

# MiMiC v3 Product Overview Bulletin

MiMiC v3 is the first third-generation .NET simulation software for the process control industry. It is graphical, flexible, powerful, and dynamic . . . the proven solution for process control system Software Acceptance Testing & Operator Training.



## MiMiC v3 is the Solution for:

- Testing automation system application software during capital projects
- Testing automation system enhancements and additions
- Training operators before startup of new units
- Retraining and qualifying operators on existing operations
- Reducing process and safety risk from the automation system
- Meeting the validated industries' testing requirements

## MiMiC Simulation Advantages

MiMiC was designed for **Software Acceptance Testing** and **Operator Training Systems**. MiMiC provides:

- Non-intrusive simulation interfaces that require minimal control system changes
- Integrated Operator Training Management
- Control system integrity

Unlike other process simulation applications, MiMiC is **easy to use**. It was designed with the end user and integrator in mind. MiMiC is a shrink-wrapped **configurable** product that includes:

- Automatic integration with control system
- Auto-generation of simulation database

MiMiC v3 is **flexible** and **dynamic**, yet extremely **powerful** with many valuable time-saving features. MiMiC advantages include:

- Scalable from small to large applications
- Selective application of simulation models
- Dynamic, accurate modeling functions
- Easy-to-use high-fidelity application packages

## MiMiC v3 Latest Technology

A third-generation simulation product, MiMiC v3 incorporates all of the latest technology for speed, compatibility, and universality:

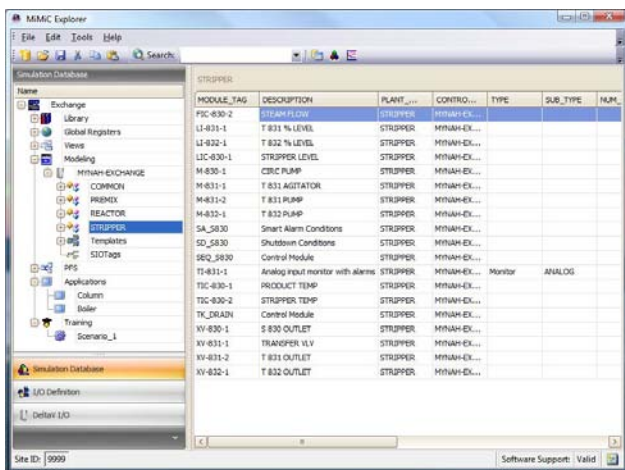
- .NET Graphical User Interfaces
- XML data exchange
- OPC DA (and eventually UA) access and integration for all data
- IEC function block simulation objects

- MS SQL Server Open Database
- Scalable, multiprocessor support
- MS Remote Access and Server Support

## MiMiC v3: Graphical, Flexible, Powerful, and Dynamic

MiMiC v3 was designed with the end user and integrator in mind, based upon extensive user feedback and industry experience of MYNAH engineers.

**MiMiC v3 Explorer** - Complete management of the simulation environment from one .NET window:

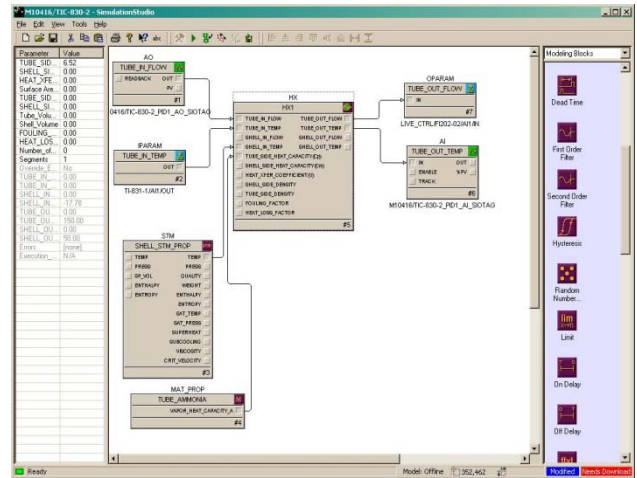


MiMiC v3 Explorer

- One-click start/stop of simulations
- XML import/export of any system components
- Integrated update and support notifications

**MiMiC v3 Simulation Studio** - Graphical development of simulation models using IEC1131 function blocks:

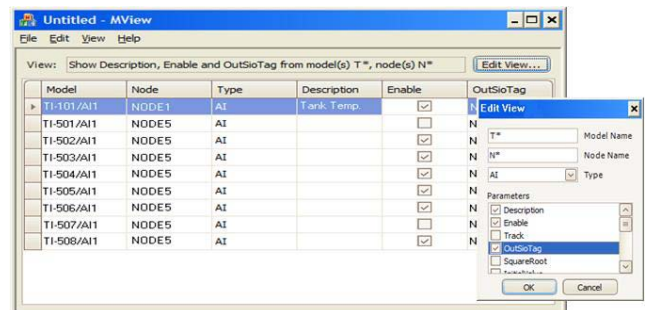
- Offline and online viewing of all models
- Automatic unit conversions
- First principles modeling functions



MiMiC v3 Simulation Studio

**MiMiC v3 User Views** - user-configurable views of dynamic MiMiC or OPC data:

- **MView** – Tabular Views of simulated IO, model, or training scenario data
- **Data Monitor** - Dynamic trends of MiMiC and OPC Server
- **Component Studio** – Dynamic graphical process flow diagrams of MiMiC and OPC Server data

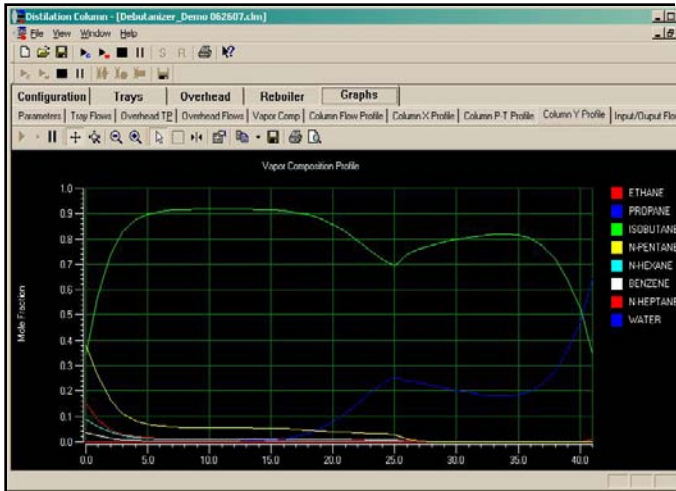


MiMiC v3 MView

## MiMiC v3 Advanced Modeling Package

- Dynamic, high-fidelity unit operations modeling:

- Intuitive wizard-driven configuration
- Powerful data visualization tools
- Scheduled for release in August 2008



MiMiC Advanced Modeling: Distillation Column

MiMiC v3 technology and architecture make using the product easy and intuitive. The product offers greater return than competitive solutions at a fraction of the cost.

## MiMiC v3 System Requirements

- Pentium 4, 2.6Ghz processor or better
- 512 cache Intel Gigabit NIC
- 2 GB RAM, 80 GB hard drive
- XP Professional SP2 or Server 2003

## MiMiC v3 Operator Training Manager –

- Tool to develop structured operator training systems:
- User-configurable scenarios, malfunctions, training events
- Integrated session scoring and student evaluation
- Process SNAPSHOT Freeze/Save/Restore controls
- Training session reports in Rich Text Format, XML, or PDF format

## MiMiC v3 Ordering Information

MiMiC is licensed on a per-computer basis dependent on the number of MiMiC SIO Tags required, starting with 1,000 SIO Tags Base License up to a large license with 30,000 SIO Tags.

One driver pack is included with the base license. Additional driver packs can be ordered as software options.

Other software options like the MiMiC Operator Training Manager or MiMiC Server can be added to the system as required. All base software comes with one-year of MiMiC Software Support. MiMiC Software Support should be purchased each year to stay current with support, upgrades, and new releases.

Malfunction No...	Description	Sequence #	Pre-exe. Time	Post-exe. Time	Expected Results	Score
MF1	Malfunction 1	1	0	0	0 "0V-831-1/DC1/PV... 0/2	
MF2	Malfunction 2	2	0	0	0 "0V-821-1/DC1/PV... 0/2	
MF3	Malfunction 3	3	0	0	0 "0V-831-1/DC1/PV... 0/2	
MF4	Malfunction 4	4	0	0	0 "0V-831-1/DC1/PV... 0/2	
MF5	Malfunction 5	5	0	0	0 "0V-831-1/DC1/PV... 0/2	
MF6	Malfunction 6	6	0	0	0 "0V-831-1/DC1/PV... 0/2	

[MiMiC v3 Operator Training Manager](#)

## Process Control System Platforms Supported

MiMiC Supported Systems	MYNAH SIO Drivers Needed
Any Open OPC Process Control System	Open OPC Client Driver
Any System Using Modbus Serial or TCP	Modbus Serial and TCP / IP Driver Pack
Emerson DeltaV MD, M5Plus Controller	DeltaV Railbus Driver Pack (requires the DeltaV Virtual IO Module, MIM-4207)
DeltaV Simulate Workstation	DeltaV Simulate OPC Driver Pack
DeltaV Simulate for SIS	DeltaV SIS OPC Driver Pack
HIMA Soft PLC	HIMA Soft PLC Visualization Gateway Driver
Rockwell ControlLogix	Rockwell Driver Pack (DF1 Serial and Ethernet/IP)
Allen Bradley PLC5	
Allen Bradley SLC5/xx	
Schneider Unity OFS	Modbus Serial, TCP / IP, and Unity OFS Driver Packs
Modicon 984	
Quantum	

## Additional Software Options

Software Options
Operator Training Manager
MiMiC Server (Remote Terminal Services using MS Server 2003/2007)
Advanced Modeling Packages
Boiler Modeling Package
Distillation Modeling Package

## Reaping Substantial Business Benefits and ROI with Simulation

Substantial return on investment in simulation systems has been proven across all process industries from batch to continuous processes. The improvements manifested in a third-generation system are even more profound.

Savings result from identifying and correcting automation system errors in a low-cost, off-line environment prior to system startup and commissioning and also from identifying sleeping errors or inadequacies in the automation system application software.

## Identifying and Correcting Errors Offline Saves 10-100 Times the Cost

The cost of investment in office space, simulation hardware, software licenses, and engineering costs for the off-line simulation system is a fraction of the infrastructure cost associated with a process facility.

In addition, identifying and correcting automation system errors in an off-line environment allow rapid testing and correction without halting plant operations, disrupting operations support staff, or jeopardizing safety standards. Offline identification and correction of errors in an off-line simulation system cost 10-100 times less than in the online plant.



### Simulation Minimizes Risk

One of the greatest risks of automating a process facility is the quality of the automation system application software.

Without using a simulation system, the user has no ability to test the application software thoroughly before actual start-up and production.

By testing the automation system with a simulation system for normal, abnormal, and upset conditions, the user can verify that the application software has been designed and implemented to meet the functional needs of the process

### Simulation Software: The Proven Solution

Using simulation for testing and training for automation systems has proven benefits for capital project execution (CAPEX) and operational excellence (OPEX) initiatives. MiMiC v3 is the proven solution to deliver significant results with minimal risk and investment.

#### HOW TO CONTACT US:

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