✓	✗	
RED_SP6_EADS_DE_002	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_024	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_037	V_M1_001	● 2	28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_038	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_039	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
Rq_SP1_HAI_003	V_M1_001	● 1	26/03/2009	HAI		Pingouin.FPA_SP6_HAI_01_001.PA_SP6_HAI_01		✓		
Rq_SP1_HAI_007	V_M1_001	● 2	26/03/2009	HAI		Pingouin.FPA_SP6_HAI_01_002.PA_SP6_HAI_01		✓		
Rq_SP1_HAI_010	V_M1_001	● 3	26/03/2009	HAI		Pingouin.FPA_SP6_HAI_01_002.PA_SP6_HAI_01			x	
Rq_SP1_MB_044	V_M1_001	● 1	04/24/2009	MB	Gabriel SCOLAN Aurélie SOULARUE	gabriel.scolPA_SP6_55.Sc_002.PA_SP6_55.PA_SP6_MB_01		✓	✗	
Rq_SP1_MB_057	V_M1_001	● 1	04/27/2009	MB	Gabriel SCOLAN Aurélie SOULARUE	gabriel.scolPA_SP6_55.Sc_002.PA_SP6_55.PA_SP6_MB_01		✓	✗	
Rq_SP1_MB_080	V_M1_001	● 1	04/28/2009	MB	Gabriel SCOLAN Aurélie SOULARUE	gabriel.scolPA_SP6_55.Sc_002.PA_SP6_55.PA_SP6_MB_01		✓	✗	
RED_SP6_THALES_032	V_M1_001	● 1	07/04/2009	THAV	Loc Pett					
Rq_SP1_Astrum_Satellites_200	V_M1_001	● 1	30/04/2009	Astrium Satellites	Ana-Elena Rugina	ana-elena.r1.1,2,21	1,2			
RSP6_2_4.0	V_M1_001	● 2	28th, April 2009	A-F	Guillaume Bouchez	guillaume.bPA_SP6_3_1.5.PA_SP6_3_1.2.0.PA_SP6_3_1.0.0		✓		
RED_SP6_EADS_DE_012	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_013	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_017	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
RED_SP6_EADS_DE_018	V_M1_001		28/04/2009	EADS_DE	Andreas Kramer	andreas.a.i	1			
Rq_SP1_MB_048	V_M1_001	● 1	04/24/2009	MB	Gabriel SCOLAN Aurélie SOULARUE	gabriel.scolPA_SP6_55.Sc_001.PA_SP6_55.PA_SP6_MB_01		✓	x	
RED_SP6_THALES_010	V_M1_001		07/04/2009	X	THAV	Loc Pett				
RED_SP6_THALES_011	V_M1_001		07/04/2009	X	THAV	Loc Pett				
RED_SP6_THALES_013	V_M1_001		07/04/2009	X	THAV	Loc Pett				
RED_SP6_THALES_022	V_M1_001		07/04/2009	X	THAV	Vincent Iba				
RED_SP6_THALES_031	V_M1_001		07/04/2009	X	TCF	Emmanuel				
RED_SP6_THALES_034	V_M1_001		07/04/2009	X	TCF	Emmanuel				
RED_SP6_THALES_023	V_M1_001		07/04/2009	X	TCF	Emmanuel				
RED_SP6_THALES_024	V_M1_001		07/04/2009	X	TCF	Emmanuel				
RED_SP6_THALES_025	V_M1_001		07/04/2009	X	TCF	Emmanuel				
RED_SP6_THALES_026	V_M1_001		07/04/2009	X	TCF	Emmanuel				
RED_SP6_THALES_027	V_M1_001		07/04/2009	X	TCF	Emmanuel				
Selection										
Text: <input type="text" value="Added text"/> Requirement Rq_SP1_A_D_001 can't be covered.										
CESAR shall support the integration of new development tools.										

**Fig 7- Requirement Details View**

Requirement Details View offers a table view as a spreadsheet containing each requirement's status, its text description and attributes values. This View can be filtered and sorted accordingly to user choice and customization.

## Link Details View

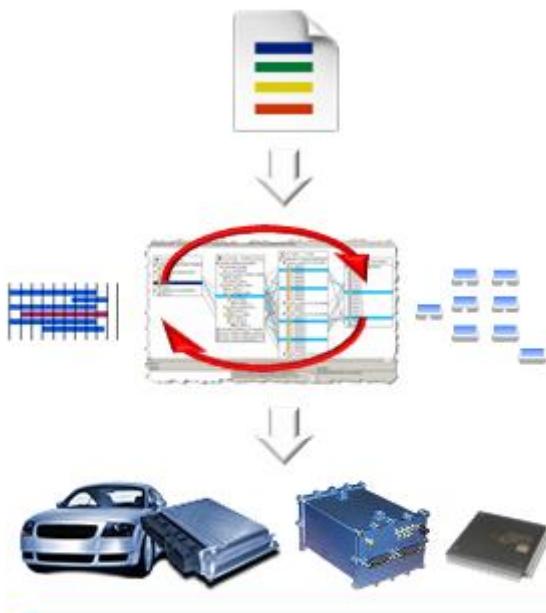


**Fig 8 – Link Details View**

As soon as we are talking about traceability, links management is a very important task to deal with. Reqtify offers a Link Details view where users can create, edit and analyze traceability and dependencies between project artifacts. Reqtify users can choose if they would like to consider existing traceability data as suspicious Links as soon as changes occur on covered requirements. Link Details view offers an instant view of all the links that still need to be validated by an authorized person.

## History, Baselines and Snapshots

It is possible to maintain a history of different project stages. These are called Snapshots in Reqtify.



### *Impact Analysis to Control Schedules*

Snapshots are read only versions of the project and are created on demand manually or automatically based on a schedule. They are mandatory to monitor project progress and help to answer questions like: What requirements have changed? What are the impacts on my C code or tests? How is the coverage of my requirements progressing?

We recommend storing each Reqtify snapshot in your favorite configuration management tool for each project baseline. As a result, you can easily perform a comparison from version N to version M of the project and you can generate Requirement Traceability Matrix for each Project Milestone or product delivery.

The screenshot shows the Reqtify Snapshots Comparison View. At the top, it lists 'Snapshots:' with 'Version 1 (2022-10-10 12:04:41)' and 'Version 2 (2022-10-10 12:05:21)'. Below this is a 'Differences:' section. The differences are categorized as follows:

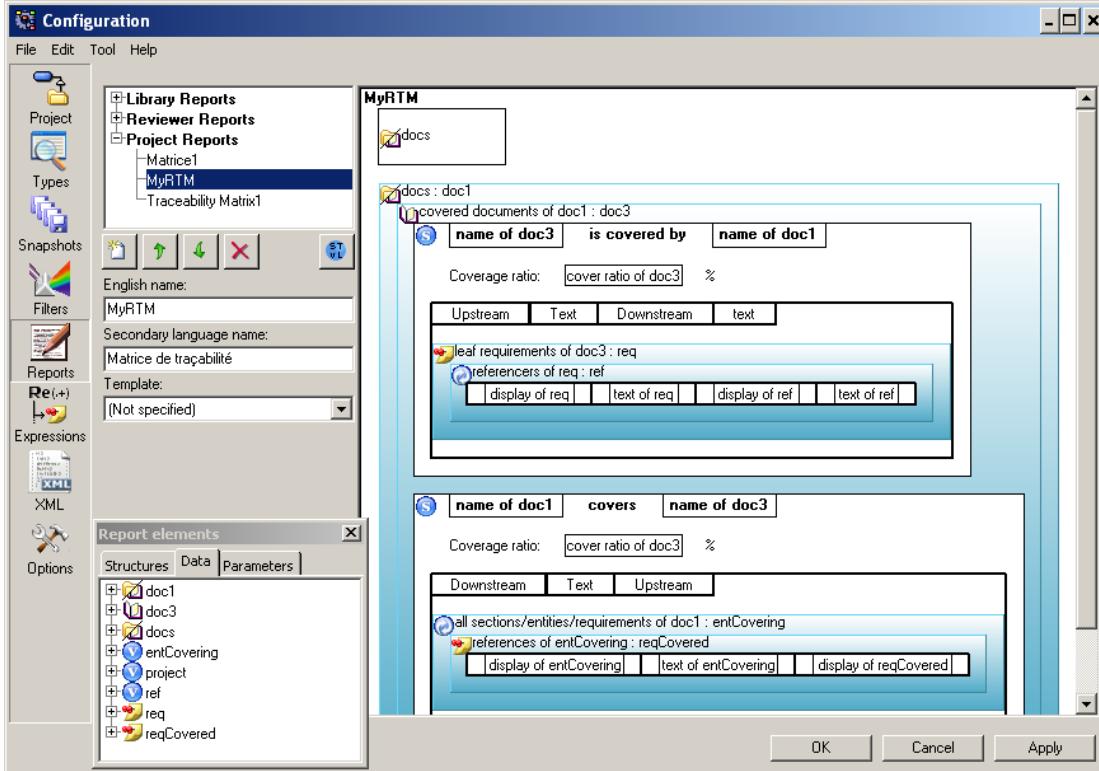
- 1 new requirement(s):
  - REQ004
- 1 deleted requirement(s):
  - REQ003
- 2 modified requirement(s):
  - REQ001
  - REQ002

Below the differences, there is a 'Compared text:' section containing the text: 'New text:Text of REQ002'.

**Fig 9 – Snapshots Comparison View**

# Automatic Report Generation

All project information gathered by Reqify can be used for reports. A number of standard reports are shipped with the product – these are things like Traceability Matrix, Analysis Results, Project Description and some more. The report generator is a powerful tool that lets you customize existing reports or create new ones from scratch. Reports are created using the editor shown in the picture below and can have different formats such as Word, Excel, HTML, PDF, FrameMaker, XML.



**Fig10 – Report Editor View**

Once Reports are created they can be executed manually or automatically. So it is possible to create a set of reports fully automatic on a regular schedule and send them to a list of receivers via email.

There is also a possibility of post-edition. During report generation, user is able to update some textual fields without modifying the report model itself.

# Interfaces List & Packs

## Reqtify Core Interfaces (RQS)

A set of interfaces are contained in the standard Reqtify Core Product. Including Requirement Management tools interfaces, Configuration Management tools interfaces, Change and bug management tools and interfaces to a number of document editors including Word, PDF, Code and text file formats.

Please see just below the exhaustive list of interfaces included in Reqtify Core:

<b>Document Editors</b>	
Microsoft	Word
Microsoft	Excel
Microsoft	Access
Microsoft	Outlook
Microsoft	PowerPoint
Microsoft	Visio
Adobe	Acrobat
Adobe	FrameMaker
Google	Docs
Google	Sheets
Google	Slides
Interleaf	Interleaf
OpenOffice	OpenOffice Writer
W3C	HTML
AsciiDoc	AsciiDoc

<b>Requirements Management Tools</b>	
Dassault Systèmes	Traceable Requirements Management
IBM Rational	RequisitePro
IBM Rational	DOORS
IBM Rational	DOORS Next Generation
PTC	Integrity

Siemens	Polarion
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<b><i>Project Management Tools</i></b>	
Dassault Systèmes	ENOVIA Program Central
Microsoft	Project

<b><i>Configuration and Change Management Tools</i></b>	
Dassault Systèmes	ENOVIA Design Sync
Serena	Dimensions
EMC	Documentum
Serena	PVCS
IBM Rational	ClearCase
IBM Rational	CM-Synergy
IBM Rational	Change
CVS	CVS
Git	Git
Microsoft	GitHub
Atlassian	Bitbucket
JAMA	JAMA
Jenkins	Jenkins
Atlassian	JIRA
Bugzilla	Bugzilla
Perforce	Perforce
Bentley	ProjectWise
Apache	Subversion
Redmine	Redmine

<b><i>Integrated Development Environments</i></b>	
Emacs	Emacs
The Mathworks	Matlab Files
Nedit	Nedit
PsPad	PsPad
TextPad	Text
IDM	UltraEdit

Microsoft	Visual Studio
Microsoft	Visual Studio Code
Xemacs	Xemacs

<b>Dassault Systèmes Tools</b>	
CATIA	CATIA Functional/Logical Design
CATIA	ControlBuild
CATIA	Dymola
CATIA	STIMULUS
ENOVIA	Engineering BOM
ENOVIA	Live Collaboration (CPF)
ENOVIA	Program Central
ENOVIA	Traceable Requirements Management
ENOVIA	Features
ENOVIA	Logical Features
ENOVIA	Design Sync
ENOVIA	ENOVIAvpm
ENOVIA	Project Space
SOLIDWORKS	SOLIDWORKS

<b>Source Code</b>
ADA
ARXML
Code
C
C++
C#
Java
Modelica
SDL
Verilog
VHDL

**Database Access**

Oracle

# Reqtify DEV Pack Interfaces (RQD)

Reqtify DEV Pack contains a set of interfaces to Development and Design tools including Cad Design and UML Authoring Tools.

Please see just below the exhaustive list of interfaces included in the Reqtify DEV Pack:

<b><i>DEV Pack Interfaces List</i></b>	
CATIA	AUTOSAR Builder
CATIA	CATIA V5
CATIA	Product Structure Design
CATIA	Cameo
CATIA	Teamwork Cloud
ETAS	ASCET
Autodesk	AutoCAD
Cadence	AWR Design Environment
Intland Software	codeBeamer
CollabNet	TeamForge
Eclipse	Capella
Eclipse	JDT, CDT, Papyrus UML/SysML
Ellidiss Software	Stood
Esterel Technologies	SCADE
IBM Rational	Rhapsody
IBM Rational	Statemate
logi.cals	logi.CAD
National Instruments	LabView
Objecteering Software	Objecteering
PragmaDev	RTDS
PTC/Atego	Modeler/Artisan Studio
Sparx Systems	Enterprise Architect
The Mathworks	Matlab Simulink Stateflow
Papyrus	Papyrus UML
Elektrobit	EB tresos Studio

# Reqtify TEST Pack Interfaces (RQT)

Reqtify TEST Pack contains a set of interfaces to Testing tools including Test Campaign Management tools, Unit Testing tools, Code Coverage tools, Formal Verification tools.

Please see just below the exhaustive list of interfaces included in the Reqtify TEST Pack:

<b>TEST Pack Interfaces List</b>	
Cadence	vManager
Eclipse	RCP Testing Tool
HP Software	ALM/Quality Center
IBM Rational	Test Real Time
IBM Rational	Quality Manager
IPL	Cantata++
Eclipse	RCP Testing Tool
Isograph	Reliability Workbench
Razorcat	TESSY
National Instruments	Test Stand
Piketec	TPT
SIMULIA	Test Manager
TestLink	TestLink
Vector	vTESTstudio
Vector	VectorCAST

## Plug-in Descriptions



### Reqtify-Tagger (RQG)

Requirements engineering results in a large amount of practices. One of them is to specify what the system shall do with specific requirements.

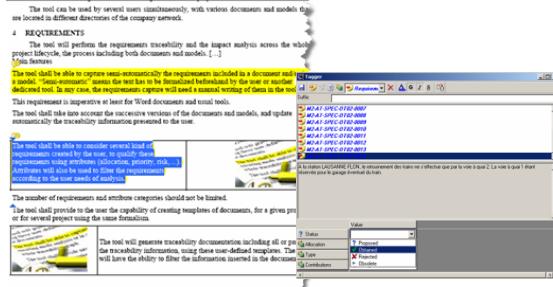
By definition, each requirement shall have at least a unique identifier and a description (Textual and/or Graphical) and can be categorized and classified with dedicated attributes (Status, Maturity, Category, Allocation, Priority...).

This Tagger plug-in gives you the capability in specification writing phase or during specification negotiation phase to automatically identify requirements and their attributes

and to capture all of them within Reqtify. The following picture depicts Tagger's main principle:

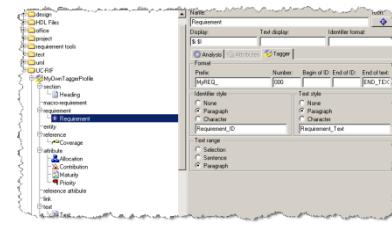
### 1 Create your own requirement profile

PUID Style, Numbering setup...



### 3 Requirements Capture

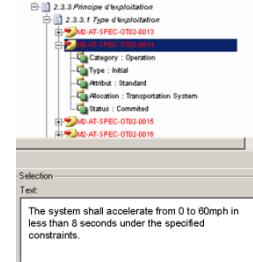
Reqtify captures all requirements details with one click away



## 2 Requirements Identification

Select text in original document

Apply requirement identification



User just has to "highlight" the text of the requirement and clicks in the plug-in to get a unique ID for the highlighted requirement.

Attributes types (Boolean, Literals, Multi Valued...) can be specified in your own Tagger profile.

Attributes can be created automatically in the original documents. Those attributes can also be managed within the Reqtify environment,

When user gets a new version of the document, the plug-in automatically searches for the text of the requirements highlighted in the previous version, and re-affects them. If the requirement definition changed, the unaffected requirements are highlighted and the user will have to re-affect them manually.

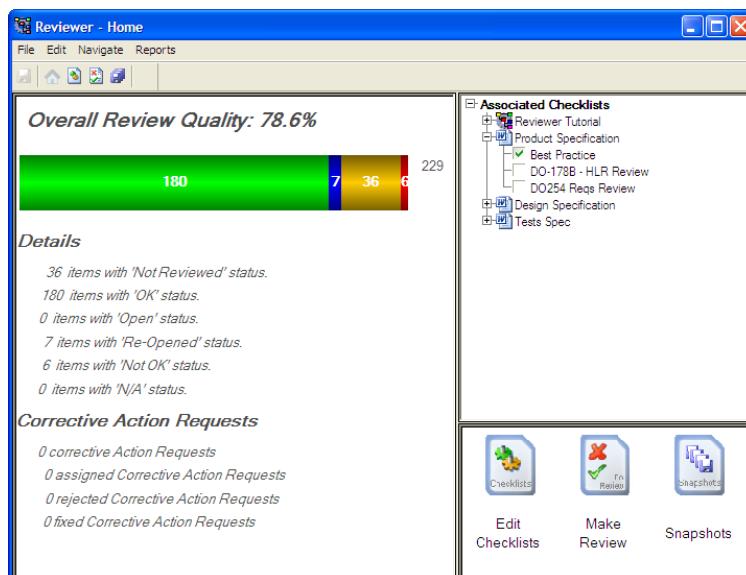
Snapshot is automatically created in order to display differences between the project configurations with older and newer version of the highlighted document.

# Reqtify-Reviewer (RQV)



Quality Standards objectives and Safety Critical Application Development are requesting more and more review activities all along the product or project development lifecycle. Requirements, Specifications, Design, Code and Processes, all of them need to be reviewed for each deliverable in order to prove the compliancy to standards. Reqify Reviewer Plug-in is an easy way to organize and to control those review activities with intuitive checklist editors, Multi-User Review management with Control access rights and reviewer's profiles customization, Automatic review report generation and Overall Review Monitor.

Several Best practices checklist and standards packs are available for ISO26262, DO178B/C, DO254, FDA and CMMI.



**Fig 14 Reviewer Main Cockpit**

Reviewer include a connector with TRC RQA tool (Requirements Quality Analyzer) that allows to define, measure, improve and manage the quality of requirements (SMART: Specific, Measurable, Attainable, Realizable, Traceable) in systems and software projects.

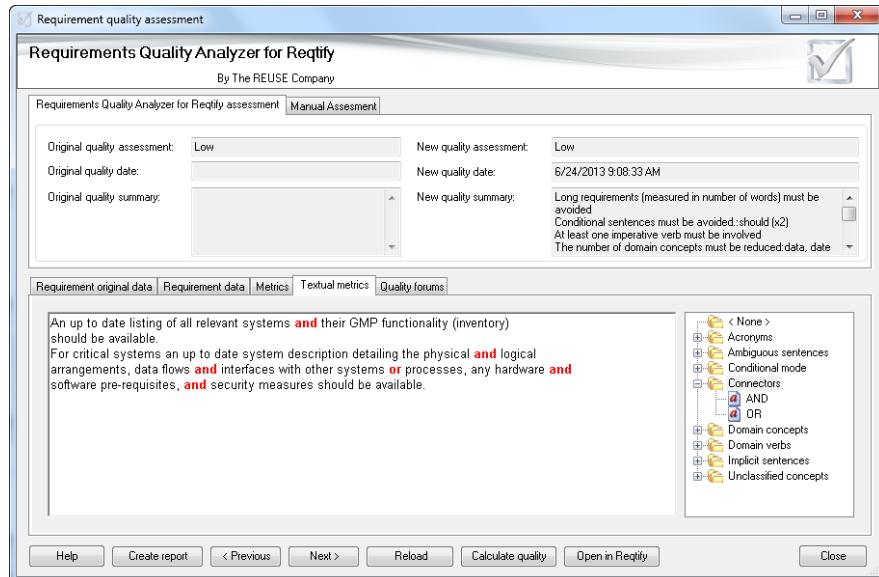
- Assessment by evaluating metrics.
- Verification of Correctness, Consistency, Compliancy (CCC)

Any requirements captured by Reqify are analyzed by RQA through customizable quality rules. Defects are highlighted such as:

- Size
- Readability
- Conditional vs. imperative sentences
- Active vs. passive voice
- Optional sentences
- Ambiguous sentences
- Subjective sentences
- Implicit sentences
- Abuse of connectors
- Negations
- Speculative sentences
- Use of false friends
- Design terms
- Flow terms
- Number of domain nouns and verbs
- Acronyms
- Hierarchical levels
- Volatility
- Number of dependences
- ...



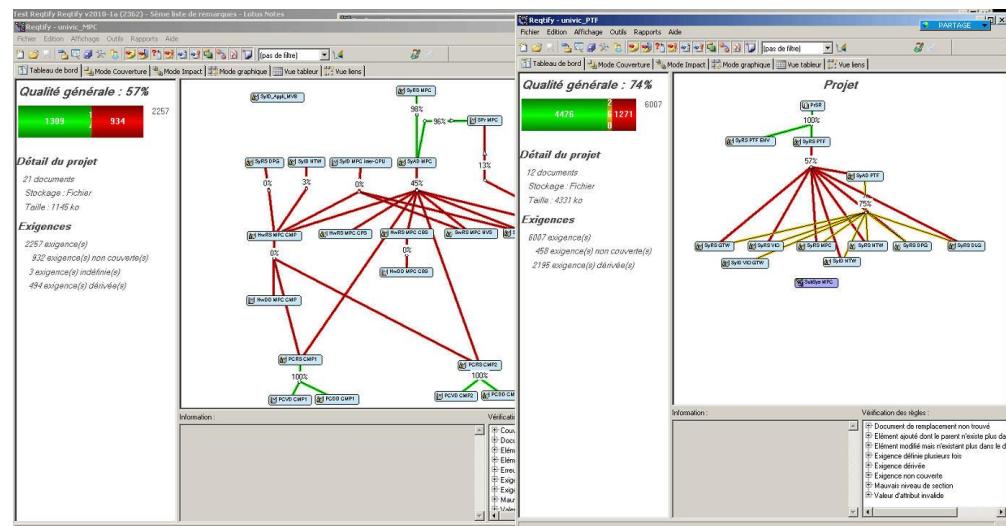
The author can navigate to the requirements in its legacy authoring environment to improve the quality of the requirements.



**Fig 15 Highlight of requirements defects in RQA**

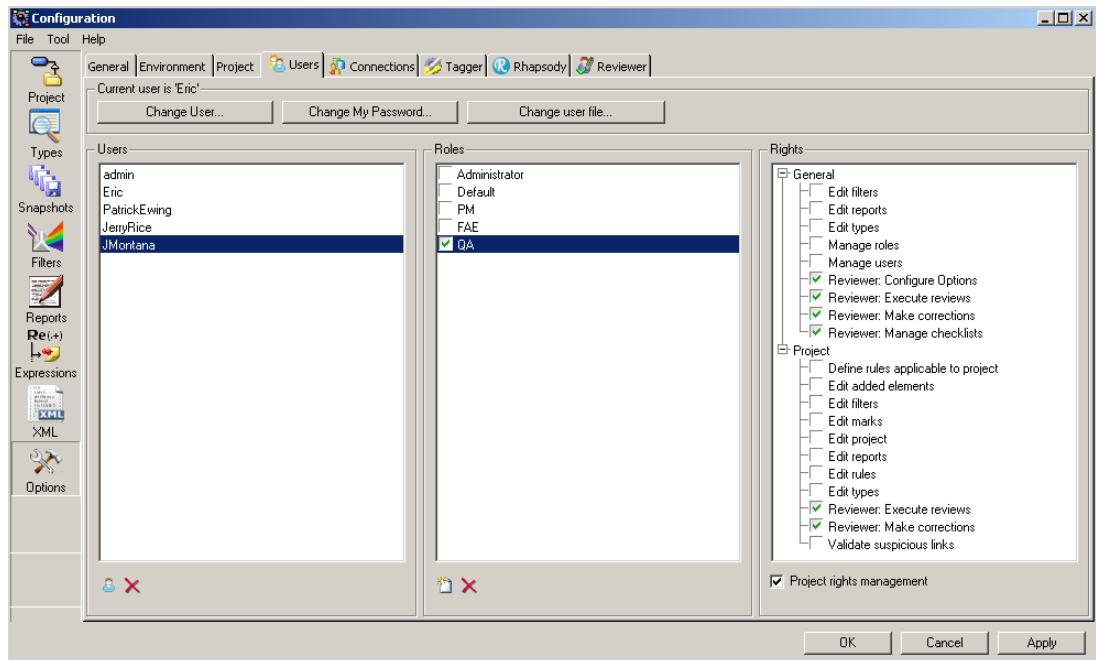
## Reqtify-CPM (Collaborative Project Management) (RCP)

Reqtify includes Collaborative Project Management plug-in. The new Collaborative Project Management (CPM) plug-in considerably eases a previously painful and time-consuming process for OEMs relating to the collation and management of design partners' requirements and traceability data. It enables project managers to consolidate all projects and sub-projects into one global Reqtify project, with automatic linkage of design artifacts to the original requirements. This enables remote teams to more easily undertake global impact analysis, measure requirements coverage and share results on an entire project throughout the development lifecycle.



**Fig 16 – Project and Sub-project Merging**

The CPM plug-in includes a specific user management module allowing user profiles, rights and roles to be defined in order to facilitate access control.

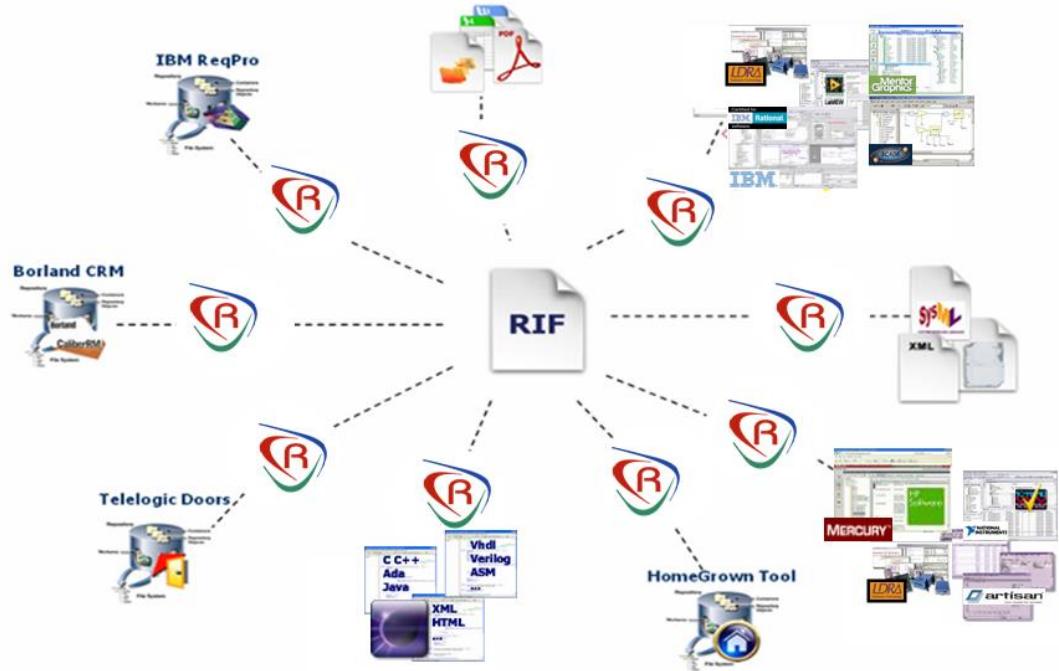


**Fig 17 – User Management Panel**

## Reqtify-ReqIF (Requirement Interchange Format) Gateway (RQR)

ReqIF (Requirement Interchange Format) has been specified by HIS, a joint standard initiative of the German automotive industry. HIS Group motivations are to bundle activities for standard software modules, Process maturity levels, Software tests, Software tools and programming of control units. The common goal is to achieve and use joint standards.

The fact that more and more OEMs and suppliers use RM tools to manage their requirements leads to a situation where a smart handling of requirements across company and tool borders should be possible. The most important thing that is missing is an exchange format which is independent from a special Requirement Management tool and supported by all vendors of RM tools. The Requirement Interchange Format (ReqIF) defines such a tool-independent exchange format. With the help of RM tools supporting ReqIF, it will be possible to bridge the gap between companies that cannot share common RM database.

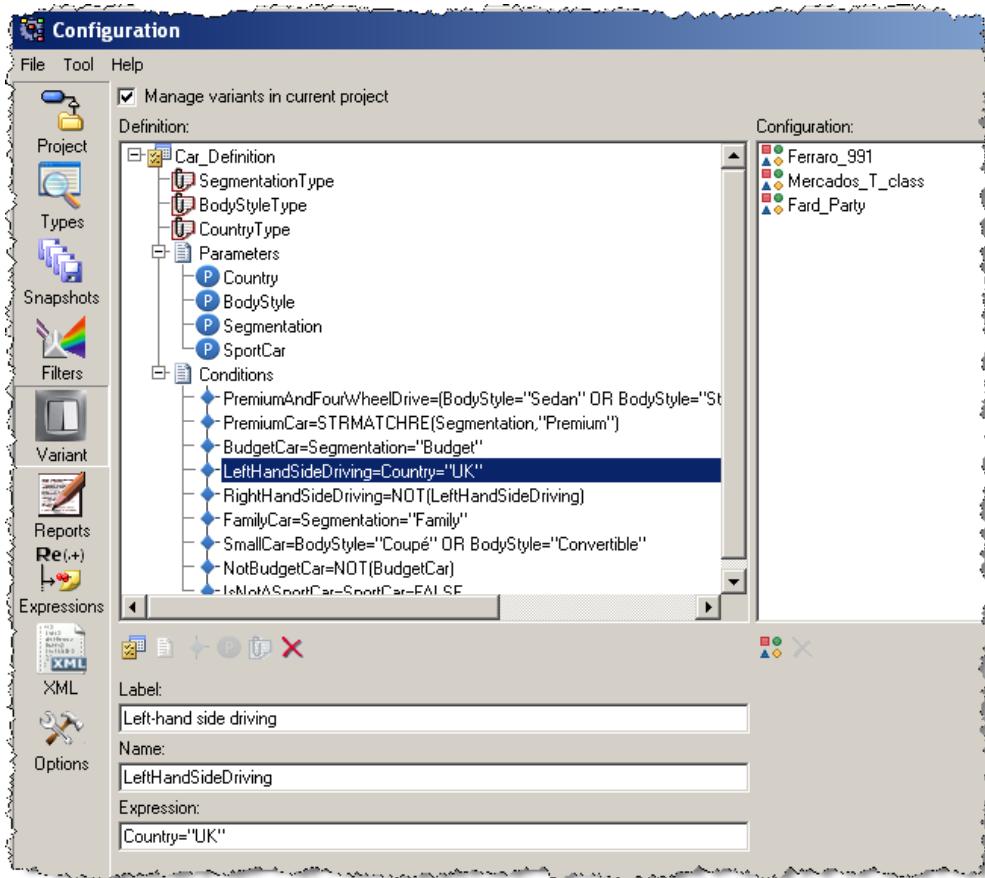


Reqtify is able to export each Reqtify document into a ReqIF 1.2 file that will help you to feed another Requirement Management Tool if needed. ReqIF add a new dimension in Reqtify exchange capabilities. Even if it was possible to directly import requirement from DOORS and export them to another RM tools, RequisitePro for instance, ReqIF Gateway give you the capability to send remotely to stakeholders a ReqIF file that will be reloaded into the remote RM tool. Today this gateway is also able to manage embedded Rich Text and OLE objects and to regenerate an equivalent ReqIF file.

## Variant Management (RCP)

Reqtify includes a Variant Management feature giving the ability to manage different product line and organize requirements and documents per product configuration with powerfully filtering capabilities.

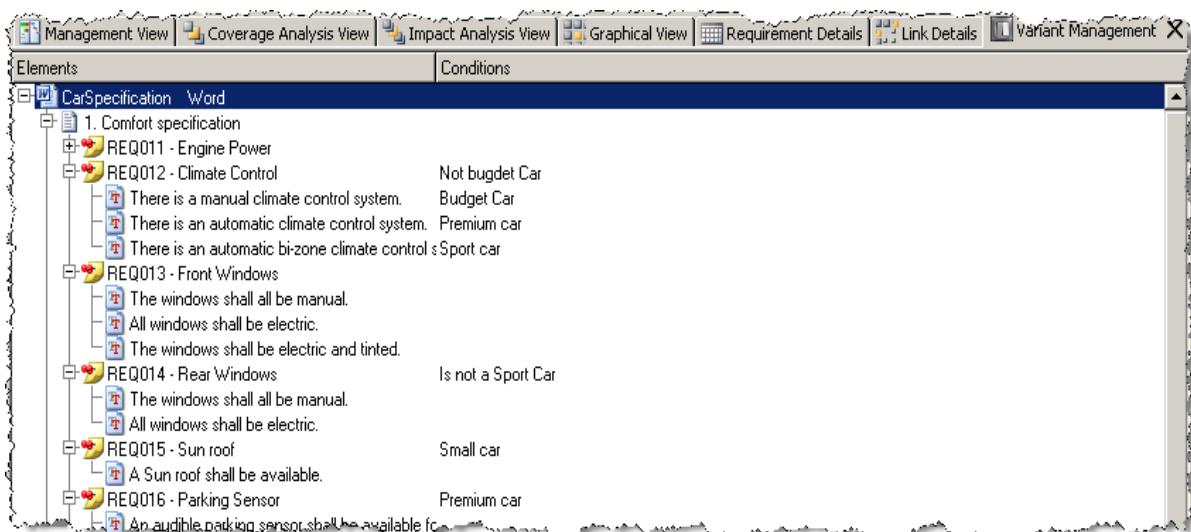
The Variant configuration dialog box is accessible from the main Reqtify option window.



**Figure 11 - Variants Configuration Box**

The Variant Management view allows you to assign the proper conditions to each Reqtify element (Document, Section, Requirements, text, Attributes).

A new Configuration choice box is now available in the main Reqtify tool bar. Users can directly select a particular product configuration and perform all the analysis based on the filtered elements.

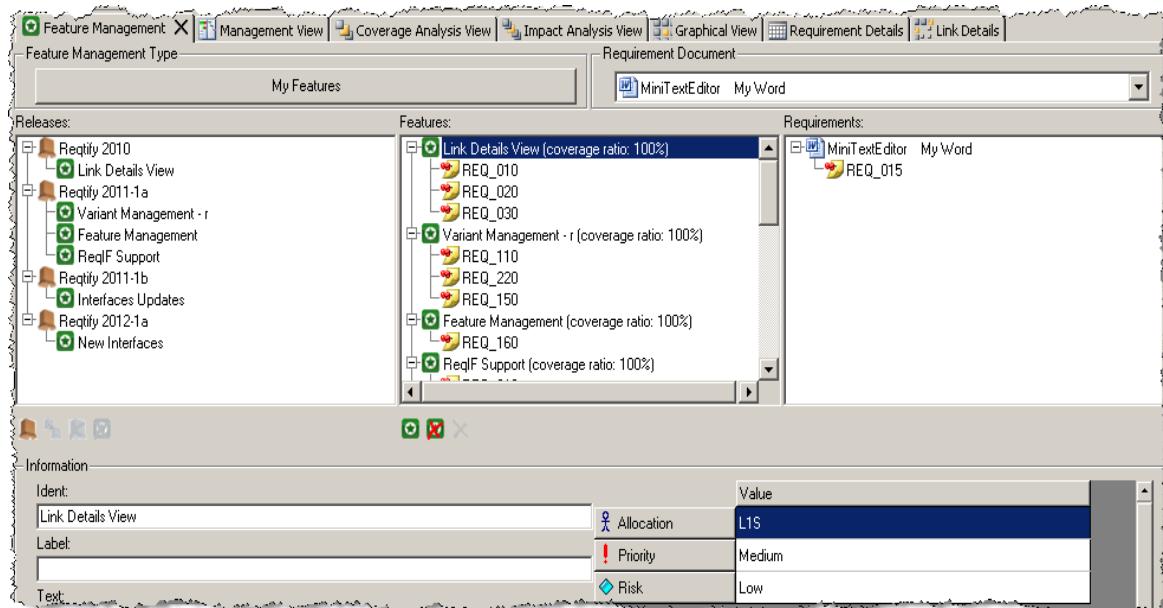


**Figure 12 - Variant Management View**

# Feature Management (RCP)

Reqify includes a Feature Management view allowing users to create product/project release plan to align market expectation with real features quality and avoid delivering the market with a feature which has not been well implemented and verified.

Users can specify the new features and sub-features based on enhancement request coming from customers and marketing teams and build a release plan based on those features. Users have then to allocate requirements to each feature accordingly. The overall release quality can then be highlighted and risk estimated to release a feature or not.



**Figure 13 - Feature Management View**

# Change Tracking (RQS)

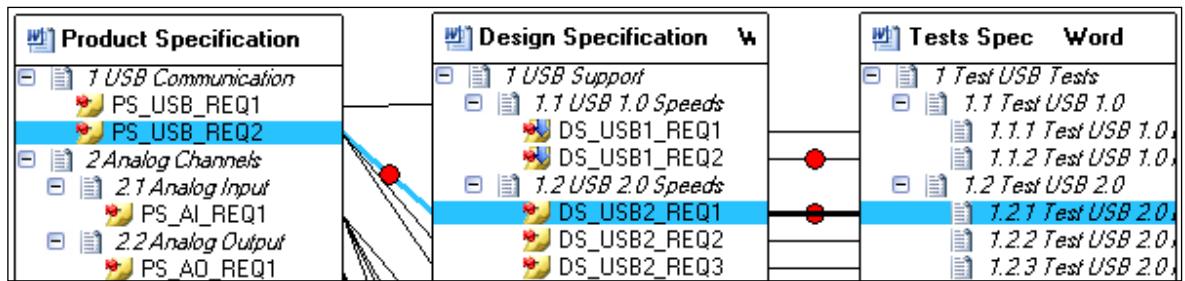
The purpose of this feature is to use mark feature to automatically create marks on modified elements. This automatic marking is executed after the project loading. For each modification, a text containing the date and the modification information is attached to each modified element.

This automatic marking can be activated or deactivated for each project and then it can be configured.

Finally, modification marks can be removed like any other mark. End user can exploit change marks by generating a specific report.

# Suspicious Links (RQS)

A suspicious link is a link that must be verified. A link becomes suspicious when a covered requirement or a covering element has changed. A change is for instance a text modification.



## Notifications (RCP)

Notifications allow to create scheduled task about modifications that occurred on projects or to automatize report generation.

Generated reports will be sent by email and/or stored in a specific directory.

## Discussions (RCP)

The Discussions plugin provides you additional features to manage discussion around requirements.

## CFR Regulations (RQR)

Reqtify is able to import CFR (Code of Federal Regulations) regulations and extract requirements. This helps to trace CFR in your own project or export them to a third-party tool like **3DEXPERIENCE Requirements**.



## EASA Regulations (RQR)

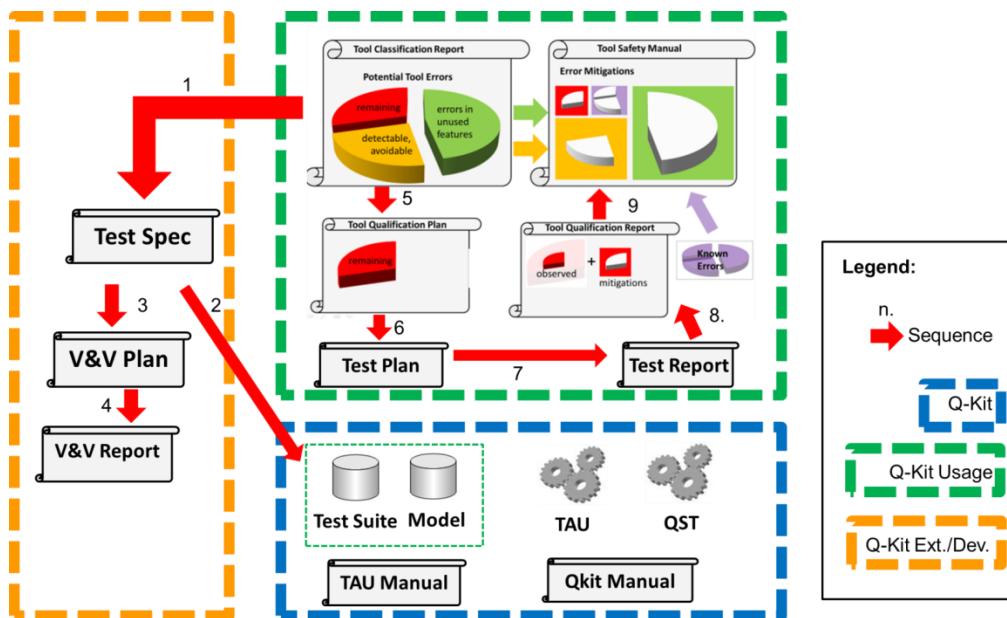
Reqtify is able to import EASA (European Union Aviation Safety Agency) regulations and extract requirements. This helps to trace EASA Regulations in your own project or export them to a third-party tool like **3DEXPERIENCE Requirements**.



# Qualification Kit (RQK)

## Overview

The Qualification Kit provides documentation, test cases, and procedures that let you qualify Reqtify tools for projects based on DO-178C, DO-330, IEC 61508, EN 50128 or ISO 26262. The kit contains tool qualification plans, tool requirements, and other materials required for qualifying software verification tools. With the kit, you can streamline certification of systems developed using Reqtify product.



## Benefits

- Supports tool qualification process for DO-178C, DO-330, IEC 61508, EN 50128 or ISO 26262
- Accelerates the tool qualification with built-in automated testing.
- Covers core Reqtify features: analysis, filtering, reporting, couplings, plugins ...
- Provides a comprehensive set of requirements and test coverage for common Reqtify features
- Includes an extensive suite of automated tests to verify the provided requirements

- Can be extended: User can add tests and mitigations

## Validas

Validas AG has been active since April 2000 as:

- An expert in library and tool qualification
- Innovation partner for method and tool use
- Pilot user and developer for model-based methods

They support their customers in the analysis, design and the systematic and automated validation of the use of their development tools.



## Additional Information

## Platform Availability

Reqtfy is supported on the following platforms:

- Windows 7/8/10/11
- Red Hat Enterprise Linux 6

## System Requirement

The minimal size requirements are as follows:

### Windows

Approximately 200 MBytes available hard-disk space.

512 MByte RAM and 8 MByte VRAM.

High color (16-bit or 65536 colors) at resolution 1024x768 or 1280x1024.

### Linux

Approximately 150MByte available hard-disk space.

512 MByte RAM and 8 MByte VRAM.

High color (16-bit or 65536 colors) at resolution 1024x768 or 1280x1024.

# Reqtify Support

Reqtify software support and maintenance includes software enhancements and technical support at <http://3ds.com/support>.

## Questions?

This document only gives a short outline about Reqtify capabilities. Many more features and options exist.

More information is available at <http://www.3ds.com/reqtify/>