

PowerSeller[®] Advanced Architecture



Straightforward User Interface

Secondary marketing professionals find PowerSeller easy to use because the user interface is designed around the way they work. Each menu and screen display all the tools needed to perform the task at hand. The graphical user interface (GUI) is designed to minimize typing.

Data Analysis Tools

Built-in data analysis tools make PowerSeller the perfect vehicle for getting fast, answers from your data. Loans, trades, and any other information can be displayed on screen, you can choose any combination of fields to display information, filter out any irrelevant data, and sort the resulting information. The results of your analysis may be exported into other systems, in variety of file formats: text, comma-delimited, Microsoft Excel, Lotus 1-2-3, FoxPro, and others.

The pop-up Statistical Calculator computes sum, average, weighted average, maximum value, minimum value, standard deviation, and count for any numeric column in the database. Simply point at the column with the mouse, and click. Results appear instantly.

Relational Database

PowerSeller utilizes a high-performance, Relational Data Base Management System (RDBMS) that's expandable for your future needs. Intensive computations have been offloaded from workstations and executed at the database server as stored procedures. The result is a system that is extremely fast. The structure of the database is completely open. All data tables and columns are clearly defined by function. PowerSeller includes utilities to review and analyze all data tables, including their structures.

PowerSeller's loan table can be easily expanded to include any user-defined fields that you may need without need for programmers or database administrators. PowerSeller automatically synchronizes all related files, and your processing decisions can be based on these new fields.

Import/Export Mapping

Import and Export Maps allow you to establish the relationship between the incoming data and the database, with translation for date formats and upper/lower case alphanumeric data. The graphic Map Painter builds and maintains maps by using the mouse, with minimal typing. Any number of import formats can be created, for any file in the system. PowerSeller accepts data in any ASCII fixed-format or delimited file. Data can be imported into any data table in the database.

Data can also be imported in incremental mode, making frequent updates of time-sensitive information like new loans practical. Export maps complement the Import Maps and make it possible to take any PowerSeller data and format it for export to external systems.

Reporting

PowerSeller comes with a wide variety of reports for risk management, secondary marketing, data analysis, exception reporting, system usage, and auditing. All reports are available as templates for you to use as is, or as a launching point for custom reports, or modifications to existing reports.

Each PowerSeller report is concise, and is presented in an easy-to-follow manner. Reports can be viewed on screen, or printed. PowerSeller's on-screen report viewer keeps the report headings visible at all times, even as you scroll through a lengthy display. You can view two sections of the same report using PowerSeller's split screen format. Multiple reports can be displayed side-by-side for comparative analysis. PowerSeller's "drill down" feature allows you to manipulate data to view updated reports on-the-fly.

Logging

Key events in the system are recorded in the Activity Log. Error messages, file structure changes, security updates, user sign-ons, automated functions, and other critical events are noted, with date, time and operator name. The Activity Log is helpful as an audit trail tool and as a verification that unattended functions ran successfully as scheduled.

Links To Other Systems

All of your risk management and secondary marketing data is time-critical, especially the latest quotes from the financial markets. Dynamic Data Exchange (DDE) lets PowerSeller literally reach inside another program and quickly retrieve market data. PowerSeller can interface with any other program that supports DDE, including financial quote services, even your own spreadsheets. You can make user-defined adjustments to any of the retrieved quotes. PowerSeller includes an alarm system to help detect invalid incoming data.

Unattended Operation

Important functions within PowerSeller can be automated for unattended operation. Data imports, exports, pooling, risk management analysis, market data updates, reports, and more can be scheduled to take place without operator intervention. PowerSeller's exception-handling capabilities make sure that the system stays on schedule, even if problems are encountered.

Security

Security is oriented around functional groups, such as shipping, pooling, risk management, and so on. Individuals can be assigned to as many groups as needed. In turn, each group is assigned a set of screens within the system. Access may be complete, or restricted to read-only status. The list of functional groups, and access of each, and relationship between them is under your control for maximum flexibility.

PowerBuilder Development Language

PowerSeller is developed using the PowerBuilder software development platform. This, fourth-generation application development tool is fast becoming the new standard for software development, and is widely used in the financial industry. Applications written with PowerBuilder support open architectures, including the use of multiple back-end databases; are scalable and portable; offer GUI technology and connectivity within the Windows environments; provides quick techniques for accomplishing complex programming tasks and include toolsets for data administration, SQL generation, and database administration.

SQL Painter

The SQL Painter is provided throughout so that PowerSeller users can graphically build SQL (Structured Query Language) syntax wherever appropriate. This facility can be used to construct all the syntax specifications needed for the various parts of the system, without the complications of having to be intimately familiar with SQL syntax.

Not only is PowerSeller built on SQL-based front and back ends, it also supports SQL at an end-user level for specifying various customizable run-time features. Examples are specifications of loan qualifiers, loan priorities, and pool rules. SQL's universal acceptance and popularity provides a standardized way of defining such features.