GIMM PROCS

T·Systems
GIMM SOLUTION
gimm (Global Integrated Manufacturing Manager) is a T-SYSTEMS solution created to synchronize the automotive supply chains (car manufacturers and first tier suppliers) giving a specific answer to Just in Time, Just in Sequence, Traceability, Production Control and Warehouse Management.

gimm manages the logistic and productive activities in discrete delivery or production environments, synchronizing the processes of the plant to ensure proper keeping of the supply chain.
PROCS manages factory’s internal production through automation of their productive operations in “Manufacturing Execution System” (MES) modality, controlling the robots at workstations or work cells and thus guaranteeing follow-up and automatic traceability of both their productive processes and finished products.

Main functionalities covered by PROCS:

▪ Acquires and stores traceability data,
▪ Ensure production process quality,
▪ Management of workstations and work cells,
▪ PLC configuration and management,
▪ Handles raw material, production, rework, scrap and packing stations
▪ Management and configuration of productive workflow.
GIMM PICKING SYSTEM MODULES

gimm provides extension modules for picking and kitting processes. Based on technologies such as tablets, lights, vision and voice or combination of several of these elements the picking system modules bring to customers innovative logistics solutions to achieve Industry 4.0 objectives.
GIMM

FUNCTIONAL MODULES OVERVIEW
GIMM - BENEFITS

- Focused on Automotive sector for JIT/JIS and traceability
- Flexible, scalable and highly configurable
- Standard interfaces
- Product Management & Roadmap
- 24x7 expert assistance specialized on mission critical environments
- +80% incidents solved within first contact
- OEM’s demand compliant
- Worldwide support service
- Industrial expertise
- Highly skilled team worldwide
- +15 years business experience
- Excellent knowhow in shop-floor processes
- Single provider with worldwide coverage
- Cost effective
- Global approach
- T-Systems product
GIMM PROCS
PROCS (Production Control System) manages factory’s internal production processes through automation of their productive operations in “Manufacturing Execution System” (MES) compliance, guaranteeing a follow-up and a traceability of both their production processes and finished products by exchanging data with machine tools, robots and operators.
PROCS

MAIN FUNCTIONALITIES

- Management of assembly /production lines (work cells). Scalable for large physical facilities
- Management and configuration of productive workflow (sequential control of operations)
- Ensure production process quality
- Handles the bill of materials and the declaration of reworks and scraps
- Packing of products and material consumption management
- Poka-yoke production techniques
- Standalone or connected to a JIS/JIT\(^{(1)}\) - APS\(^{(2)}\) systems
- Online monitoring of workstations
- Online monitoring of production KPI’s
- Online production alerts (graphical displays, email, labels,...)
- Hardware simulators (virtual devices) for modelling purposes

\(^{(1)}\) JIS/JIT: Just In Sequence / Just In Time
\(^{(2)}\) APS: Advanced Planning and Scheduling
PROCS

OPERATIONS & ENGINEERING

- Login on workstations and monitoring screens
- User profiles tailoring
- Multiple BOM /Routing
- File import/export capabilities
- PLC connection and management of data acquisition
- OPC compatible (Kepserver, Applicom, etc.)
- Integration with different ERP or multiples sources (databases, flat files, XML, WebServices, etc.)

PRODUCT TRACEABILITY

- Traceability of items (subassemblies, components and batches) and environment (worker, machine process parameters,..)
- Historical storage of data (long-term data database)
- Genealogy and traceability reports
- Full traceability of JIT orders
Workstation simulation tools
UI / UX provided by T-Systems

Any device with a web browser: PC, Thin Client, Tablet, etc.
Option: scanner connected to the device or to Ethernet.

UI / UX provided by the customer

UI / UX provided by T-Systems
**PROCS**

**DATA EXCHANGE PROTOCOL**

**W/O WebStation**

1. **STEP 1**: Scan of components barcodes
2. **STEP 2**: PROCS sends the cycle authorization to the PLC/ProFace (optional, other data).
3. **STEP 3**: PLC/ProFace sends the result of the operation to PROCS (optional, other data).

**With WebStation**

1. **STEP 1**: PROCS sends the cycle authorization to the PLC/ProFace (optional, other data).
2. **STEP 2**: PLC/ProFace sends the result of the operation to PROCS (optional, other data).
Based on the workstations configured PROCS is able to trace all data sent by PLC or any other hardware connected to it. Data like measurements, weights, temperatures, etc. are all stored.

Traceability data can be accessible through pre-configured reports and monitoring tools.
gimm is using Microsoft Reporting Services.

- There is a set of reports predefined: full traceability of a single part, production between dates.
- New reports can be added depending on customer requirements.
- Reports can be exported to csv file, excel, pdf for internal purposes.
PROCS
BUSINESS ANALYTICS

PROCS allows production data analysis.

• Collection in data cubes of all measures generated for KPI’s, counters and downtimes.
• “Pivot grid” controls in order to build custom data views.
PROCS
PRODUCTION LINE MONITORING

PROCS provides tools in real-time for monitoring the data gathered.

- From production line general overview to workstation status details.
PROCS provides tools for analyzing in real-time availability, performance and quality KPI's:

- Core metrics used in Total Productive Maintenance (TPM)
- To achieve perfect production:
  - No Breakdowns
  - No Small Stops or Slow Running
  - No Defects
PROCS
PRODUCTION LINE KPI’S

PROCS provides tools in real-time for analyzing downtime on Pareto graphic.

- Planned and unplanned stops
- Custom downtime categories
THANK YOU FOR YOUR TIME

VISIT US ON: HTTPS://GIMMSOLUTIONS.COM/