Powersim Software

Studio **8**

Studio **8** Editions

		Enterprise	Expert	Professional
MODELING FEATURES				
Characteristics of tool				
	Stock and flow modeling with both continuous and discrete simulation	x	x	x
	Project Tree Window for a clear overview of the structure of the simulation project	x	x	x
	Calendar-dependent and calendar-independent simulations	x	x	x
	Bank, fiscal and Gregorian calendars	x	x	x
	Multi-lingual models (all Western and Asian languages)	x	x	x
	Multiple diagrams/sheets when constructing models	x	x	x
	Advanced Equations View	x	x	x
	Use units with all variables, they are calculated, gives extra control and document your model	x	x	x
	User-defined and derived units as well as built-in physical units which you may customize	x	x	x
	Customized and built-in currencies and currency conversion	x	x	x
	Multiple simulations per model	x	x	x
	Export and import of variable values from clipboard/external files	x	x	x
	Shared (common for all simulations) and Private Diagrams (unique for one simulation)	x	x	x
	Password protection of models - Full protection, Run and view only, Run only	x	x	
Modeling features				
NEW	Series variables can hold time series values which are calculated before running a simulation	x	x	x
NEW	Start-up variables can be given an input value only before running a simulation	x	x	x
NEW	Special functions to handle working with Series Variables	x	x	x
NEW	New functions; an arrayed Net Present value (ARRNPV) and Internal Rate of Return (IRR)	x	x	x
NEW	Function indicators in diagrams - new symbols for Series Variables	x	x	x
	More than 200 built-in functions + including new functions to handle Series Variables	x	x	x
	Instant calculation of formulas without running the model	x	x	x
	Powerful array syntax - up to 6-dimensions, defined by numeric or enumerated ranges	x	x	x
	Permanent variables that remember user input from one simulation to the next	x	x	x
NEW	Collaboration documenting which modelers last changed a variable, unit or range	x		
	Collaboration between several modelers through components and submodels	x	x	x
	Hierarchical modeling with an unlimited depth of submodels	x	x	x
	Layout, alignment, grids and similar features to support nice-looking diagrams	x	x	x
	Snapshots of variables as well as sharing of variables across multiple sheets	x	x	x
	Full zoom capabilities for diagrams	x	x	x
	Levels can be defined as reservoirs	x	x	x
	Number formatting	x	x	x
Quality assurance during modeling				
NEW	Performance Monitoring to help optimizing the simulation performance	x		
	Auto reports (number/graph) on variables for development and debugging of models	x	x	x
	Search for dependencies between variables - tracing of relationships	x	x	x
	GoTo Variable (find all instances of variables in diagrams and equations)	x	x	x
	Go To undefined and problematic variables	x	x	x
	Plural and singular names for units of measurement	x	x	x
	Integrated unit of measurement system ensures unit consistency in models	x	x	x
Optimization and risk analysis				
	Optimization	x	x	
	Risk Management	x	x	
	Risk Assessment and Sensitivity Analysis	x	x	
	Scenario Control	x	x	x
	Edit series of decisions in the Time Graph	x	x	x
Data Connectivity				
	Connection to SAP® NetWeaver BI (using the SAP BI Dataset)	x		
	Off-line/On-line possibilities for SAP BI Dataset	x		
NEW	Connection to databases like Oracle, SQL Server and Access (using the Database Dataset)	x		
NEW	Available periods for Database Dataset now also minutes and hours	x		
	Connection to Microsoft® Excel (using the Spreadsheet Dataset)	x	x	x
	Connection to Microsoft® Excel through the XLDATA function (drag-and-drop to import data)	x	x	x
NEW	XLDATA function now support sheets as dimension, named cell references and read text values	x	x	x
	Connection to internal Studio data (using Studio Dataset)	x	x	x
	Connection to other data sources through VB Script	x	x	x

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MODELING SUPPORT				
Built-in modeling assistance and support				
NEW	New Sample model showing use of Series Variables	x	x	x
	Wizards for creating datasets and connections	x	x	x
	Project Wizard assistance when creating new projects	x	x	x
	Tutorial on how to connect to spreadsheets	x	x	x
	Project Assistant to help in getting started creating models	x	x	x
	Active assistance system during definition of functions	x	x	x
	Assitance with units when defining flow rate	x	x	x
	Automatic access to unit and range wizards while constructing equations	x	x	x
	Support for multiple screens	x	x	x
	Context-sensitive help on all property pages and dialog boxes	x	x	x
NEW	Text-based Find and (now with) Replace in Equations view	x	x	x
	Help available in Task Window (with "How do I..." section)	x	x	x
	User interface customization (Normal and Advanced workspace schemes)	x	x	x
	Easy-to-use Function Wizard	x	x	x
USER INTERFACE AND PRESENTATION MODE				
Reports, controls and printing				
	Multiple user interface diagrams per model	x	x	x
	Time graphs and time tables with summarize possibilities (average, min, max, etc)	x	x	x
	Slider bars and gauges for both input and output	x	x	x
	Table controls for spreadsheet-like data input and output	x	x	x
	Chart controls for input and output of array values	x	x	x
	Buttons, radio buttons, check boxes, combo boxes and lists for user interface creation	x	x	x
NEW	Scatter graphs (also known as XY graphs and Phase Plots)	x	x	x
	Global definition of scales (max/min values on variables) makes all reports consistent	x	x	x
	Freeform drawing, frames and texts	x	x	x
	Use of pictures, as well as color, font and line control on all variables and objects	x	x	x
	Background screen fill with pictures, colors and patterns	x	x	x
	Enhanced page setup & printing support	x	x	x
Navigation and scenario control				
	Hyperlinks and bookmarks to link to other diagrams, files or Internet pages	x	x	x
NEW	Action buttons that also allows for execution of commands and other actions	x	x	
	Cue points to rewind simulations to a previous point in time	x	x	x
	Index variables for ranges give compact user interface diagrams when working with arrays	x	x	x
	Events and actions allow for interactive simulations	x	x	x
	Reference runs for comparing simulation results	x	x	x
	Animation of reference data in output objects when comparing multiple runs	x	x	x
Presentation Mode				
NEW	Hide the toolbar and status bar when you show a presentation	x	x	x
	Build a simulation user interface to view in Presentation Mode	x	x	x
	Web browser like navigation buttons for home, forward, backward, links, etc.	x	x	x
	Save and load scenarios in Presentation Mode	x		
	Selection of project language from Presentation Mode	x	x	x
	Printing from Presentation Mode	x	x	x
Model Distribution				
NEW	Provide a name for your project's help file for example a html documentation	x	x	x
	Construction of models to be distributed with Studio 8 Executive or Studio 8 Cockpit*	x		
	Construction of models to be distributed with Studio 7 SDK**	x		
TECHNICAL SPECIFICATIONS				
Integration, operating systems, development platform and file conversion				
	SAP Certified Integration	x		
	Microsoft® Windows*** 2000, XP, Vista or 7	x	x	x
	Import of Powersim Constructor models using a wizard	x	x	x
	Saving files with Studio 2005 or Studio 7 file format	x	x	x

* Companion products with Enterprise, to let corporate users run simulations in Presentation Mode

** SDK integrate simulations in custom-designed software applications using C++, VB, ASP, HTML, etc.

*** Studio 8 also runs in Windows on Macintosh, while connecting to Excel needs Excel for Windows

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