Mimic™ Field 3D

- Protect your assets, empower your people

- Plan migration and turnaround activities

- Recreate communication between control room and field operators

- Start production earlier and ensure operational readiness

- Leverage existing CAD configuration

An immersive training experience powered by the Emerson Digital Twin.

Introduction

Emerson's Digital Twin portfolio includes a virtual reality (VR) technology offering for training, planning and operations support. Mimic™ Field 3D provides a unique training experience comprised of a complete Digital Twin with a field immersive environment. The solution provides a realistic way to develop operations skills without the need for actual unit operation exposure or even before the plant is built. First principle power modelling in Mimic is used to provide a highly realistic operations environment.

Mimic Field 3D leverages existing industrial 3D CAD models of your facility and equipment, providing a unique ability to efficiently develop an immersive and interactive training infrastructure. Laser scans or photographic surveys of the plant can also be used as inputs in developing an application.

Realistic scenarios can be configured to support development of deeper knowledge of operations and maintenance activities in the facility. Mimic Field 3D can be deployed on multiple devices (headset, screen or dome) to begin training operators in the field on startup, shutdown and other infrequent critical operations.

Benefits

Protect your assets. Provide a high-level overview to maintenance personnel regarding actual status and asset location support of plant equipment.

Empower your people. Train field operators safely, without deploying them to dangerous, costly or hostile environments by applying Emerson's 3D simulation technology.

Plan migration and turnaround activities while reducing risk, validating maintenance procedures, and minimizing plant downtime.

Recreate communication between control room and field operators. Leverage the power of the Digital Twin and Mimic Field 3D to train operators in the field and in the control room for truly integrated operations management.

Start production earlier and ensure operational readiness by partnering with Emerson to train operators in the field environment before or during the plant construction.

Leverage existing CAD configuration by using tools available to speed up model development.

Platform for automated, auditable learning for a new generation of operations personnel.

Scalable solution which can evolve as needed and be applied to all industries.

EMERSON™

Product Description

Emerson's Mimic Field 3D provides an interactive, virtual 3D environment of your facility, powered by the first principles technology of Mimic Simulation Software.

Mimic Simulation Software

Emerson's Mimic Simulation Software provides accurate and real-time simulation of plant behaviors. Made for users with process automation experience, not simulation experts, Mimic automatically integrates with DeltaV or other offline control systems. Use the exact same operator graphics and controls to test configurations and train new or inexperienced operators. Mimic Field 3D can be added to any Mimic system current on Guardian Support for Mimic service.

Components of Mimic Field 3D

Module Editor*

The module editor provides configuration and engineering functionality which allows the user to modify existing 3D simulation and configure training and maintenance scenarios.
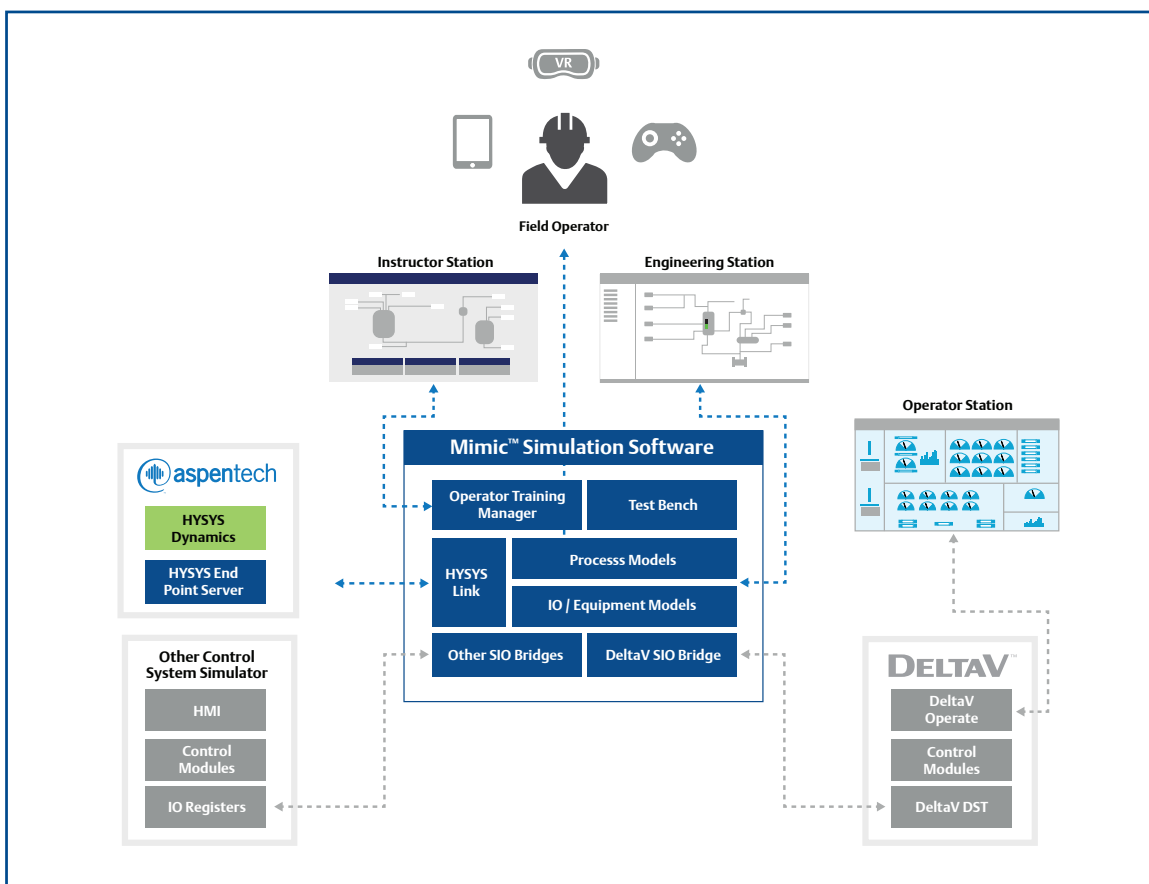
Run-Time Client*

The Run-Time Client provides run-time functionality for a single workstation. It allows the 3D simulation to be viewed through different configurations such as a large screen with game pad, VR headset, touch-enabled tablet/screen, or stereoscopic display.

The Module Editor and Run-Time client have the option of being purchased as a one-time perpetual license or as an annual renewable license. Guardian Support is included in the first year of the perpetual license and will need to be renewed for the subsequent years. Guardian Support is included in the renewable licensing.

Module Editor and Run-Time Client are proprietary marks of Kairos3D s.r.l.

Mimic Field 3D Architecture

Specifications

Operating System	Windows 10 Professional, 64bit
Processor	Latest generations CPU (Intel Core i7 or i9)
RAM	16GB DDR4
Hard Disk Space	Minimum of 200GB of free disc space
Graphics Board	nVidia GeForce GTX 1070 with 8 GB of dedicated video memory

Ordering Information

Contact your local Emerson Service Representative for more information or a quote for Emerson's Mimic Field 3D.

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🌐 **www.emerson.com/mimic**

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