

## PROPOS factsheet - per January 2018

### Brief description

PROPOS is a company wide solution for managing production (job shop) environments (job shop control system / manufacturing execution system). PROPOS helps improve delivery reliability, decrease lead times and cut production costs. PROPOS is based on the principles of Quick Response Manufacturing (QRM) and Lean Manufacturing. Working with PROPOS will bring powerful aspects of Lean and QRM into your company or it will enhance your current Lean or QRM implementation. PROPOS is linked to ERP (two way possible).

### Key benefits

Makes the daily work of controlling the production process much easier.  
Saves time on production planning and enables management by exception.  
Involves everyone in reaching your company goals regarding lead time and delivery performance.  
Lets you look ahead and take measures to take away bottlenecks even before they really occur.  
Enables you to bring as much responsibility as possible down into your organization.  
Prevents waste of time e.g. discussions about priority, preparing work while no material available.  
Everyone is always working on the right production order.  
Helps you to make the right decisions on where to start improvement projects.  
Real time insight in all production orders and their status.  
PROPOS makes work easier, helps to make your customer happy, to do more work with the same people and to continuously improve your business.

### PROPOS software modules

- 1) Client system
- 2) Server system
- 3) Microsoft SQL Server database

### System requirements

Client application: Microsoft Windows 7 or higher, terminal server environment is supported  
Microsoft Office 2007 or higher (for office use)  
1440 x 900 / 1600 x 900 screen resolution, touch screen on production floor  
Minimum of 4 GB RAM and Intel i3 is recommended.

Server application: Microsoft Windows 7 or higher, 4 GB RAM, Intel i5 or higher.

Database server: Microsoft SQL Server 2008 R2 (or higher) (Express is supported in most cases)  
At least 4 GB RAM free for SQL server (instance) is recommended.

### PROPOS functionality

#### Client system + server system

Auto ERP production order (PO) import (XML)  
ERP route / recipe change detection  
PO structure building with support for sub-POs and multiple authorization moments  
Unlimited sub-PO structure supported  
PO scheduling based on ERP data, advanced cell settings, precalculated white space support, sub PO / main PO synchronization  
PROPOS data auto export (XML or XLS) for two way ERP connection  
Auto PO sequence per cell to ensure working on the correct order  
Archiving closed PO's for lookup  
Calculating planned and remaining WIP per cell  
Calculating planned and remaining capacity per cell  
Calculating data for analytical purposes (optional)  
Log file for PROPOS system analysis

- Auto log file cleanup
  - Adjustable import / export frequencies and file settings
  - Factory cell screens for showing and collecting data on the production floor
  - Factory PO finalization screens
  - Office cell screens for showing and collecting data at the office
  - Office dashboard for PO control, cell control, authorization, backorder detection, exports and analysis
  - Advanced cell definition with white space management for scheduling, auto start cells, auto end cells, authorization cells, parallel processing, flexible working times, color settings
  - Time stamp collection per operation (white space, black space)
  - PROPOS data manual Excel export for analysis
  - User management
  - Rights management
  - Maintenance module
  - Safety export (PDF) of planning for emergency situations
  - PO step by step rollback
  - Customizable authorization moments
  - Waiting for sub-PO detection and information on location of sub-PO
  - Backorder detection on shop floor
  - Block PO's (manually or follow ERP)
  - Alternate PO routing
  - Manual PO sequence override per cell
  - Graphs for (remaining) WIP, planned PO's, (remaining) capacity per week or per day
  - Capacity entry per cell
  - Capacity entry and graphs by week or by day
  - Blocked dates per cell (for holidays, scheduled maintenance, etc.)
  - ERP PO end date override
  - Report printing for factory use
  - Archived PO (history) lookup
  - Advanced analysis functions with precalculated versus actual values, cell performance, MCT map, white space and black space analysis, delivery reliability analysis, WIP analysis, QRM number analysis.
  - Advanced scheduling of Work in Process (WIP)
  - Between cell buffer location registration
  - No sufficient (raw) materials available information (from ERP) on shop floor
  - Custom parameters per PO per production cell for organically reducing setup times (e.g. tool / color / material)
  - Zoom in on machine / operation level
  - Full QRM support: QRM cells, lead time based, POLCA support, From To Table, MCT maps, etc.
- Digital POLCA (optional module)
- Employee Registration (optional module)
  - PROPOS Smart Planner (optional module)

- Load Balancing (Digital POLCA / cell management) module (optional)**
- Workload control based on POLCA or cell management
  - Digital POLCA module replaces physical cards and makes implementation and maintenance easy
  - Order based POLCA or load based POLCA supported
  - Classic POLCA, POLCA *FlexCards*, buffermanagement/cell-management load balancing supported
  - Easy entry of number of POLCA cards per route
  - Temporary card system per route with expiration dates
  - Blocked PO's do not hold cards
  - Automatic new POLCA route detection and warning
  - Per cell adjustable moment when POLCA card is released (start work / end work)
  - Cards visible or not can be set up per cell
  - From-To table generator
  - Auto POLCA card calculation based on history or based on current situation

## Employee Registration module (optional)

Registration of who works when on which production order  
Registration of (custom) indirect hours e.g. meetings, cleaning  
Registration of work day start and work day end per employee  
Allows measuring of total net touch time per PO per production cell  
Allows tracking the employees that worked on a certain PO  
Auto XML or XLS export of registration data for processing in ERP or HRM system

## PROPOS Smart Planner module (optional)

Auto balance planning to capacity for cells with less flexibility

## Simulator

Simulate the impact of new production orders / quotations on the planning.

### Contact

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PROPOS, optimal flow!