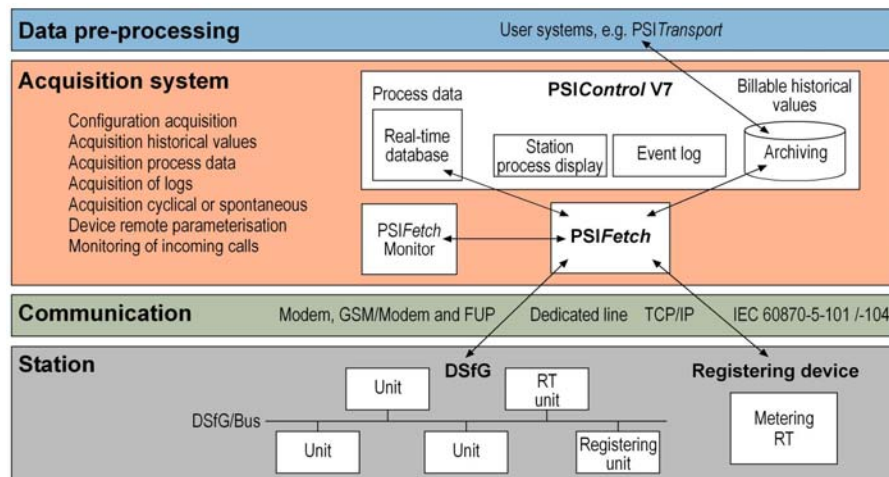


# PSIFetch

## Remote Meter Readout, Remote Parameterisation, Monitoring of Incoming Calls



PSIFetch was developed by PSI AG to support metering service providers in the gas industry with the acquisition and processing of data needed for carrying out gas measurements according to DVGW technical rule G 685.

The system enables reading of metering devices via (remote) data transmission, monitoring and verification of these readings, raw data archiving and archiving of the measurements in PSIControl V7 and then the transmitting of the measurement data to other systems.

PSIFetch has the following acquisition characteristics:

- Automatically determines the configuration for acquisition devices (DSfG: bus sharing unit)
- Reading of historical values and current values (process data)

- Reading of logs
- Cyclical and spontaneous acquisitions
- Remote parameterisation (commands and set-points)
- Monitoring of incoming calls (processing of incoming connections)

The following protocols and devices are supported:

- Protocol DSfG, also IEC 60870-5-101 and 104 (file transfer)
- Registering devices with manufacturer specific protocols from
  - AEG
  - Elster
  - RMG/Wieser
  - Tritschler

A list of additionally supported protocols can be sent upon request.

The following communication channels are available:

- Dial-up line via modem (AWD)
- Dedicated line with or without modem
- TCP/IP for the DSfG-LAN adapter
- FUP for the acquisition of special Wieser devices
- GSM modem
- IEC 60870-5-101 and 104 (as file transfer)

The administration of PSIFetch's devices and control schedule is completely integrated in the PSIControl V7 control system. Functions such as service system and user administration can be used; station process displays can be expanded to include acquisition functions.

Acquisition orders are prioritised and alternative connection paths (up to 3 paths) can be configured. Processing also ensures the repetition of failed acquisition orders.

Error situations of the acquisition hardware are automatically recognised. A special error mode tries to fix such situations automatically.

PSIFetch can optionally be designed as fail-safe and redundant.

The operational monitoring of PSIFetch is facilitated by:

- The integration of PSIFetch's status reports in PSIControl V7 (e.g. process display elements or event log)
- A configurable log on byte level for incoming and outgoing connections
- The acquisition monitor providing information about the actual connections and for displaying the byte logs
- A command line tool for automating monitoring and configuration (e.g. day/night retrieval configuration)

PSIFetch is an auxiliary module of PSIControl V7 and runs under MS Windows or Novell / SuSE Linux.

When required, PSI can also supply PSIFetch as a stand-alone solution without control system functionality.

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