SENTS™ TS200
TELEMETRY SERVER SOFTWARE

The SENTS™ TS200 server software provides an overview of the SENTS™ telemetry network through a standard internet browser.
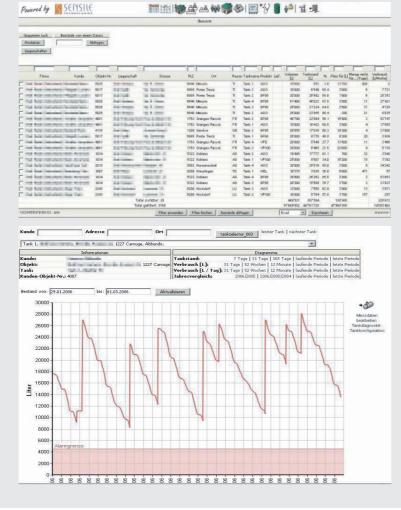
The server software receives, processes and graphically presents all of the information received from enrolled SENTS™ telemetry units.

Communication between the server software and the telemetry units is bi-directional. It is used to administer and configure widely dispersed telemetry units.
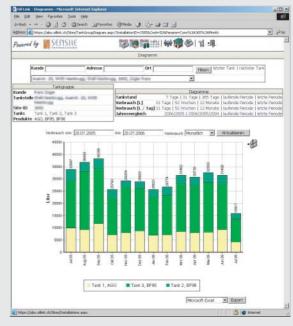
The server software can also initiate alarms if predetermined threshold levels of monitored telemetry units are exceeded; enabling immediate action to be taken.
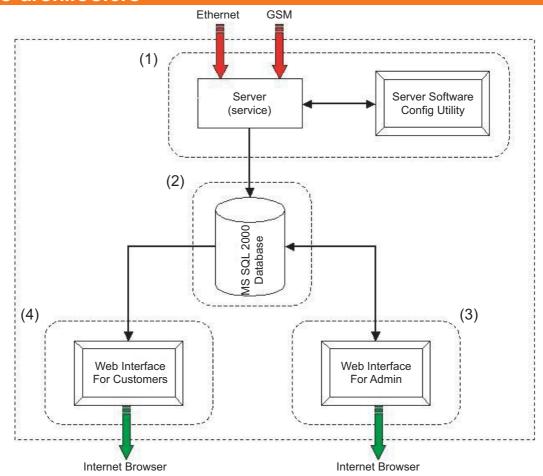
Customers can automatically receive alarms via SMS or email. At any time they can also view their current status and historical data using their preferred internet browser.

SENTS
Telemetry Units

MONITOR
Log Data
Detect Alarms
Transmit Data

CONTROL
Data Logging
Switch Ouputs
Alarm Thresholds

SENTS
Server Software

ADMINISTER
Process Data
Process Alarms
Archive Data

REACT
Forward Data
Forward Alarms
Send Commands

Software illustration & example

- Logistics & supply management
- Remote monitoring & control
- Alarm monitoring & alerting
  of service organisation

Software architecture

Ethernet   GSM

Specifications

The server software consists of four parts:

(1) Server
The server runs on Windows® 2000 and is responsible for receiving, processing and sending information to and from the SENTS™ telemetry units.
Functions
- Communication with telemetry units.
- Transaction with various services (e.g. meteorological data)
- Processing of information (e.g. tank level calculation)
- Forwarding of the alarms to customers (SMS, email,...)
- Data archive
Configuration utility
Setup of server software during and after initial installation.

(2) Database
Based on MS SQL 2000 Server, the database stores all information and calculated results from the server and supports enquiries from the administration and customer interfaces.

(3) Administration interface
Restricted, secure access for administrators to intuitive configuration tools through a standard internet browser.
Functions
- Add or modify customer information
- Setup or modify telemetry unit configurations
- Setup or modify web access for customer

(4) Customer interface
Restricted and secure access for customers to the data collected from their telemetry units through a standard internet browser.
Functions
- List of all information, including search or filter functions to help navigation (e.g. tank level)
- Access to historical data (weekly, monthly, yearly graphics) or by download of data files
- Various functions based on various information (e.g. tank level, consumption, predicted order date,...)

Minimum system requirements
Intel Pentium III or higher
Windows® 2000 Server Family oder Windows.NET Server Family
Microsoft SQL Server 2000
Internet access

Data reception & sending
GSM terminal modem connected to server serial port
Ethernet (various protocol) for Ethernet gateway interface

Communication speeds
Communication speeds depend upon the chosen solution for SMS transmission.
GSM modem
Nº incoming or outgoing messages: < 300 messages per hour
TCP/IP
TCP/IP with T1 connection or better
Nº incoming or outgoing messages: < 1800 messages per hour

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