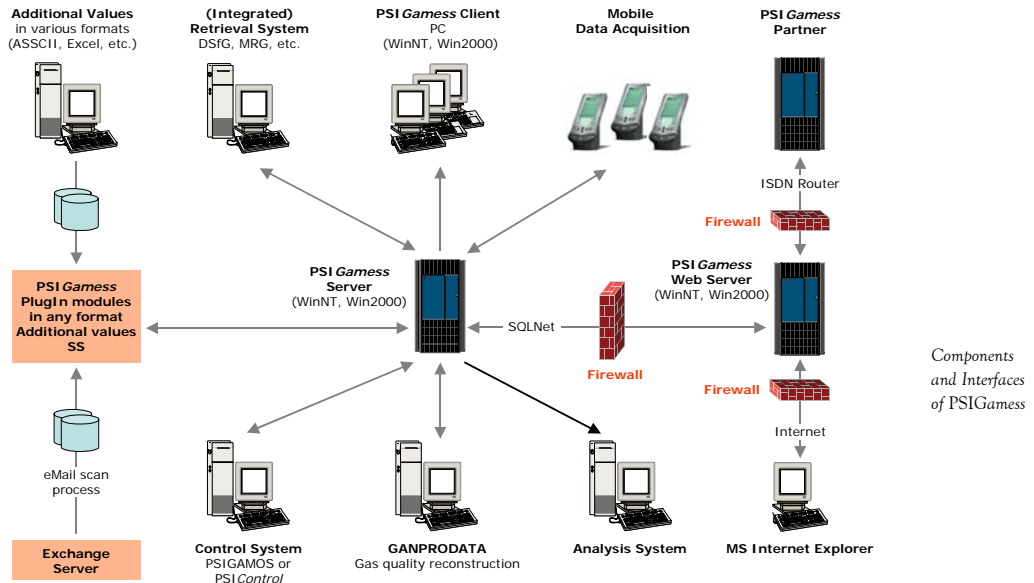


# PSIGames/IAS Gas data retrieval, processing, and distribution



PSIGames is a universally applicable and standardised solution for the processing of all relevant data for billing. It makes available processed measurement, quantity, and meter values for all subsequent systems (e.g. quantity and demand billing, control system or systems of contract partners).

For the acquisition and transfer of data, PSIGames utilises an accessible data bank and ASCII data file interface that can be easily parameterised using the user interface.

## Gas Data Retrieval

The retrieval of data is made especially easy by remote data transmission and the integral retrieval system (IAS) of PSIGames. The system ensures that a uniform standard for the retrieval of various

register systems (like DSfG, MRG, data logger, etc.) is available. This is also a clear advantage since the processing speed is determined only by the operating system.

Customer specific plug-ins allow for the automatic exchange of data with other systems via the existing interfaces.

## Gas Data Processing

The PSIGames system gathers physical values or impulse values that still require calculation from different data sources (register systems, data from ASCII or Excel files, from other data bases, from control systems, etc). It is also possible to perform manual acquisition of meter readouts and measurement values.

Parameterisation helps determine in which manner the raw data is to be processed. When there is flawed or missing data, it also determines how the replacement values from archived data are to be generated. This occurs either with data from the same channel or with data from other input channels.

The processing of raw data depends on the harmonised methods of hourly quantity generation and replacement value generation of the gas providers. In the context of complete data generation, faulty data areas are localised and later can be directly visualised and processed by the user.

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„Gas Data from Measurement Tracks  
(Games)“

After the values are generated, a plausibility check of the processed data is performed according to predetermined test guidelines. The plausibility check offers various procedures for data verification against given discrepancy tolerances, such as verifying cyclical values or comparing the data of two data objects.

### **Technical Quantity Determination**

A complete technical quantity determination package with revision safe generation and preparation of billing relevant energy and demand values for an unlimited number of time slices can be optionally integrated. For station specific track groups or higher level evaluation groups, the specified evaluation periods can be determined for quantity, energy values and gas characteristic values. These contain the evaluations based on counter value flags or hourly values.

Additional integrated functions enable the generation and preparation of input data for gas characteristic reconstruction systems, which in turn supply the calculated gas characteristic values (hourly or daily means) for all network points. These values are then further processed to weighted daily and hourly values as needed and are then part of the calculation for correction quantities and energy quantities.

Evaluation groups enable the compression of station values, totals from other evaluation groups and freely defined balance values.

### **Gas Data Distribution and Internet**

Key features of PSIGames are the processing of data for customers who exchange data with other companies that also use PSIGames, and data provision via Internet.

The automatic transfer of the provided process data is performed via router or VPN connections between the respective partners. An authorised PSIGames user can specify which data has to be provided cyclically for the respective partner. After-

wards, this data is automatically retrieved by the partner's PSIGames server.

Authorised customers can login using Internet Explorer and can view those stations which they have been granted access to by the PSIGames administrator. Here they can see events or hourly counters, quantity and measurement values for given time intervals and can copy this information into intermediate files (e.g. a local Excel sheet).

### **Mobile Data Acquisition (MDE)**

Palm based implementation supports the following functions:

- automatic updating of new palm software versions
- automatic comparison using an unlimited number of connections (WiFi, COM, GPRS, etc)
- administering of meter index and routing data
- Infrared reading of demand meters
- manual acquisition of counter values including plausibility checks.

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