



sinaproSIS

Storage information system for managing of a storage facility for oil, gas and chemicals

Solutions for each phase of storing and transport of oil, gas and chemicals

- From production, transport, refining, storing and distribution to sales
- Covering operations with oil and oil derivatives, chemicals, natural gas (NG), liquefied petroleum gas (LPG), and other liquid and gas media
- Gas pipeline, storage facility (tank farm), pumping station, loading/unloading gantry

Experience from environment - verified on operating systems

- Innovative solutions adapted to environment requirements
- Integral solutions – from a concept to implementing and maintaining
- Systems for control, managing and monitoring of storage operation in real time
- Automatic managing of loading and unloading with traceability
- Providing new technologies in the field of distribution and storing of gases and liquefied fuels

sinaproSIS is an information system to support processes of storing, transport and distribution of oil, gas and chemicals.

The system sustains from various modules ensuring efficient managing of the system and automation within the process of storage, pumping, and dispatch of oil, gas and chemicals:

Business integration enables integration of the storage information system (sinaproSIS) with the ERP.

Logistics as to dispatch of fuels enables logistic processing of individual transactions and interaction with drivers of cisterns and storage facilities managers.

Process integration enables reliable exchange of technological and operative data in real time between the storage information system (sinaproSIS) and supervision control system of the storage facility, managing the process technological equipment.

Reporting system enables precise, fast and user-friendly display of data and events in the storage facility and in logistics.

Advantages:

- Fully automated storage facility – operation requiring no staff;
- Optimization of storage operations;
- Optimal turning of stocks;
- Improved planning of storage capacities;
- Reliability of data intended for state agencies (customs, excise, etc.).

Functions:

- Automatic data acquisition, archiving, and tracing of all events (stocks, order status, product status, processes, failures, alarms) in real time;
- Identification and recording of all movements of suppliers/ customers/carriers from acceptance of delivery sheet/order to its realization (by means of RFID cards);
- Automatic on-line elaboration of reports in required time (expired quantities, consumption of additives, state of stocks in tank, etc.) and other documents (delivery sheets, invoices, etc.);
- On-line control of loading/unloading stations;
- Document management (delivery sheet, shipping order, ADR consignment note, etc.);
- High reliability of the system under application of redundancy systems;
- Connectivity with various types of hardware (scales, printers, feed computers, etc.), MES and ERP.

Modular structure

Module 1: Control of access and managing of waiting lists

- Access
- Optimization of waiting lists
- Directing to loading gantries

Module 2: Acceptance and dispatch of products

- Measuring systems in loading/unloading stations
- Measuring systems for additivation and blending
- Measuring systems on tanks
- System of tracing and sampling of products

Module 3: Control of stock, feeding, measuring

- Measurements and updates in real time
- Alarm system
- Automatic filling of tanks

Module 4: Managing of pumping stations and valves

- Optimization of pumping operation
- Pressure regulation in the system
- Assurance of better safety (emergency pump, replacement)

Module 5: Managing of loading and weighing

- Full control over re-filling/flow and ensuring of safety
- Procedures for automatic optimization of refill
- Control over systems for additives (blending, addition)

Module 6: System of control and managing of production

- Standard architecture, open and adaptable
- Issuing of delivery sheets and other documents
- Managing of stocks
- Reports on work and storage facility

Compatibility with other systems

ERP (SAP, BAAN, Navision,...), MES, LIMS

