



Supervisory computer systems

PLC programming

Electrical and instrumentation engineering

Service and commissioning

Consultancy and third party inspection

Performance monitoring

Total energy monitoring

www.gsd-automation.com

GSD supplies and can offer a wide experience in the following services

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Supervisory computer systems

Some call it SCADA, some call it HMI, but generally everybody is talking about the same branch of software packages. These software packages visualize a certain process and grant the operator the opportunity to take supervisory control of the process. As these packages are mostly installed on an industrial computer, we like to refer to **Supervisory Computer Systems**.

Global System Development can offer a wide range of knowledge of software packages and is off course always open to adapt to new packages when required. Our team can offer a vast knowledge of the following packages:



eXLerate®

This software package is a powerful industrial software product based on Microsoft Office® which can be utilized by System Integrators for a tailor-made, integrated and advanced solution with many built-in functions for a wide range of process control packages. The calculation capacity of Microsoft Office® enables a very flexible interface for reporting applications, as for example widely used in the oil and gas industry. A high degree of integration with metering and control equipment of virtually any manufacturer is a key target for any supervisory computer system



Siemens WINCC

SIMATIC WinCC is a scalable process visualization system with powerful functions for monitoring automated processes. WinCC provides complete SCADA functionality under Windows for all sectors – from single-user to distributed multi-user systems with redundant servers and crosslocation solutions with web clients. SIMATIC is currently considered to be the global number one in total plant automation.



GE Fanuc CIMPLICITY

CIMPLICITY is a client/server based visualization and control solution that helps you visualize your operations, perform supervisory automation and deliver reliable information to higher-level analytic applications. With the latest features of CIMPLICITY, including a powerful graphics engine, dynamic time handling and the add-on option digital graphical replay (DGR) 2.0, operators and engineers have the power and security to precisely monitor and control every aspect of their environment, equipment and resources. The results: faster responsiveness, reduced costs and increased profitability



Wizcon

Wizcon Supervisor™ is a complete, robust software system that allows users to securely manage and control real-time processes locally from a PC or remotely via the Internet, using a standard Web browser. It combines operator interface, supervisory control, soft logic capability and the best of the Internet technology to transform a classical SCADA software into a real decision-support solution and supplies the software tools needed to build a complete automation solution.



Wonderware

Wonderware is one of the market leaders in real-time operations management software. Wonderware software delivers significant cost reductions associated with designing, building, deploying and maintaining secure and standardized applications for manufacturing and infrastructure operations. Wonderware solutions enable companies to synchronize their production and industrial operations with business objectives, obtaining the speed and flexibility to attain sustained profitability.



PLC programming

A PLC or Programmable Logic Controller is primarily used to control machinery. The PLC is designed to handle incoming events in real time and will respond to these events likewise. Global System Development can offer a wide range of knowledge of PLC packages in stand-alone, dual redundant, from low cost to high-end applications, and is off course always open to adapt to new brands when required. Our team can offer a vast knowledge of the following PLC brands:

Schneider Electric <ul style="list-style-type: none">• Modicon Quantum and Premium• Télémécanique 	Siemens <ul style="list-style-type: none">• S5• S7 
GeFanuc <ul style="list-style-type: none">• Versamax• Rx3i / Rx7i 	Allen Bradley <ul style="list-style-type: none">• Controllogics 
VIPA <ul style="list-style-type: none">• Speed 7 	Omron 
Saia 	



Electrical and instrumentation engineering

Since the move to the new office in Wuustwezel, Global System Development is capable of designing, producing and testing of electrical cabinets for industrial installations, and can therefore put the vast experience in P&ID's, loop drawings and cabinet lay-outs to the test in our own facilities. Design can start at basic engineering, P&ID's or system block diagrams, according to customer specifications, followed with calculations and cable specifications and end with a complete package of loop and lay-out drawings for electrical cabinets. The control cabinets can be produced and tested in house and then shipped to the customer or can undergo a witnessed factory acceptance test in our premises prior to the actual shipment. Design also includes the selection of components to be installed in the cabinet. GSD operates as an independent identity and can therefore provide the flexibility to integrate specifically selected products to match the customer's needs at best.



Service and commissioning

At Global System Development, all of the engineers are involved in the project from the very first beginning at engineering stage to the very end at start-up. This means that all of the engineers are trained and experienced in on site commissioning as well onshore, as offshore. For the onshore projects, our engineers meet safety requirements such as VCA, which means Basic safety, health and environment for contractors and executives. For offshore projects, all engineers are BOSIET (NOGEPa, OLF and OPITO) certified at Falck and are therefore capable of handling the widest range of projects.



Consultancy and third party inspection

As from early 2009, GSD has started a division for consultancy in oil and gas related projects and third party inspections. As part of consultancy, GSD assists in writing specifications and equipment lists, as well as cable specifications and manuals. As part of the manuals, GSD conducts training sessions on location or in our premises in Wuustwezel and on site, in the form of hands-on operator training. Third party inspections and FAT or calibration witnessing can be performed on request.



Performance monitoring

The world of fiscal metering, generally known as a reasonably “conservative” market, has focused on enhancing the metering accuracy for a very long time. Re-inventing the standards of the current existing metering principles was the way to achieve this enhanced accuracy. In an operating condition, to be sure the metering accuracy was still met, a regular maintenance check and/or recalibration of the metering equipment was required. With the more recent developments in ultrasonic metering, a second aspect in fiscal metering accuracy was brought to light, i.e. it became possible to constantly monitor the meter performance in an online measurement. In this way, the tools provided by the ultrasonic meter can provide the user with information on when maintenance, proving or a recalibration is really required, instead of using fixed time intervals. This information can be presented to the end-user in a stand-alone PC based program, or can be added to the standard functionality of the Supervisory Control System, both with all proper reporting capabilities to generate a log that can be used by the meter manufacturer for diagnostics and error tracing. GSD is currently capable of handling performance monitoring for Ultrasonic meters of Elster-Instromet, Caldon and Sick-Maihak.



Total Energy Monitoring

Green, environmental friendly, zero emission, ...

All of these terms have become increasingly popular in the existing and newly developed production processes. Modern manufacturing processes run on energy. Instability in energy supply and pricing and increasing concerns about environmental impacts are causing many manufacturers to re-evaluate their energy use. In order to control energy use and associated impacts it is necessary to understand how, when, and why energy is used. As a second step in this monitoring process, for environmental legislation purposes, it is becoming increasingly important to monitor the total exhaust emissions accompanying the energy production. CO-, NOx-, CO2, ..., all of these exhaust emissions, resulting from the combustion of hydrocarbons are often to be monitored in order to meet environmental restrictions. With the knowledge of energy measurement and performance monitoring, Global System Development is capable of monitoring the entire energy intake, output and/or exhaust gas emission to optimize just about any kind of energy depending process or installation.





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