



Telelogic Rhapsody System Designer

Facilitate Complex Systems

In order to successfully design, develop, and deliver robust embedded devices, systems engineers must dramatically increase their productivity. Telelogic Rhapsody® System Designer™, a state-of-the-art environment for systems design and analysis, enables engineers to adapt to changing customer requirements and to communicate design changes to all project stakeholders. Rhapsody System Designer is founded on the belief that developers must be able to verify their designs as they evolve, to ensure that customer requirements are always satisfied.

BENEFITS

- Communicate system design to all project stakeholders clearly, formally, and unambiguously
- Manage requirements changes and assess their impact on the design and architecture
- Produce accurate systems documentation at the push of a button
- Verify that system designs are functionally correct and satisfy requirements, minimizing costly re-engineering actions
- Increase savings and boost productivity by reusing legacy systems, code, and models

FEATURES

- An integrated requirements and design environment with domain-specific modeling capabilities, including DoDAF
- Full requirements traceability and analysis throughout the project life-cycle with customizable, automatic documentation
- Model simulation and execution verify that designs and models are "on target"
- XMI and Rose importing for integration of legacy systems and reuse of existing code
- Full Configuration Management Interface support with advanced graphical difference and merging capabilities

Specify Requirements Quickly and Accurately

Rhapsody System Designer is an integrated visual modeling environment for systems engineering projects. It employs the latest versions of the Systems Modeling Language (SysML) and the Unified Modeling Language™ (UML®) 2.0, allowing systems engineers to quickly and accurately specify requirements, design structures, and behavioral aspects of the system. Furthermore, Rhapsody System Designer can be used to visualize requirements traceability from the system model back to the requirements themselves. If a requirement is changed, systems engineers can quickly see the impact of the requirement change on the overall system design.

Tracking Model Elements

Rhapsody System Designer uses an advanced model browser and data dictionary to allow engineers to quickly sort, organize, and edit their models. Model elements available in the browser can be used in any number of diagrams or views of the system. The browser tracks all references to model elements, ensuring that changes are propagated across all views of the model. Also, any Rhapsody System Designer SysML or UML diagram can be supplemented with domain-specific graphics to maximize system design readability across a range of audiences.

How it Works

Rhapsody System Designer includes an advanced simulation capability, so users can functionally test their design to ensure that it satisfies customer requirements at any point in the development process. During functional simulation, behavioral statecharts, activity diagrams, and sequence diagrams are animated, thereby highlighting the overall functionality of the system. Developers can easily identify and eliminate errors and undesired behavior to ensure an error free system. Users can further enhance the simulation process by adding customized, Web-based panel graphics to show engineering mock-ups of the system, a capability that simplifies design reviews and customer walkthroughs.

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Rhapsody System Designer automatically generates customizable documentation directly from the system model and its repository. Designers can make any necessary changes to the model and, in one step, produce new project deliverable documentation with relevant changes in place.

System Requirements

- Microsoft® Windows® 2000, XP
- Pentium 300MHz
- 64MB RAM (Minimum), 128MB RAM (Recommended)

Specification Highlights

- The latest version SysML (Requirements, External, Internal, Parametric, Activity, Statechart, Sequence Diagram, and Use Case) and UML 2.0 (Activity, Class, Component, Structure, Deployment, Interaction, Package, Sequence, Statechart, Usecase Diagram) visual modeling support for high-quality products.
- Advanced graphics support with domain-specific modeling to enable simple realization of complex designs.
- Fully integrated requirements capture and traceability for accurate design and development.
- Advanced browser with model organizer to make complex models manageable.
- DoDAF modeling support (with additional DoDAF pack), complying with DoD design and development standards.
- Automatic documentation generation, which accelerates production and ensures that documentation and design are synchronized.
- Static model checking to ensure completeness and consistency throughout the development lifecycle.
- Advanced functional simulation capabilities with Web-based panel graphics to easily identify and correct errors.
- Visual differencing and merging to enhance communication.
- Legacy system and code integration using XMI import/export and Rose Import features (with additional add-on pack).
- Configuration management interface capabilities (with additional add-on pack), so you can use third-party CM tools.
- Intelliviser tool for trouble-free modeling assistance.
- User-defined macros and helpers to extend your system with specific wizards and utilities.
- Cross-platform design with Rhapsody System Architect™ and Rhapsody Developer Edition™ using a common model repository.
- Floating and dockable window support for engineer flexibility.

About Telelogic

Telelogic® is a leading global provider of solutions for automating and supporting best practices across the enterprise — from powerful modeling of business processes and enterprise architectures to requirements-driven development of advanced systems and software. Telelogic's solutions enable organizations to align product, systems, and software development lifecycles with business objectives and customer needs to dramatically improve quality and predictability, while significantly reducing time-to-market and overall costs.

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