DeltaV™ Mimic Field 3D

- Protect your assets, empower your people
- Plan migration and turnaround activities
- Enhance 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

DeltaV™ Mimic Field 3D provides a unique training experience comprised of a complete Digital Twin with a field immersive environment for training, planning and operations support. 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 principles 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 your 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 Mimic'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.

Product Description

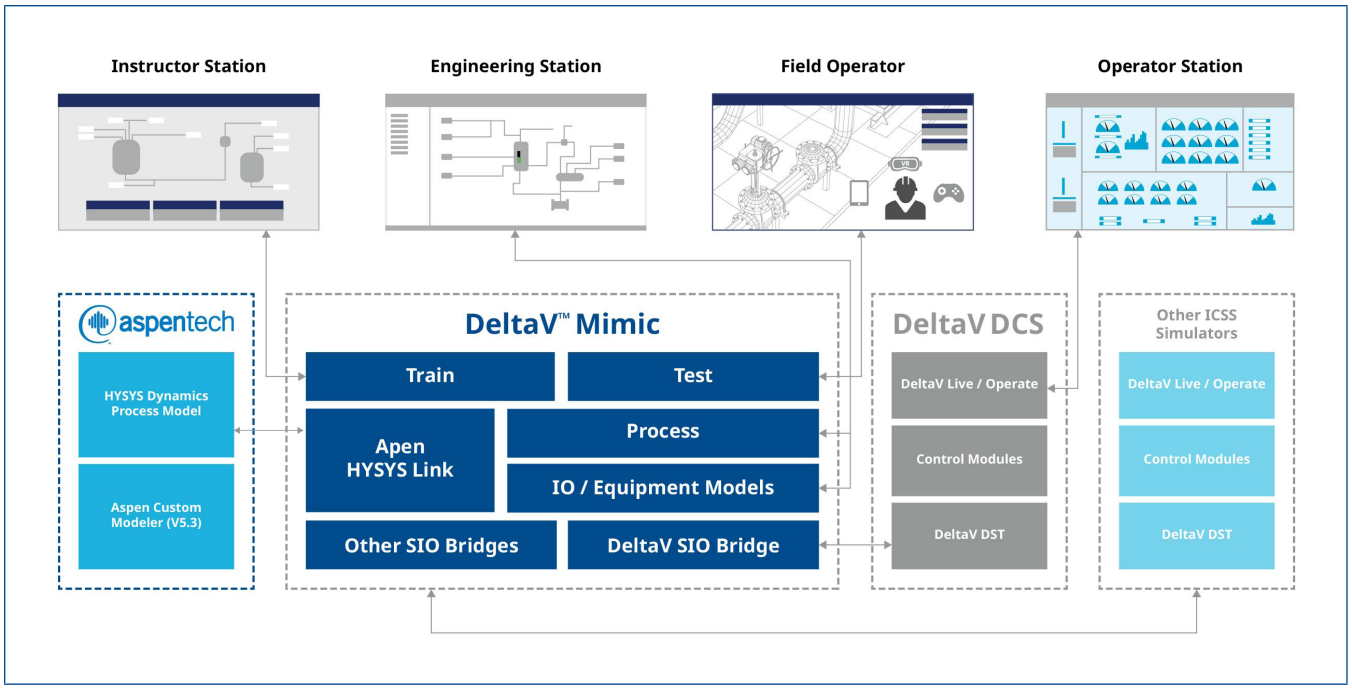
DeltaV Mimic Field 3D provides an interactive, virtual 3D environment of the facility, powered by the first principles technology of Mimic simulation software. Mimic provides accurate and real-time simulation of plant behaviors. Made for the end-user or integrator with process automation experience, not just simulation experts, Mimic integrates easily and automatically with your off-line control system.

Create a digital replica to gain insights and deliver value across the lifecycle of your facility. Use the exact same operator graphics and controls to test configurations and train new or inexperienced operators.

Components of Mimic Field 3D include:

- **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 –** 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.

Architecture



Specifications

Operating System	Windows 11 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

Product Support

Mimic Product Support is delivered through Guardian™. Guardian is Emerson's digital platform for addressing the end-to-end lifecycle needs of automation & control software and asset performance management solutions. The Guardian digital experience enables users to quickly connect to product support; securely manage subscriptions; get intuitive views into system health; and explore additional software and services that propel performance.

Ordering Information

DeltaV Mimic Field 3D can be added to any Mimic system current on Product Support. To purchase, extend, or expand a license, please contact your Emerson Sales Representative.

Related Products

- DeltaV
- DeltaV Mimic Foundation
- DeltaV Mimic Process
- DeltaV Mimic Test Bench
- DeltaV Mimic Train

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