



Powersim Studio 9 Editions

MODELING FEATURES				
	Enterprise	Enterprise	Expert	Professional
Characteristics of tool				
Stock and flow modeling with both continuous and discrete simulation	x	x	x	x
Project Tree Window for a clear overview of the structure of the simulation project	x	x	x	x
Calendar-dependent and calendar-independent simulations	x	x	x	x
Bank, fiscal and Gregorian calendars	x	x	x	x
Multi-lingual models (all Western and Asian languages)	x	x	x	x
Multiple diagrams/sheets when constructing models	x	x	x	x
Advanced Equations View	x	x	x	x
Use units with all variables, they are calculated, gives extra control and document your model	x	x	x	x
User-defined and derived units as well as built-in physical units which you may customize	x	x	x	x
Customized and built-in currencies and currency conversion	x	x	x	x
Multiple simulations per model	x	x	x	x
Export and import of variable values from clipboard/external files	x	x	x	x
Shared (common for all simulations) and Private Diagrams (unique for one simulation)	x	x	x	x
Password protection of models - Full protection, Run and view only, Run only	x	x	x	x
New Utilizing multi-core processors, increases simulation performance - number is maximum cores	8	4	3	2
Modeling features				
Series variables can hold time series values which are calculated before running a simulation	x	x	x	x
Start-up variables can be given an input value only before running a simulation	x	x	x	x
Special functions to handle working with Series Variables	x	x	x	x
New functions; an arrayed Net Present value (ARRNPV) and Internal Rate of Return (IRR)	x	x	x	x
Function indicators in diagrams - new symbols for Series Variables	x	x	x	x
More than 200 built-in functions + including new functions to handle Series Variables	x	x	x	x
Instant calculation of formulas without running the model	x	x	x	x
Powerful array syntax - up to 6-dimensions, defined by numeric or enumerated ranges	x	x	x	x
New * Arrays allow many elements per variable, here given by max values	10 Mill.*	2.5 Mill.	0.5 Mill.	0.5 Mill.
Collaboration documenting which modelers last changed a variable, unit or range	x	x		
Collaboration between several modelers through components and submodels	x	x	x	x
Hierarchical modeling with an unlimited depth of submodels	x	x	x	x
Layout, alignment, grids and similar features to support nice-looking diagrams	x	x	x	x
Shortcuts to variables as well as sharing of variables across multiple sheets	x	x	x	x
Full zoom capabilities for diagrams	x	x	x	x
Levels can be defined as reservoirs	x	x	x	x
Number formatting	x	x	x	x
Number format now allows for displaying Blank Value for zero and to hide the unit of a value	x	x	x	x
Permanent variables that remember user input from one simulation to the next	x	x	x	x
Variable shortcuts to variables that are not present in the same diagram	x	x	x	x
Shared range element names	x	x	x	x
Dynamic ranges	x	x	x	x
XLRANGE allows dynamic ranges based on information in Excel	x	x	x	x
NORMDIST and NORMINV functions for working with normal distributions	x	x	x	x
TRIANGULARDIST and TRIANGULARINV functions for working with triangular distributions	x	x	x	x
Quality assurance during modeling				
Find connections within your model with the Dependents list and the Precedents list	x	x	x	x
See value(s) of selected variable with the Value Inspector	x	x	x	x
Performance Monitoring to help optimizing the simulation performance	x	x		
Auto reports (number/graph) on variables for development and debugging of models	x	x	x	x
Integrated unit of measurement system ensures unit consistency in models	x	x	x	x
GoTo Variable (find all instances of variables in diagrams and equations)	x	x	x	x
Go To undefined and problematic variables	x	x	x	x
Plural and singular names for units of measurement	x	x	x	x

* It is only the 64-bit edition of Premium that allows 10 Million elements per variable

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MODELING SUPPORT				
Optimization and risk analysis				
Optimization	x	x	x	
Risk Management	x	x	x	
Risk Assessment and Sensitivity Analysis	x	x	x	
Scenario Control	x	x	x	x
Edit series of decisions in the Time Graph	x	x	x	x
New Create effects for Series Variables	x	x	x	x
Data Connectivity				
Connection to SAP® NetWeaver BI (using the SAP BI Dataset)	x	x		
Off-line/On-line possibilities for SAP BI Dataset	x	x		
Connection to databases like Oracle, SQL Server and Access (using the Database Dataset)	x	x		
Available periods for Database Dataset now also minutes and hours	x	x		
Connection to Microsoft® Excel (using the Spreadsheet Dataset)	x	x	x	x
Connection to Microsoft® Excel through the XLDATA function (drag-and-drop to import data)	x	x	x	x
XLDATA function now support sheets as dimension, named cell references and read text values	x	x	x	x
Connection to internal Studio data (using Studio Dataset)	x	x	x	x
Connection to other data sources through VB Script	x	x	x	x
Built-in modeling assistance and support				
Sample model showing use of Series Variables	x	x	x	x
Wizards for creating datasets and connections	x	x	x	x
Project Wizard assistance when creating new projects	x	x	x	x
Tutorial on how to connect to spreadsheets	x	x	x	x
Project Assistant to help in getting started creating models	x	x	x	x
Active assistance system during definition of functions	x	x	x	x
Assistance with units when defining flow rate	x	x	x	x
Automatic access to unit and range wizards while constructing equations	x	x	x	x
Support for multiple screens	x	x	x	x
Context-sensitive help on all property pages and dialog boxes	x	x	x	x
Text-based Find and (now with) Replace in Equations view	x	x	x	x
Help available in Task Window (with "How do I..." section)	x	x	x	x
User interface customization (Normal and Advanced workspace schemes)	x	x	x	x
Easy-to-use Function Wizard	x	x	x	x
USER INTERFACE AND PRESENTATION MODE				
Reports, controls and printing				
Multiple user interface diagrams per model	x	x	x	x
Time graphs and time tables with summarize possibilities (average, min, max, etc)	x	x	x	x
New Movable legend for Time Graph and Chart controls	x	x	x	x
Slider bars and gauges for both input and output	x	x	x	x
Table controls for spreadsheet-like data input and output	x	x	x	x
Chart controls for input and output of array values	x	x	x	x
Buttons, radio buttons, check boxes, combo boxes and lists for user interface creation	x	x	x	x
Scatter graphs (also known as XY graphs and Phase Plots)	x	x	x	x
Global definition of scales (max/min values on variables) makes all reports consistent	x	x	x	x
Freeform drawing, frames and texts	x	x	x	x
Use of pictures, as well as color, font and line control on all variables and objects	x	x	x	x
Background screen fill with pictures, colors and patterns	x	x	x	x
Enhanced page setup & printing support	x	x	x	x

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USER INTERFACE AND PRESENTATION MODE				
Navigation and scenario control				
Hyperlinks and bookmarks to link to other diagrams, files or Internet pages	x	x	x	x
Action buttons that also allows for execution of commands and other actions	x	x	x	
New group of actions allows printing to Excel with a click on Action button or on specified event	x	x	x	
Check Condition to base actions on value of a logical variable	x	x	x	
Cue points to rewind simulations to a previous point in time	x	x	x	x
Index variables for ranges give compact user interface diagrams when working with arrays	x	x	x	x
Events and actions allow for interactive simulations	x	x	x	x
Reference runs for comparing simulation results	x	x	x	x
Animation of reference data in output objects when comparing multiple runs	x	x	x	x
Manage Dynamic Range action	x	x	x	x
Presentation Mode				
New Augment presentations with up to four presentation sidekicks with HTML content	x	x	x	x
Hide the toolbar and status bar when you show a presentation	x	x	x	x
Build a simulation user interface to view in Presentation Mode	x	x	x	x
Web browser like navigation buttons for home, forward, backward, links, etc.	x	x	x	x
Save and load scenarios in Presentation Mode	x	x		
Selection of project language from Presentation Mode	x	x	x	x
Printing from Presentation Mode	x	x	x	x
Model Distribution				
Provide a name for your project's help file for example a html documentation	x	x	x	x
Construction of models to be distributed with Studio 9 Executive or Studio 9 Cockpit*	x	x		
Construction of models to be distributed with Studio 9 SDK**	x	x		
TECHNICAL SPECIFICATIONS				
Integration, operating systems, development platform and file conversion				
New 64-bit Windows Platform Version	x	x	x	x
New Unicode application	x	x	x	x
SAP Certified Integration	x	x		
Microsoft® Windows*** XP, Vista or 7	x	x	x	x
Import of Powersim Constructor models using a wizard	x	x	x	x
Saving files with Studio Studio 8, Studio 7 or 2005 file format	x	x	x	x

* Companion products with Premium and 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 9 also runs in Windows on Apple computers, while connecting to Excel needs Excel for Windows

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