

New for V7

Aspen OTS Framework

Best-in-class technology to configure and build Operator Training Simulator applications

AspenTech has a rich heritage in the Operator Training Simulator (OTS) market and offers a single integrated platform for Process Training and Operator Training Simulators using best-in-class software components. This technology is used by a network of AspenTech partners to build and deploy Process Training and OTS applications for joint customers. *Aspen OTS Framework* is a core element of AspenTech's aspenONE[™] Process Engineering applications.

Key Benefits

Over 200 OTS applications have been built using AspenTech solutions. AspenTech's next-generation OTS solution leverages proven technologies with new software advancements.

- Improve safety and reduce risk while maximizing the value of process models in operations throughout the plant lifecycle.
- A single integrated offering for Process Trainers/OTS using best-in-class software components provides an optimum solution to meet training requirements.
- Supports the partitioning and configuration of a large dynamic process model across multiple CPUs to **improve performance through faster solution times.**
- Technology offered through partners with expertise in specific vertical and geographical markets provides a truly comprehensive solution to customers.

IIIIII Reduce Risk, Improve Plant Performance

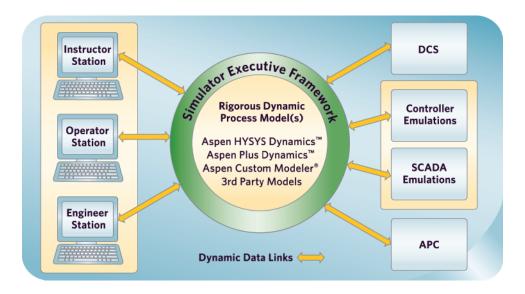
Today's process manufacturers are looking to bring the value of modeling technology into other areas of operations, specifically OTS applications. *Aspen OTS Framework* leverages AspenTech's dynamic simulation technology to help you create OTS applications that integrate with actual or emulated DCS hardware and control systems. Companies have used these models to train control room operators and plant engineers in the process and control behavior of the plant. *Aspen OTS Framework* is an effective way of managing operations, improving safety, reducing cost, and preventing unscheduled downtime.

IIIIII Key Technical Features

- Dynamic Simulation Process Models are the core of an OTS application. Aspen HYSYS Dynamics[™] and Aspen Plus Dynamics[™] support modeling applications across the entire lifecycle of a plant, from steady-state design to offline engineering studies to on-line operational models.
- Simulator Executive Framework provides a configuration mode used to set up all of the required data links between the dynamic model(s) and the other components of an OTS application. This framework also coordinates and synchronizes the integration of the dynamic models, and manages the exchange of stream data and commands between the various OTS components.



- Data Communication Links handle the exchange of data and commands and are based on OPC technology. OPC, or OLE for Process Control, is an industry specification that defines a standard interface for allowing applications to access data from a variety of process control devices. OPC is fast and can handle the very large data transfer rates required for OTS applications.
- Control and SCADA Emulators. Many software packages, often available from the DCS vendors, can translate and emulate the plant's actual control strategies into modules that can be used within the OTS system without the need to buy a replicate DCS system, thus reducing the OTS cost significantly.
- User Interfaces support different views of the application for operators, engineers, and training instructors. For operators, the OTS application should look and behave like the plant's actual control system. Operator training simulators either use the DCS console connected to the training simulator or an emulation of the operator's console. The instructor station allows an instructor to interact with the training simulator while the operator is being trained.



IIIII aspenONE Process Engineering

Aspen Process Engineering Console is a key component of *aspenONE* Process Engineering for the process industries. *aspenONE* Process Engineering is an integrated lifecycle solution – from conceptual design through to plant start-up and operations support – enabling you to model, build, and operate safer, competitive, and more reliable process plants. Companies are able to reduce capital and operating costs, increase engineering efficiency and quality, and accelerate time-to-market with payback in months instead of years.

About AspenTech

AspenTech is a leading provider of award-winning process optimization software and services. AspenTech's integrated aspenONE[™] solutions enable manufacturers to reduce costs, increase capacity, and optimize operational performance end-to-end throughout the engineering, plant operations, and supply chain management processes.

For more information, visit www.aspentech.com.

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