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Omega Simulation Releases Enhanced Version of OmegaLand Integrated Dynamic Simulation Environment
–With a revamped user interface and improved engineering efficiency–

Omega Simulation Co., Ltd., a subsidiary of Yokogawa Electric Corporation, announces the February 1 release of OmegaLand V3.1, an enhanced version of the OmegaLand integrated dynamic simulation environment. OmegaLand is a core element of Omega Simulation's plant training simulator.

Development Background

In the oil, natural gas, petrochemical, chemical, and other industries, the number of skilled operators continues to decline each year. As a result of the pressing need to train new operators, interest has grown in plant operator training systems. Omega Simulation's OmegaLand integrated dynamic simulation environment enables the construction of virtual plant models that can be used not only for the training of plant operators but also for the study and verification of chemical processes and the design of new processes. Thanks to its ability to precisely reproduce plant operations based on the processes at actual plants, OmegaLand has won wide acclaim and has been a best seller around the world since its release in 2000.

OmegaLand consists of the Visual Modeler plant dynamic simulator and a variety of functional modules including a graphic module for the on-screen display of plant operations and a simulation control module. With the assistance of an engineer, these modules can be combined to construct a system that meets the needs of each user.

With this latest release, the user interface has been updated so that each of the functional modules can be operated using the same integrated environment, thereby improving engineering efficiency. To ease the process of system engineering, three separate functional module packages are available.

Enhancements

1. Improved engineering efficiency

The user interface has been updated to allow users to operate different functional modules using the same integrated environment. Previously, engineers had to launch multiple functional modules before they could carry out a task; with this new version, tasks can all be easily executed on a single screen. This eliminates the

need to input data for each functional module, thereby reducing the likelihood of human error and thus improving the quality of the simulation system. Operability has also been improved by standardizing screen design based on Windows® 7 and Windows® 10.

2. Three functional module packages

Three functional module packages are available to meet a variety of customer needs. These are OmegaLand Trainer (package for plant operation training), OmegaLand Educator (package for studying process principles for plant operation), and OmegaLand Solver (package for solving equation models). Each includes the OmegaLand Visual Modeler plant dynamic simulator as the core module. OmegaLand Visual Modeler is also sold separately.

3. Easy modification

Previously, when building and tuning a virtual plant model to reproduce the behavior of a plant, engineers had to wait for the simulation to complete before modifying the program. With the new version, the simulation can be paused at any time if a problem is encountered with the model; once the program is modified, the simulation can be continued. In addition, the graphics and instruction functions have been modified to improve operability.

Major Target Markets

Oil and gas, petrochemicals, chemicals, electric power, and water treatment, and other industries

Main Applications

Plant operator training, examination and analysis of production processes, examination and verification of instrumentation systems, and process training for operators and engineers

For more information

http://www.omegasim.co.jp/contents_e/product/ol/

About Omega Simulation Co., Ltd.

Omega Simulation Co., Ltd. was established in April 1997, bringing together Yokogawa's plant control system know-how and Mitsui Chemicals' process simulation technology. Yokogawa has an 85.1% stake in this company, with the remainder held by Mitsui Chemicals. The company is engaged in the development, sale, and maintenance of training simulators and software solutions for plant analysis, operation, and control.

About Yokogawa

Yokogawa's global network of 92 companies spans 59 countries. Founded in 1915, the US$3.7 billion company engages in cutting-edge research and innovation. Yokogawa is active in the industrial automation and control (IA), test and measurement, and aviation and other businesses segments. The IA segment plays a vital role in a wide range of industries including oil, chemicals, natural gas, power, iron and steel, pulp and paper, pharmaceuticals, and food. For more information about Yokogawa, please visit www.yokogawa.com.