Rational® software

IBM Rational Rhapsody Gateway Add On.

The IBM® Rational® Rhapsody® Gateway Add On helps you meet demanding design requirements by extending the benefits of traceability and interoperability to your software development team. The Gateway solution provides bi-directional information exchange with third-party requirements and authoring products. Its open architecture supports multiple workflows and helps you organize complex requirements scenarios.

Highlights

- **Organizes complex requirements scenarios from several sources into a single requirements management (RM) environment**

- **Provides compatibility for SysML, UML and DoDAF requirements traceability**

- **Helps create a comprehensive RM environment to drive project efficiencies with bi-directional information exchange**

- **Allows you to import requirements from IBM Rational DOORS, IBM RequisitePro or other third-party RM products with comprehensive reporting capabilities including coverage evaluation, impact analysis, traceability matrix and project data reports**

Facilitating requirements reporting

Using the Rhapsody Gateway Add On, you can organize complex requirements scenarios from several sources into a single requirements management (RM) environment. You can then automatically collate these scenarios into detailed impact reports and requirements traceability matrices for traceability analysis. The Gateway solution is compatible with the Systems Modeling Language (SysML), the Unified Modeling Language (UML) and the Department of Defense Architecture Framework (DoDAF). With the Gateway environment, you can create traceability links using SysML requirements dependency relationships and then analyze them. The Gateway solution is particularly valuable for programmers, developers and systems architects involved in engineering projects, where specific requirements traceability reports are critical deliverables. Specifically, the Rhapsody Gateway Add On helps your organization meet the demanding safety regulations of standards-driven industries.

Flexible approach to traceability

The IBM Rational Rhapsody Gateway Add On accommodates traceability with a flexible approach to your workflow. You can import requirements from requirements management or authoring solutions. You can then link requirements to model elements stored within the Gateway model. The Gateway environment helps ensure that model elements and requirements are up-to-date and synchronized throughout the development life cycle. It also provides traceability across multiple IBM Rational Rhapsody models, as well as test designs and final code delivery.

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IBM Rational Rhapsody Gateway Add On features and benefits

Feature	Benefit
Provides comprehensive support for industry-standard SysML and DoDAF domain-specific languages	Facilitates traceability of requirements workflows on all levels, in realtime
Imports requirements from IBM Rational DOORS®, IBM RequisitePro® and other third-party RM products	Integrate existing process and leverage existing tools
Flexible and open architecture supports multiple RM products, workflows, requirements definitions and hyperlinks	Automatic management of complex requirements scenarios for views of upstream and downstream impacts
Comprehensive reporting capabilities, including coverage, impact, traceability matrix, project data and other customizable reports	Reliable impact reports and requirements traceability matrices to help meet the most rigorous industry safety standards
Monitors project requirements and design for coverage and impact analysis	Helps improve project management and risk assessment
Bi-directional information exchange capability	Helps improve consistency of information between design and requirements teams
Bi-directional navigation between requirements and design	Helps locate critical information more quickly

Import requirements from third-party RM products

Importing requirements from third-party RM products to the Rhapsody Gateway Add On enables you to view model-driven development or requirements changes and track between information exchanges for ready comprehension. The open architecture supports multiple requirements management products, workflows, requirements definitions and links. The Gateway solution's reporting capabilities include coverage evaluation, impact analysis, traceability matrix and project data reports.

How it works

The Rhapsody Gateway Add On takes the formalized requirements and systems definitions as inputs and monitors the design and implementation of these inputs throughout the project life cycle. The Gateway environment helps you manage requirements traceability, with coverage and impact analysis across your project life cycle—assisting teams to analyze their requirements using the standard SysML requirements notation. The Gateway solution also allows you to automatically produce traceability documents from which you can create customized reports.

For more information

To learn more about the Rhapsody Gateway Add On solution, contact your IBM representative or IBM Business Partner, or visit: ibm.com/software/rational