

New graphical engine for Rhapsody

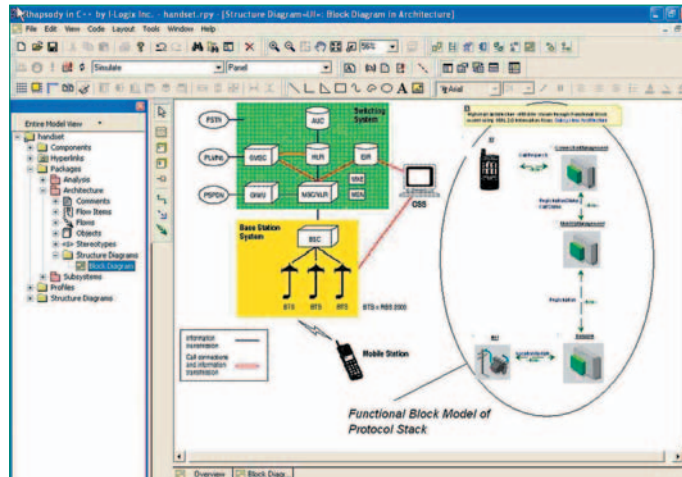
I-Logix has released Rhapsody 6.0, the UML 2.0 Model-Driven Development (MDD) tool which uses a new graphical engine to dramatically improve user workflow, extending its design capacity with advanced formatting, ergonomics, and drawing capabilities.

A complete upgrade to the diagram editors provides a workflow environment that goes beyond the Unified Modelling Language (UML) to allow the capture of any type of diagram relevant to the developer's domain. Simplifying the developers' task are additional graphical features such as bit-maps, rich text, and hyperlinking, as well as enhanced formatting, presentation and printing functions.

Rhapsody 6.0 provides a development environment where systems as well as software engineers can work in a way natural to their preferred methodology and even languages.

Rhapsody 6.0 also features The Rhapsody Gateway, a requirements management component designed to provide seamless bi-directional interface with third party requirements management tools including Requisite Pro, DOORS, Word, and Excel. The Gateway is a complete traceability solution that allows users to link the Rhapsody Model-Driven Development (MDD) environment with the original requirements, view and analyse coverage of those requirements, and examine the upstream and downstream impact of requirements changes in real time at any level.

Targeting the C developer, Rhapsody 6.0 provides the benefits of Model-Driven Development, allowing them to work comfortably in either a Structured and/or Object-Oriented environment. Using Rhapsody, the structured C programmer gains productivity enhancements by working with graphical files, functions and data in an environment that allows execution and debugging to be performed at the design level. In addition, legacy and external C code can be imported



in its original form for greater reuse of Intellectual Property (IP), and if desired, migrated to UML. Full roundtrip capabilities for Rhapsody in C users allow maximum flexibility to work directly with C code. Rhapsody 6.0 provides a unique development environment that is natural and easy to use for the C developer.

For Mission Critical Certification, Rhapsody 6.0 provides the user greater control with a scalable and certifiable framework for C++. The framework is model-based, originating directly from the Rhapsody model, providing component structure and functionality.

Users can now automatically generate test vectors that offer

the highest Modified Condition /Decision Coverage code coverage possible for a particular design. With Rhapsody Automatic Test Generator (ATG), another add-on product available with Rhapsody 6.0, I-Logix extends Model-Driven Development to include Model Driven Testing, eliminating the need to manually develop test cases and streamlining the verification and validation cycle.

The automatically generated test cases can then be used for Unit Testing, Integration Testing and Regression Testing. They can be exported as UML Sequence Diagrams to Rhapsody TestConductor, providing the user with a white box view of the test case execution. Test

cases can also be exported as complete test benches to 3rd party software manufacturers such as LDRA's TBrUnR and IPL's Cantata++R, providing a seamless integration for black box as well as target based testing.

The resulting testing process not only significantly reduces the cost of quality by removing the need to manually define test cases, but also uncovers, very early on, logical errors and dead code that normally go undetected until very late, reducing management frustration and quality cost even further.

Rhapsody 6.0 includes renovations to the graphical editor featuring an all-new look and feel with advanced formatting options including custom colour UML 2.0 profile skins, ensuring conformity across designs.

All UML diagrams within Rhapsody now have advanced white boarding capabilities, so that domain specific information outside of UML can be captured and maintained within the Rhapsody design environment.

High-resolution bitmaps may now be added anywhere in the design to replace UML elements for a more realistic and comprehensible systems design.

Statestate 4.0 includes enhanced GUI

I-Logix has also released Statestate 4.0, a model-driven development (MDD) tool for embedded systems. Statestate's redesigned graphical user interface provides performance and workflow improvements by combining many of the tool's popular views into a single integrated development environment (IDE) designed to improve productivity.

Statestate's single IDE increases readability, navigation, and streamlines the development process by reducing model creation and modification times by allowing more efficient data access, multi-element manipulation, and minimising mouse click rates.

In addition to the new GUI, Statestate now provides an improved documentation engine allowing for easier access to the comprehensive database of Statestate information contained within the documentation repository. Statestate 4.0 also incorporates Flowcharts as part of its

graphical language, adding a behavioural view, which can also be simulated.

Production quality C code, such as that used in automotive ECU's or other space restrictive 8/16 bit applications can be automatically generated directly from the graphical specification utilising the Statestate MicroC Code Generator, further streamlining the model-based design process into a single integrated environment.

Other new features include support for 64-character naming and exact case support to allow more extensible naming of elements, updated intelligent help support engine to allow the user to fix model issues more quickly, and an intelligent Model Checker featuring user-selectable regions for error testing.

Statestate 4.0 features tighter integration and updated support for more Compilers, Configuration Management, and Requirements Management tools