

Honeywell Improving Plant Performance with Simulation

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Honeywell's new UniSim operations product range, a best in class fusion of Shadow Plant, and the acquired Hyprotech software and the AspenTech's OTS business, has proved hugely successful in the market place.

In this talk, information will be presented on the improved simulation lifecycle resulting from the acquisition and on the software architecture that has been formulated to capture the capabilities of both Honeywell's and AspenTech's training simulator technologies. UniSim's unification of the simulation needs for design, operations, and optimisation to deliver a true simulation lifecycle will be examined, including the early formulation and evaluation of Advance Process Control Applications in the process models, and the multi-functional capabilities of the software to support both engineering and OTS requirements.

We will examine the motivations for purchasing Operator Training Systems, and also the components of the UniSim Operations Suite, used to delivery these systems. We will highlight how one of these principle components the simulation framework offers links for integrated use of the simulators with Honeywell TDC, TPS and Experion control systems and with DCS from many other suppliers including Yokogawa, Emerson, Foxboro and ABB. Similarly facilities are provided for emulation of various ESD systems including FSC, Triconex and HIMA.