

Press release



FOR IMMEDIATE RELEASE

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Process Systems Enterprise Limited

PSE releases gPROMS v3.0

Major new version of world's leading Advanced Process Modelling environment

Process Systems Enterprise (PSE), today launched major new version 3.0 of its world-leading gPROMS Advanced Process Modelling (APM) environment, at the PSE Annual Meeting in London. v3.0 is a major milestone that introduces graphical working at all levels, plus many new features supporting gPROMS' central role in Model-Based Innovation.

Dr Christian Schulz, gPROMS Product Manager, says "v3.0 sets out to make a difficult task – creating, validating, executing and maintaining first principles models of complex processes – much easier. There are major enhancements to usability at all levels, leading to greater productivity for all types of gPROMS user; significant enhancements to gPROMS' already technology-leading model validation capabilities, to assist easy creation of high-accuracy first principles models of processes for any industry sector; and enhanced interoperability, to facilitate the use of gPROMS Advanced Process Models within in a wide range of popular engineering software environments."

The single most important change in Version 3.0 is the move to a largely graphical environment, while retaining the openness, flexibility, modelling power and auditability for which gPROMS is renowned. New and enhanced facilities for both model developers and users include a full graphical flowsheet editor, with the ability to click on a unit and define specifications, set parameters and display results. In addition, developers can now create custom reports for any model, for quick, formatted display of key information. The new "port" structure replaces stream types to provide a much more powerful and flexible stream architecture than previously, which helps in building truly generic model libraries.

Further enhancements aimed at model users include integrated results management facilities, which make it much easier to access results. The comprehensive "Case" structure provides instant plot or table display of any model variable. A "results flowsheet", provides instant graphical access to all unit and stream information, displayed via customisable report templates and stream tables, with a slider providing rapid progression through the time domain for dynamic data. The Process Model Library has been updated to include dialog boxes and reports for all models.

V3.0 has significantly enhanced *model validation* facilities to streamline the essential step of adjusting model parameters to laboratory or plant data for construction of truly predictive models. The resulting parameter information can be used to optimise subsequent experimentation – a key activity in Model-Based Innovation activities such as new catalyst design. Facilities include a completely new integrated graphical interface for definition and management of both parameter estimation and experiment design activities, to streamline workflows, plus faster and more powerful solution.

Several new features reinforce APM as a key technology for capturing corporate knowledge and deploying it across the organisation. The Public Model Interface (PMI) makes it easy to formally publish gPROMS models for use by other modellers. Enhanced model export facilities simplify the packaging and export of gPROMS models to execute within third party software environments such as Mathworks Simulink®, Aspen Plus™, Unisim®, PRO/II® and Hysys®, and Honeywell's Shadowplant OTS environment.

Says Dr Schulz "With v3.0 we believe that we have managed to combine the ease-of-use of traditional steady-state flowsheeting tools with all the power and flexibility of an equation-oriented flowsheeting package".



Notes for Editors

A graphic is available for download from www.psenderprise.com/pressroom.html.

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About gPROMS

gPROMS[®] is the world's leading Advanced Process Modelling (APM) environment. It is used to provide high-quality information for decision support in innovation, design and operation across all sectors of the process industries, with particular focus on modelling of complex operations such as reaction, crystallisation and polymerisation. Companies apply gPROMS to reduce time-to-market for new processes or products, improve designs, enhance production, reduce capital and operating expenditure and comply more effectively with safety, health and environmental requirements.

The gPROMS ModelBuilder provides a complete model development, validation and execution platform for modellers of all levels of experience. The gPROMS Objects allow Advanced Process Models developed and validated in gPROMS ModelBuilder to execute within a wide range of engineering software, including common process flowsheeting environments, CFD software, control design environments and automation and purchasing systems.

gPROMS is applied across the 'process lifecycle', from laboratory experimentation, through process and detailed design, to online operation. PSE also provides gPROMS as a third-party APM and solution engine to channel partners in the automation, operator training and process simulation markets. PSE is committed to maintaining gPROMS at the leading edge of modelling technology through a policy of Continuous Innovation.

About Process Systems Enterprise Ltd

PSE (www.psenderprise.com) is one of the world's foremost providers of advanced modelling technology and services to the process manufacturing industries. The company specialises in Advanced Process Modelling software and Model-Based Innovation services, which use high-accuracy mathematical models of process equipment and phenomena to provide high-quality information for decision support in process innovation, design and operation.

Use of PSE's technology and services results in faster innovation, improved designs of processes and products, enhancement of existing operations, better economic planning of complex operations and more effective R&D and experimental programmes. Results are achieved with relatively low investment compared to alternative approaches (where these exist), with rapid return on investment and transfer of modelling know-how to industry.

PSE has established itself as a leading independent high-tech provider to a growing, global customer base that encompasses the world's largest and most innovative process manufacturing and automation companies in the chemical, petrochemical, upstream oil, refining, food & beverage, consumer products, pharmaceutical and energy sectors. Customers are served by offices in the UK, USA, Germany and Japan, and agencies in China, India and Korea.

The company actively develops and applies new modelling technologies, with approximately 40% of annual budget spent on R&D. The company won the prestigious UK Queen's Award for Enterprise: Innovation 2001 and for two years running was listed in the UK TechTrack 100 list of fastest growing technology companies.