

PowerZac is a highly customizable message engine with switching process and reformatting functionalities. Using Perl Scripting makes PowerZac a very flexible and extendible program, easy to fit to different business needs.

On this page, you will find more technical functionalities, the many advantages and the requirements of our PowerZac solution.

## **One system with multiple functionalities**

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### **Message and protocol converter**

Over the world different protocol rules describe the way financial transaction messages should be structured. Often different companies in various countries are using other protocol rules, which complicates the data flow. PowerZac is designed as a solution to reformat and switch this financial transaction messages as required per protocol. Furthermore, PowerZac facilitates message content mapping and extrapolation to get better insights on the transaction data. All the historical data is saved and can be accessed with a limitation in time.

### **Access controller**

The access controller is filtering the financial transaction messages and ensures the protection of the PowerZac system by granting access to only the authorized messages. The messages are transmitted through the access controller as-is, no protocol conversion is required at this level.

### **Cryptographic services**

PowerZac offers also different cryptographic functionalities: PIN reformat and verification, Message Authentication Code (MAC), EMV, PIN mailing, CVV/CVC/CSC generation and verification, Key management, ... These cryptographic functionalities are developed for IBM-cryptographic coprocessors and for Thales HSM devices.

## **Flexible system with endless possibilities and many advantages**

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### **Multi-brand**

PowerZac supports all relevant standards of major card brands, such as Visa, MasterCard, American Express, Diners, China UnionPay as well as any proprietary business scheme.

### **Operating systems and databases**

PowerZac can run on different Unix-like platforms (AIX, HP-UX, Linux) and be connected to your database backend (Oracle, DB2, PostgreSQL,...).

### **High throughput**

PowerZac is a very reliable software program with an incredibly high transaction throughput achieved by using extensive memory caching, shadow database and highly efficient core engine. This results in more than 150 (Linux) or 250 (AIX) financial transaction per second and more than 2 million transactions daily.

### **High availability**

By implementing one or more additional PowerZac systems, the system can be fully synchronized in real time and distribute the load across both systems. This ensures 24/7 operations.

### **Multi-protocol support**

The PowerZac system can provide support for any rule based protocol. Most commonly used protocols are Apacs, Visa I, Visa II, ISO-8583, SPDH, HPDH, C-TAP, EP2, EPAS, GPaD, UMF and XML based protocols.

### **Centralized and easy-to-use graphical user interface**

The user-friendly GUI allows you to monitor the health of the whole installation from one central point. Automatically generated and fully customized reports will keep you informed about all the statistics needed for your business operations. In summary, the configuration of the PowerZac system can be managed in the centralized GUI.

## Technical sheet

<i>Programming language</i>	Perl scripting
<i>Platform</i>	Intel / Linux architecture
<i>Operations</i>	Operates from RAM disk with disk backup of critical elements
<i>Security elements</i>	Incorporated firewall
<i>Architecture</i>	PowerZac system consists of different components: PowerZac core Data Management Layer Business modules Cryptographic interface Communication interfaces Additional modules: WEB based management, alerting modules

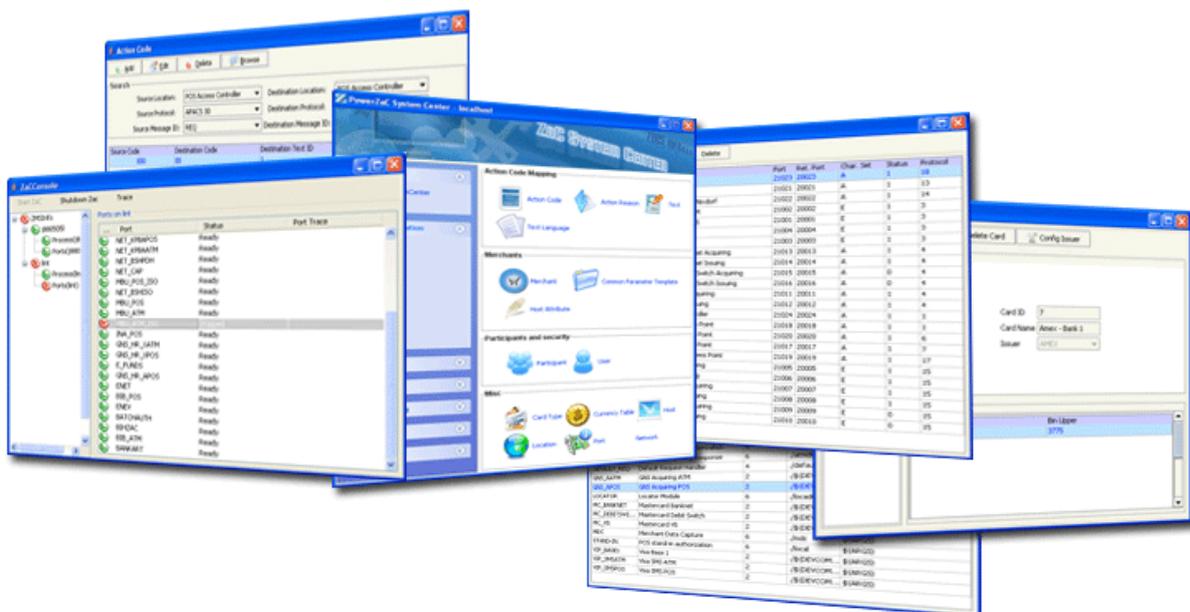


Image 1 PowerZaC GUI