

Aspen Online Deployment

Deploy simulation models online—quickly and easily—to improve process operations

Aspen Online Deployment enables the use of models in upstream and downstream process operations for a wide range of real-time process monitoring, soft sensor, and operator advisory applications. It conditions online plant measurements and executes the models on a periodic schedule. The result is a process of continuous improvement, driving operational excellence across asset operations.

Key Technical Features

- **Automatic periodic execution** of process models without programming
- **Built-in data conditioning** and steady-state detection ensures model predictions are based on reasonable inputs
- **Easy links** to model variables
- **Browse plant data** tags from any OPC, Aspen Cim-IO™, or Aspen Process Data™ server and drag-and-drop tags onto model variables to create links
- **Custom calculations using AspenCalc's™** powerful scripting and engine to improve online applications
- **Compatible with Aspen Process Explorer™, Aspen Web.21™, or any other plant information management system**, enabling users to monitor and analyze online model predictions from the desktop or custom web pages
- **Includes Aspen Production Control Web Server™** to monitor the application through a pre-packaged web interface
- **Based on the same robust real-time execution platform** from AspenTech used for deploying Advanced Process Control (APC) systems

|||||| Leveraging Process Models to Create Added Value

Simulation models are powerful tools for process design and retrofits, yet many companies fail to use these models beyond the design process. By placing models online, companies can access a wealth of process understanding within the models for day-to-day plant operations.

In addition, with *Aspen Online Deployment* engineers can easily deploy and maintain the models without programming, while operators can fully exploit these same models in managing daily operations. It runs automatically 24/7, gathering data from the DCS, Aspen InfoPlus.21® or other data historians, and supports AspenTech's main process simulators. Companies are able to perform a number of activities such as inferential sensing and performance monitoring, bringing new levels of enhancements to the company's bottom line.

|||||| Reported Application Benefits

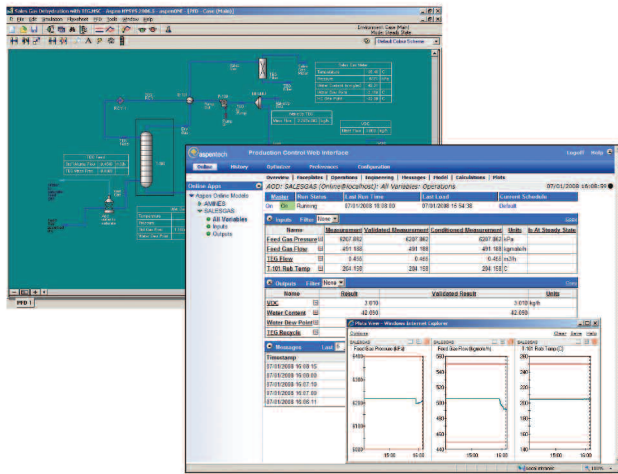
- \$20 million annual savings in E&P operations through online monitoring
- Up to \$4 million in annual margin improvement from energy savings and increased capacity from online exchanger performance-monitoring applications
- 10% profit increase from an FCC-monitoring application
- Months of manpower savings by avoiding the need to use and support programming tools to accomplish similar results

Added Value of Integration

Aspen Online Deployment is tightly integrated with other aspenONE® Process Engineering solutions:

- Aspen Plus®, including Aspen Polymers, and Aspen Rate-Based Distillation
- Aspen HYSYS®, including Aspen HYSYS Dynamics™, Aspen HYSYS Upstream™, and Aspen HYSYS Petroleum Refining
- Aspen Custom Modeler® and related products including Aspen Adsorption and Aspen Chromatography® (all run modes are supported)
- Aspen Exchanger Design and Rating, including Aspen Shell & Tube Exchanger, Aspen Air Cooled Exchanger, Aspen Plate Exchanger, and Aspen Fired Heater

Aspen Online Deployment can also import variable definitions exported from Aspen Simulation Workbook™, enabling a smooth transition from on-demand applications to real-time online applications.



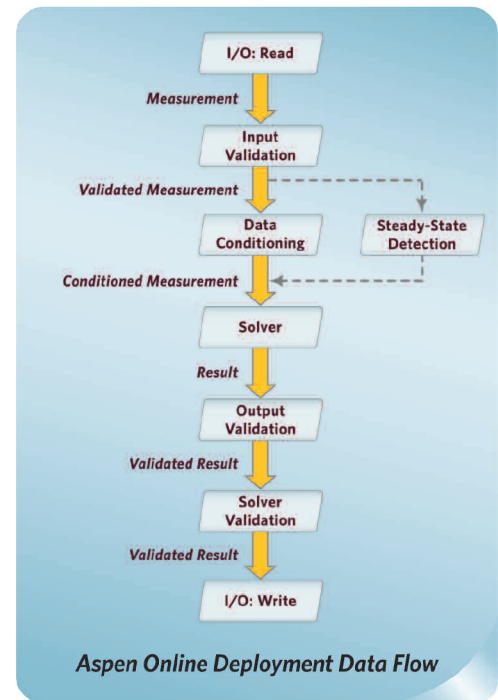
View **Aspen Online Deployment** performance and results on the web with Aspen Production Control Web Server (PCWS).

About Aspen Online Deployment

Aspen Online Deployment is a key component of aspenONE Engineering, aspenONE Advanced Process Control, and aspenONE Production Management and Execution. Through its integrated infrastructure, companies are able to extend the value of their simulation models across engineering and operations.

About AspenTech

AspenTech is a leading supplier of software that optimizes process manufacturing—including oil and gas, petroleum, chemicals, pharmaceuticals and other industries that manufacture and produce products from a chemical process. With integrated aspenONE solutions, process manufacturers can implement best practices for optimizing their engineering, manufacturing and supply chain operations. As a result, AspenTech customers are better able to increase capacity, improve margins, reduce costs and become more energy efficient. To see how the world's leading process manufacturers rely on AspenTech to achieve their operational excellence goals, visit www.aspentech.com.



Worldwide Headquarters

Aspen Technology, Inc.
200 Wheeler Road
Burlington, MA 01803
phone: +1-781-221-6400
fax: +1-781-221-6410
info@aspentech.com

EMEA Headquarters

AspenTech Ltd.
C1, Reading Int'l Business Park
Basingstoke Road
Reading UK
RG2 6DT

phone: +44-(0)-1189-226400
fax: +44-(0)-1189-226401
ATE_info@aspentech.com

APAC Headquarters

AspenTech - Shanghai
3rd Floor, North Wing
Zhe Da Wang Xin Building
2966 Jin Ke Road
Zhangjiang High-Tech Zone
Pudong, Shanghai
201203, China

phone: +86-21-5137-5000
fax: +86-21-5137-5100
apac_marketing@aspentech.com