

# VAE CONTROLS GROUP

## TAMAS Tank Management System

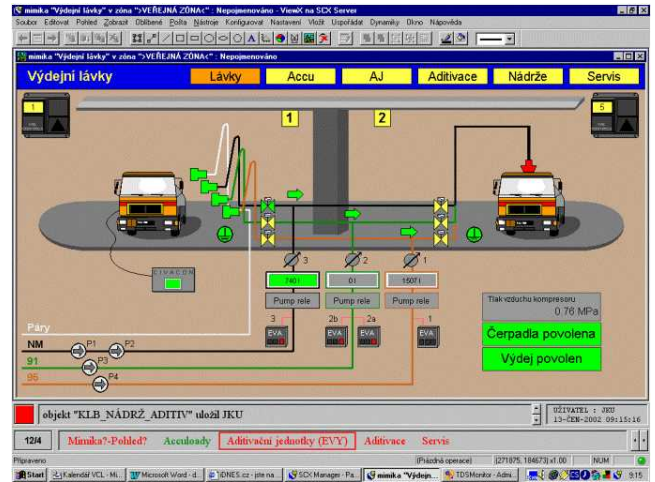
Tank Farm Automation And Administration



**TAMAS** (T**ANk** M**AN**agement S**YS**tem) is a computer based system for tank farm and terminal automation, process visualisation, database and administration management

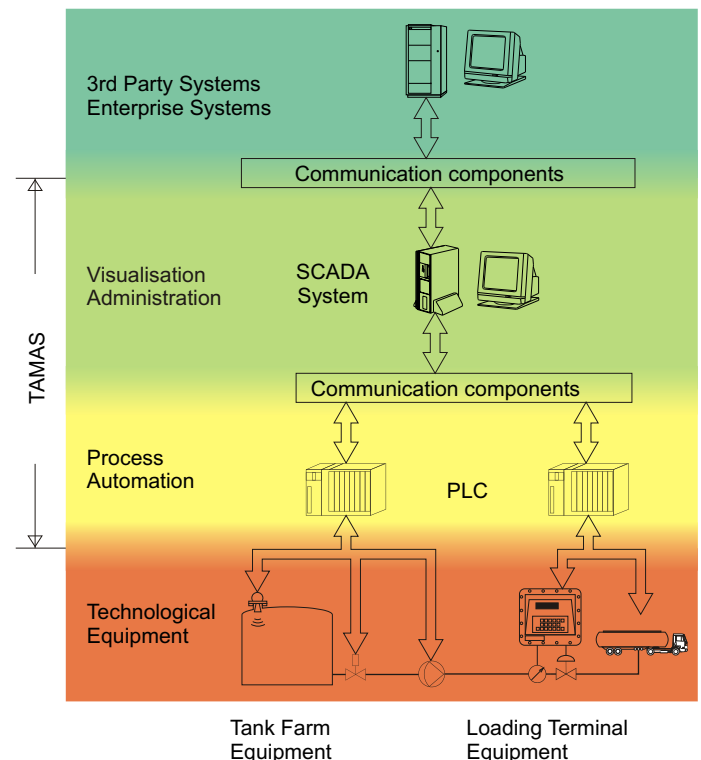
### Features

- Automatic operation of the technological process
- Process visualisation
- Dispatching control
- Alarm and event handling
- Distributed intelligence
- Safety procedures control
- Archivation of data
- Self-service operation using identification cards
- Custody transfer; Volume, mass and density measurement
- Pressure and temperature compensation
- Recalculation of the volume at reference temperature
- Printing of the bill of delivery
- Prevention of products cross-over mixing
- Additive dosing control
- Vapour recovery and recuperation control
- Emmission limits control
- Tanks level and pressure monitoring
- Leakage protection
- Environmental protection
- Prouct pipe-lines handling, product recognition
- Tank farm administration
- Communication with other information systems



### System Design

TAMAS is designed as multi-level system as shown on the diagram below.



### Conception of the system

Fuel terminals are technological units designed to place high demands on the reliability and safety of operating systems and providing quick access to technological data. Working with highly flammable and hazardous materials puts these systems among those designated Mission Critical Systems which must provide reliable operations even during special situations, such as power brak-down or failure of several system components. TAMAS is fully integrated control system which interfaces all technological equipment and provides its automation and dispatching control.

