SimuQuest
Possibility Engineering

UniPhi

Develop modular, reusable models in a way that has never before been possible.

UniPhi is a toolbox for Simulink that facilitates the rapid development of embedded applications, enabling a modular model architecture in which target-specific and target-independent functionality are decoupled. System variables and calibration parameters are easily managed via a data manager, facilitating effortless model management and powerful plug-and-play development of any embedded system.

Key Features

- **One Common Place for Signal Management**

Through the Signal Manager interface: create, view, find, or change the data signals available in your model.

- **Easy Feature Integration**

Feature dependencies can be easily managed utilizing UniPhi blocks and architecture - avoid hand-routing signals and spaghetti models.

- **Switch Between Simulation & Code Generation Targets**

Instantly switch between different targets - e.g., between MPC56x, MABX and Simulation!

- **Separation of Application and Target Dependent Software**

Follow best software development practices - supports a modular software architecture.

- **Seamless Transfer: Concept to Production**

UniPhi has enabled customers to develop complex engine management and body control strategies. Concept algorithms are easily integrated into large, complex strategies assembled from reusable feature libraries. Efficient production quality code can be automaticaly generated.

- **Generate Code for Your Entire Application**

UniPhi, used in conjunction with the Mathworks Embedded Coder and Micro & OS Blocksets from SimuQuest, enables the code for complete applciations to be generated without the need for any hand code.

- **Export or Import Data Dictionaries**

Configuration is version-controllable.

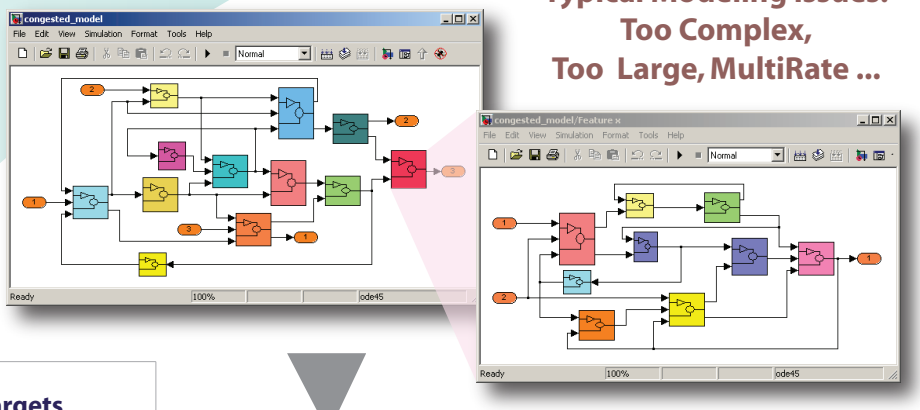
- **Customizable Script Interface**

Powerful script interface allows you to use UniPhi to get data from Excel, Access, Word, or any data source accessible from MATLAB!

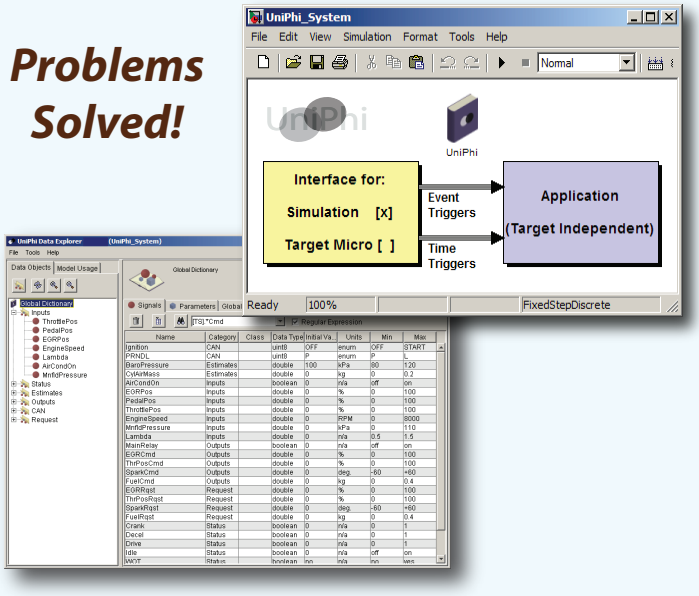
- **Customized Data Dictionary Attributes**

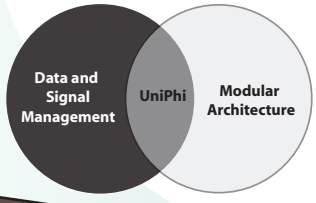
User attributes can be added so that all of your data dictionary information can be represented in UniPhi.

Typical Modeling Issues: Too Complex, Too Large, MultiRate ...



Problems Solved!





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Contact

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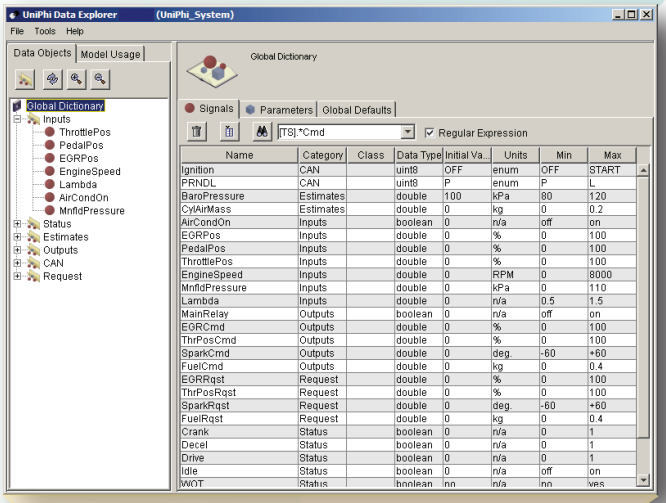
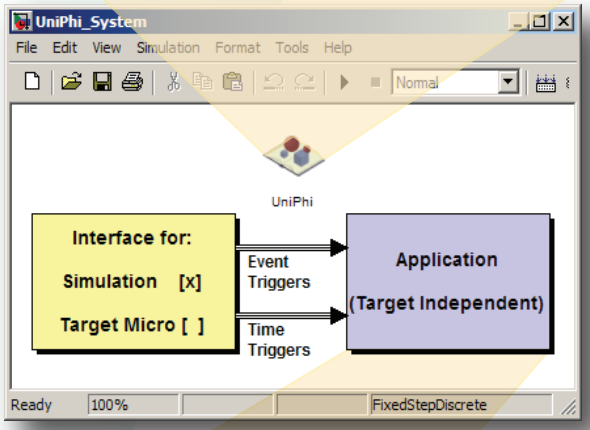
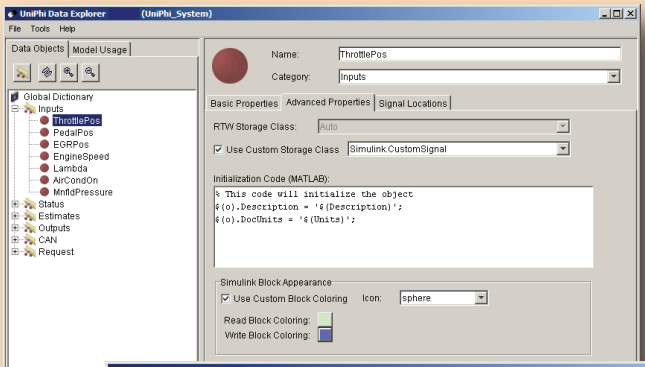
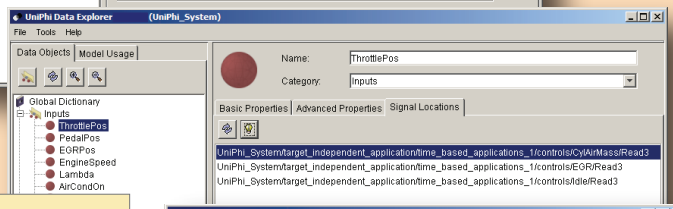
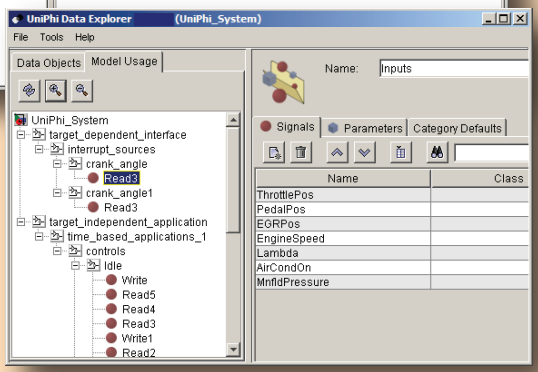
UniPhi : *Seamless, Modular Model Management from Concept to Production.*





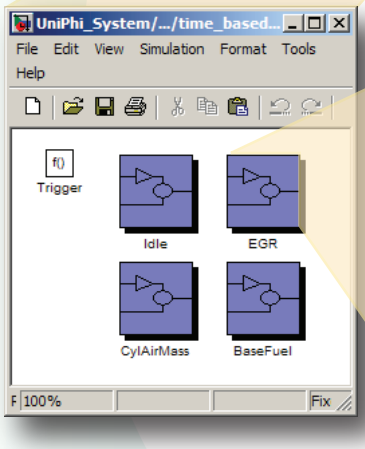


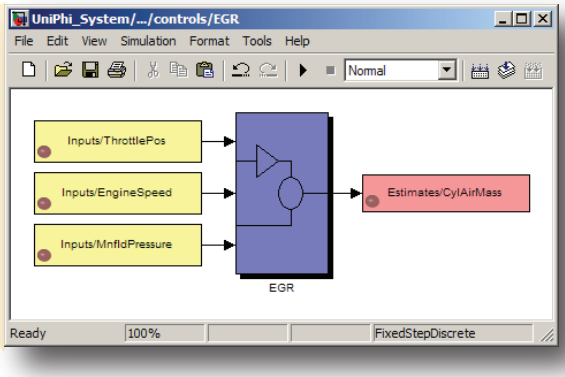




Multiple views:

- Data dictionary - fully customizable.
- Globally, by category or by signal.
- Sort by any attribute.
- Easily trace signals & parameters throughout model.





- Seamless Integration with Simulink/Stateflow.
- Effortless Management of Large, Complex, Multi-Rate Models.
- Easy Addition/Removal of Features Enables Rapid Virtual Integration and Test.
- Increases Cohesion and Reduces Coupling.
- Easy Management of Any Embedded System.

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Requires: Matlab, Simulink

Related Products:

SimuQuest QuantiPhi. Micro, OS blocksets for production code generation.

SimuQuest Enginuity. Tunable engine model to support engine strategy development.

Mathworks RTW Embedded Coder. Generate optimized code from models.

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