

PROCOS Overview

An Open Process Control System

- Open-endedness = Integrated production environment
- Modularity = Flexible implementation
- Standards Based = Low life cycle cost
- Proven Technology = Stability and availability
- User friendliness = High efficiency
- Focused on specific market segments = Optimised characteristics

The new PROCOS from Logica has been developed to meet the tough requirements for integrated process and production control systems by the industrial sector. PROCOS is postured today as a complete system founded on more than 25 years of experience in systems integration for high reliability applications, software development and in-depth knowledge of industrial process control.

Trendsetting Technology

Imagine one Distributed Control System, covering all production requirements in all process related industries. The main strategy for PROCOS is to provide one environment with one open shared Tag Database which provides data transparency from bottom to top in a DCS/Scada application. Based on open software standards, open Beckhoff Embedded PC/IO hardware and Modbus/Ethernet TCP/IP distributed field-bus, PROCOS is in the lead as the most open and complete Distributed Process Control System.

Meeting the challenges

PROCOS is specifically designed for the segments: Pharmaceuticals, Food & Beverage, Infrastructure, Water- Wastewater and Utilities. With focus on the sectors pharmaceuticals and food and beverage PROCOS is fully validated and in compliance with FDA's 21CFR part 11.

The PROCOS system is also proposed with the integrated batch handling system PROCOS Batch. PROCOS Batch, which comes fully integrated in the PROCOS environment, is based on the ISA-S88.01 standard.

Highlights

The new PROCOS on the Windows platform has been focused on a number of key success factors:

Open-endedness = Integrated production environment

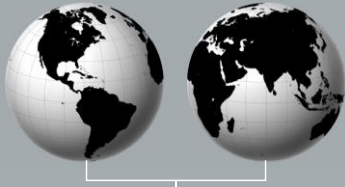
PROCOS is based on an open-ended platform with a built-in integration to administrative systems ERP/MES/MIS. Further, PROCOS contains facilities to perform integrated communication to all important shop-floor control systems, supporting a real multi-vendor environment.

Modularity = Flexible implementation

The general distributed architecture of PROCOS makes it possible to implement small installations at a very low cost, and gradually upgrade these to medium and even large installations securing full usage of prior investments.

Standards Based = Low life cycle cost

The system is, where possible, based on available de-facto and ISO standards on hardware and software. This gives a maximum security for protection of investment,



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| Australien | Marokko |
| Belgien | Norge |
| Brasilien | Polen |
| Canada | Portugal |
| Danmark | Rusland |
| Egypten | Saudi Arabien |
| Estland | Schweiz |
| Filippinerne | Singapore |
| Finland | Slovakiet |
| For. Arab. Emirater | Spanien |
| Frankrig | Sverige |
| Holland | Storbritannien |
| Hongkong | Taiwan |
| Indien | Tjekkiet |
| Indonesien | Tyskland |
| Kuwait | Ukraine |
| Luxembourg | Ungarn |
| Malaysia | USA |

as you are independent of a specific hardware and software vendor. As an integrated facility PROCOS enables communication to a wide variety of 3rd party products like spreadsheets and relational databases. Basing PROCOS on available standards also secures full exploitation of the general market development towards faster and smaller units.

Proven Technology = Stability and availability

The basic platform for PROCOS is operational in numerous installations in leading industries and has as such proven a very high degree of stability. Further, the distributed architecture secures multiple access to the production areas and thereby increasing the general availability.

User friendliness = High efficiency

The user interface of PROCOS is based on state-of-the-art technology increasing the operator efficiency. An objectoriented approach with a consistent look and feel focuses on the human aspects during the operation of the system.

Focused on specific market segments = Optimised characteristics

PROCOS has been developed and fine-tuned for a limited market segment making it possible to focus on the specific problems that these market segments are facing. Initially, the following specific segments have created the background for defining the functionality of PROCOS:

- Pharmaceuticals
- Food and beverage industry
- Utilities
- Transportation logistics

ERP

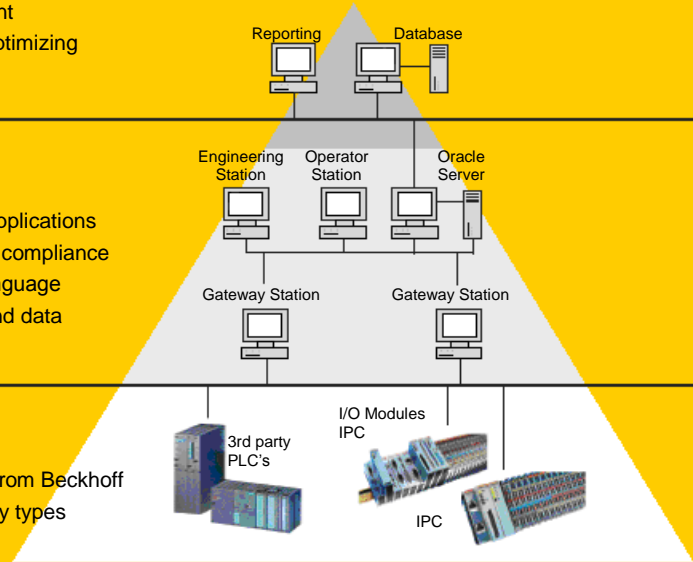
- Production & Commercial management
- System integration by PROCOS for optimizing processes and production

Production Control

- Open & free Data Tag structure
- Functions & structure for Batch S88 applications
- Functions & structure for CFR part 11 compliance
- Easy 'do as you talk' programming language
- Open standards for communication and data exchange with 3rd party applications

Shop-floor control

- Modern and optimized technology
- Standardized and open HW platform from Beckhoff
- High performance and quality for many types of environments and industries
- Modular and scalable
- Open Field bus standard: Modbus-TCP/IP



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