



CATIA SYSTEMS ENGINEERING REQTIFY

*OPEN SOLUTION FOR REQUIREMENTS ENGINEERING
OF INTELLIGENT PRODUCTS AND EMBEDDED SYSTEMS*



ENSURE COMPLIANCE OF COMPLEX PRODUCTS & SYSTEMS

Developing complex intelligent products has never been more challenging; requiring traceability to cover all system lifecycle activities, from the stakeholders needs elicitation to the system retirement. Reqtify, a CATIA Systems Engineering application, provides full bidirectional, end-to-end systems requirements traceability and impact analysis, linking requirements and their related artifacts across multiple systems engineering tools.

REQUIREMENTS DATA FROM A BROAD RANGE OF SOURCES

Reqtify is designed to enable connectivity of today's heterogeneous tool environments. Organizations frequently manage systems engineering artifacts for complex products and embedded systems in silos through many different information sources: Requirements in Microsoft® Word or Adobe® PDF documents, Excel® spreadsheets, IBM Rational DOORS™ modules, in-house tools, and even embedded software defect tracking systems.

Systems models span SysML/UML, Modelica®, and MATLAB® / Simulink® tools, and leverage systems calibration or geometrical parameters that are ultimately implemented in embedded software development environments or 3D-based CAD systems. Systems tests are managed and performed in specialized tools such as Quality Center, Test Stand.

The unique Reqtify impact analysis and traceability solution captures systems or software engineering artifacts (requirements, design elements, test cases, change requests, etc.) from any source to provide a complete traceability view of your projects. Captured artifacts can also be transferred to any other source without loss of meaning.

A NON INTRUSIVE SOLUTION FOR REQUIREMENTS ENGINEERING

With Reqtify, users continue to work in their familiar tool environment. Reqtify adapts to your own process by gathering the information after it has been created in the original tool. Changes are automatically tracked and impact analysis based on traceability is suggested. Flexible reports can include heterogeneous data from separate tools to support the management of complex projects.

INTEGRATED 3DEXPERIENCE PLATFORM OR STANDALONE SOLUTION

Reqtify can be deployed either as a standalone solution with integration to more than 60 common systems engineering solutions, or as part of a web-based Dassault Systèmes 3DEXPERIENCE Platform solution that supports importing of requirements from other sources and leverages ENOVIA Requirements Central and other platform applications.

This rich environment enables requirements to be attached directly to product and systems artifacts, both within the web-based 3DEXPERIENCE Platform and across more than 60 of the most common systems engineering tools. Powerful filtering capabilities are provided to support the management of different product lines and organize requirements and documents per product configuration.



EXTENSIVE INTEGRATION CAPABILITIES

Reqtify fully supports the open Requirements Interchange Format (ReqIF) for requirement exchange, as well as interfaces to requirement-related information stored in a wide variety of data formats, document types, and file formats.

- Document Editors: Microsoft® Word, Excel®, Access, PowerPoint®, Visio® & Project, Adobe Acrobat® & Framemaker, Interleaf, OpenOffice Writer
- Requirements Management: Dassault Systèmes Requirements Central, Borland CaliberRM™, IBM Rational RequisitePro™ & DOORS™, TRC Requirements Quality Suite
- Configuration Management: Dassault Systèmes® Design Sync, Serena Dimensions & PVCS, IBM Rational Clearcase and CM-Synergy, Subversion SVN, CVS
- Integrated Development Environments (IDE): Microsoft Visual Studio®, IDM UltraEdit, TextPad, Xemacs, PsPPad, Nedit, Emacs, Eclipse JDT & CDT
- UML/SysML: Artisan Studio™, IBM Rational Rhapsody™, Rose™ & Rose Real-Time™, Objecteering, Sparx Systems Enterprise Architect
- Modeling & Design: Dassault Systèmes Dymola™, CATIA Systems Dynamic Behavior Modeling, CATIA Functional & Logical Editor, ControlBuild, AUTOSAR Builder, Ellidiss Software Stood & CP Hood, Esterel Technologies SCADE™, IBM RATIONAL Statemate™, National Instruments LabView™, , PragmaDev RTDS, The MathWorks MATLAB & MATLAB Files, Simulink™ Files & Stateflow
- Text/Code editors: TextPad, UltraEdit, VI, EMACS, Microsoft Visual Studio
- Source code management: SVN, CVS, PVCS, IBM Rational Synergy
- Software code files: C, C++, Ada, SDL, VHDL, Verilog, Matlab™ (.m) files, Test scripts & log files

Our 3DEXPERIENCE Platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 170,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

