

MiMiC v3.1.0 Release Notes

Product Description

These release notes are for MiMiC General Release Version 3.1.0. The previous released version is 3.0.6. The update / installation procedures are documented in the following pages 2-4. This version of the software contains major enhancements and corrected issues as listed below.

Recommended for all MiMiC v3 users at or prior to v3.0.6.

Enhancements

1. **Multi-User support.** This version of MiMiC can be deployed on Microsoft Windows Server 2003 as a single user or multi-user simulation system. Microsoft Windows Server 2008 is not currently supported. Users may also install this MiMiC version under Microsoft Windows XP as a single-user system. For multi-user support, end users must acquire and install a Microsoft Terminal Services Server license as part of the Windows Server PC. By using Microsoft Remote Desktop Client logins into the Server, users can run multiple sessions to access a single MiMiC database. Use of multiple MiMiC databases in this multi-user environment is not supported.
2. **Updated OTM engine.** The OTM engine has been redesigned for this version of MiMiC. Instead of a separate application, the OTM engine has been implemented as a MiMiC service that runs in the background. Scenario and Malfunction configuration functionality is now a part of the MiMiC Explorer. The ability to Freeze/Snapshot/Restore has been separated from the OTM interface and added to the MiMiC Explorer. This change allows Freeze functionality independent of OTM Scenario execution. Additionally, the Component Studio application can now launch Scenarios and perform ad hoc I/O block failures.
3. **Enhanced OPC Server.** The OPC server has been redesigned and enhanced to include all modeling items, training scenarios, snapshots and global registers. Previous versions included only a limited set of modeling items, and these only if the given simulation nodes were online. Users can now read/write a comprehensive set of items, control scenarios, and perform Freeze/Snapshot/Restore functions via OPC.
4. **New HIMA simulation interface.** MiMiC v3.1 has a driver and configuration utility for HIMA ESD systems. Both the driver and the configuration utility communicate with the HIMA Visualization Gateway. For this release of MiMiC, the Visualization Gateway and MiMiC must be installed on the same PC. The utility reads the HIMA configuration and creates a corresponding MiMiC database of SIO Tags and blocks. Once the database has been created in MiMiC, the user can start communications with the Visualization Gateway, reading HIMA output signals and writing feedback to HIMA input signals. The current release of this driver does not support Freeze/Snapshot/Restore capability. This capability has been culled temporarily and will be supported in a subsequent maintenance release of MiMiC.

5. **Enhanced Simulation Studio.** This application has been significantly enhanced. The main enhancements are as follows:

Undo/Redo Model changes The application supports, by default, 50 changes which can be undone or redone. User can modify this to a maximum of 100 changes.

Zoom The application supports zoom in and zoom out capability. Zoom out reduces the displayed image to a minimum of 30%. Zoom in enlarges the displayed image to a maximum of 200%.

Function Block Resizing Users can now select a function block and change its size horizontally or vertically. Horizontal size change is particularly useful when a function block has a long name.

6. **Enhanced Component Studio.** This application has been significantly enhanced. The main enhancements are as follows:

Backup file creation When a graphic view file is opened, Component Studio now automatically creates a backup. Thereafter, every 5 minutes, an auto save backup is created. The backup files can be put into service in case of data loss.

OTM launch Users can now select and launch configured OTM Scenarios. Users are presented a list of scenarios from which one is selected. The selected scenario is loaded into the OTM engine. This also launches the OTM scenario view window. Users can control the scenario from this window.

Snapshot Interface Snapshots are configured as part of the MiMiC Explorer. From Component Studio, users can select a given snapshot definition and perform the freeze/snapshot/restore functions.

Ad Hoc Failures Graphic objects can be linked to Model blocks in the MiMiC modeling system for both runtime data, and OTM functionality. When an object is linked for OTM functions, users can simply right-click the object and select to fail the underlying modeling block. An OTM Scenario does not need to be used to generate failures.

Corrected Issues

1. **Simulation Studio**
Vapor Flow block Corrected the block to include missing KFactor parameter link point.
- Copy/Paste** Corrected Copy/Paste issues for Conditional and Material blocks.
- Online button** Corrected issue where Simulation Studio would crash when the online button was clicked (because Simulation Studio was already online).

2. **Simulation Engine**
 - PCI Block** Corrected block to properly handle input pulses/sec; and RATE calculation when high resolution counter is configured.
 - Block input from two sources** Corrected the case where a block would get configured with a single input, but with two wires coming from two sources. This caused the engine to crash.
 - IPARAM Units** Corrected units propagation for IPARAM blocks.
 - PVnRT Block** Corrected Vapor Mass units for the block. The vapor mass was always reported in Moles. It should have been reported in mass units, e.g. grams.
 - Time rollover** Corrected time rollover calculations. Affected blocks are First order Filter, Second order Filter, Hysteresis, PVnRT, Mixing, Retentive Timer, Derivative, Loop Tieback, Integrator, Timer, Analog Input, Calc-Deriv, and Calc-Integ.

3. **VIM Communications Bridge**
 - VIM Status** Corrected issue where the VIM bridge was writing its diagnostics message strings into an incorrect simulation node.

4. **Diagnostics**
 - Node Status** Corrected issue where simulation node online status was not being reported correctly.

Known Issues with MiMiC v3.1 in the Multi-User Environment

1. **VIM Commissioning** It is recommended that VIM configuration, and subsequent commissioning/decommissioning, be done from a single designated Windows Server Session, for example, on the Server Console. This methodology avoids current status update issues in the MiMiC user interface.

2. **Global Registers** In the Calc blocks, you can read the full range of global registers (Gx\$0001-Gx\$4096, where x is B, I, L and F). However, when writing to these global registers, the parse engine returns an error for any register above 255. For Example: GF\$1234 := 3.14159 with not parse correctly. But OUT_1 := GF\$1234 will parse and work correctly. The workaround for this is to use OPARAM blocks to reference any global register above 255.

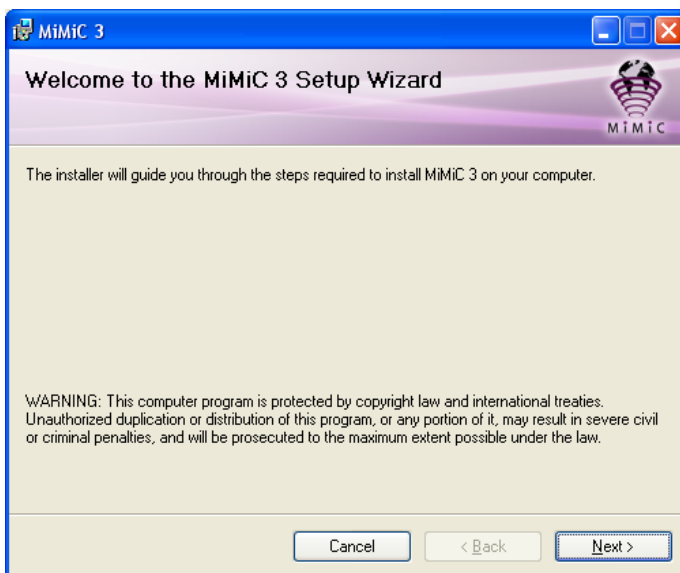
3. **MiMiC Diagnostics** Communications bridge and VIM error log messages can only be picked up by a single Diagnostics session. Consequently if multiple users elect to error logging, they may not get the messages as expected.

4. **Object Renaming in MiMiC Explorer** When one user renames an object in the MiMiC Explorer, other users have to press F5 to update their MiMiC Explorer tree in order to see changes made by the first user.

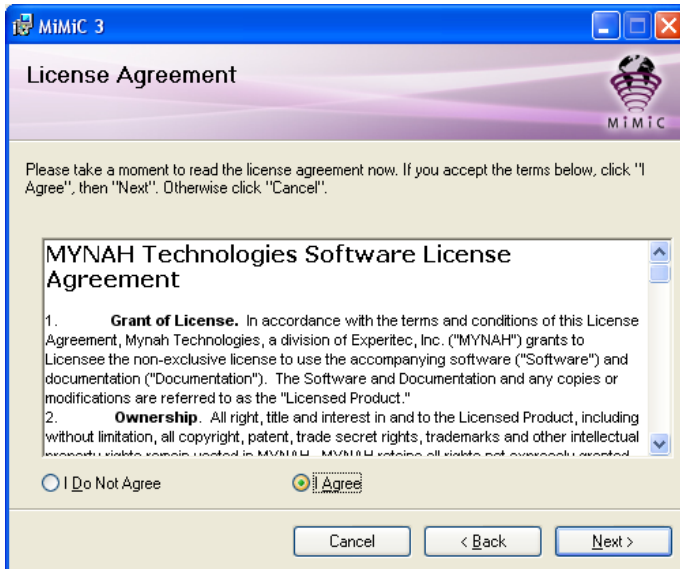
Updating / Installing the MiMiC 3.1.0 release

New user must first receive the complete MiMiC distribution CD, which contains the core SQL database, .NET installation and MIMIC license files. Existing users can download the 3.1.0 release from the [MiMiC Software Distribution site](#). The release is available as an MSI file. To install it, download and save the MSI file into a temporary folder, then double-click it from the Windows File Explorer. Add the update to the existing MiMiC folder by responding to the Installation Wizard prompts as seen below:

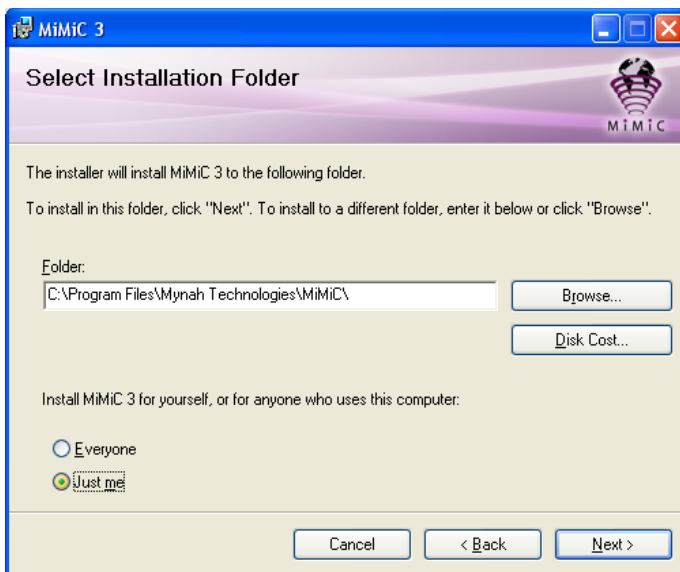
Step 1: Click **Next**.



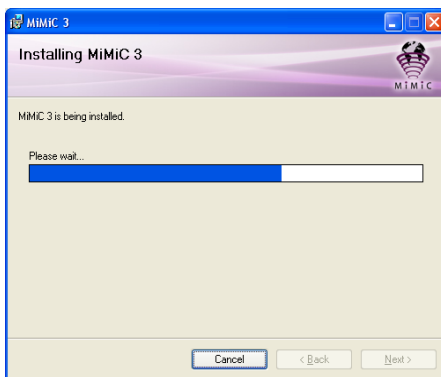
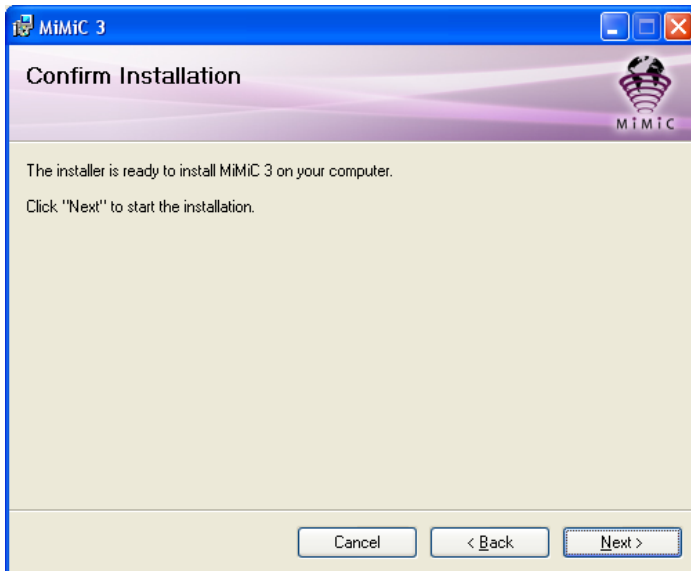
Step 2: Select **I Agree** and then click **Next**.



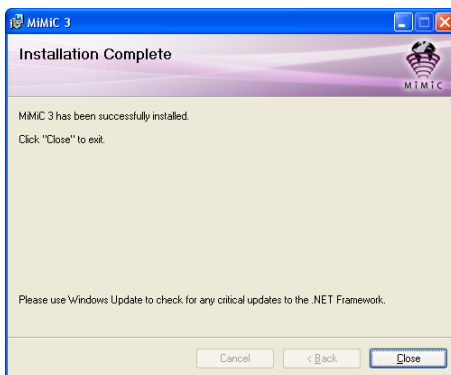
Step 3: Browse to the existing MiMiC folder, then click **Next**.



Step 4: Finally, click **Next**.



Step 6: Installation is complete.



HOW TO CONTACT US:

For more information about [MiMiC Process Simulation Software](#), please contact us at:

[MYNAH Technologies](#)

504 Trade Center Blvd.

St. Louis, Missouri 63005 USA

+1.888.506.9624 (North America)

+1.636.681.1555 (International)

+1.636.681.1660 (Fax)

Email:support@mynah.com

<http://www.mynah.com/>

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