

Automotive

Improving Production Speed and Quality

Adroit Technologies

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Adroit Solutions

Adroit Technologies concerns itself mainly with R&D, Production, Sales & Marketing, Training and Support of software products for Automation, SCADA, MIS and MES solutions. In addition, Adroit Technologies has a professional services arm, known as Adroit Technologies Technical Services that consults in and develops customised industrial IT, MIS and MES solutions for customers.

The **Automotive Sector** is a vast and complex one and the Adroit SCADA is ideally suited to assist in the efficient monitoring and control of even the most complicated production plant.

The rigid and quality driven nature of this industry is ideally suited to the Adroit SCADA/HMI product. The time tested and proven reliability of the product sees Adroit being used by large producers to safely run these valuable and strategic assets.

The Adroit architecture and openness offers companies a unique capability of not only traditional SCADA/HMI functionality but the ability to integrate all aspects of their operations. By adopting a more holistic approach to Operations Management significant savings and operational efficiencies can be realised.

In this sector, Adroit is uniquely placed to ensure a superior quality of supply in all aspects of the operations and management of these facilities.

Adroit SCADA Capabilities and Benefits:-

- Process Visualisation
- Process Events and Alarming Management
- Quality Management
- Historical Data Logging and Trending
- Fully Object orientated
- Process Improvement / Built in Auditing functionality
- Reporting and Analysis
- Integration into Business Applications

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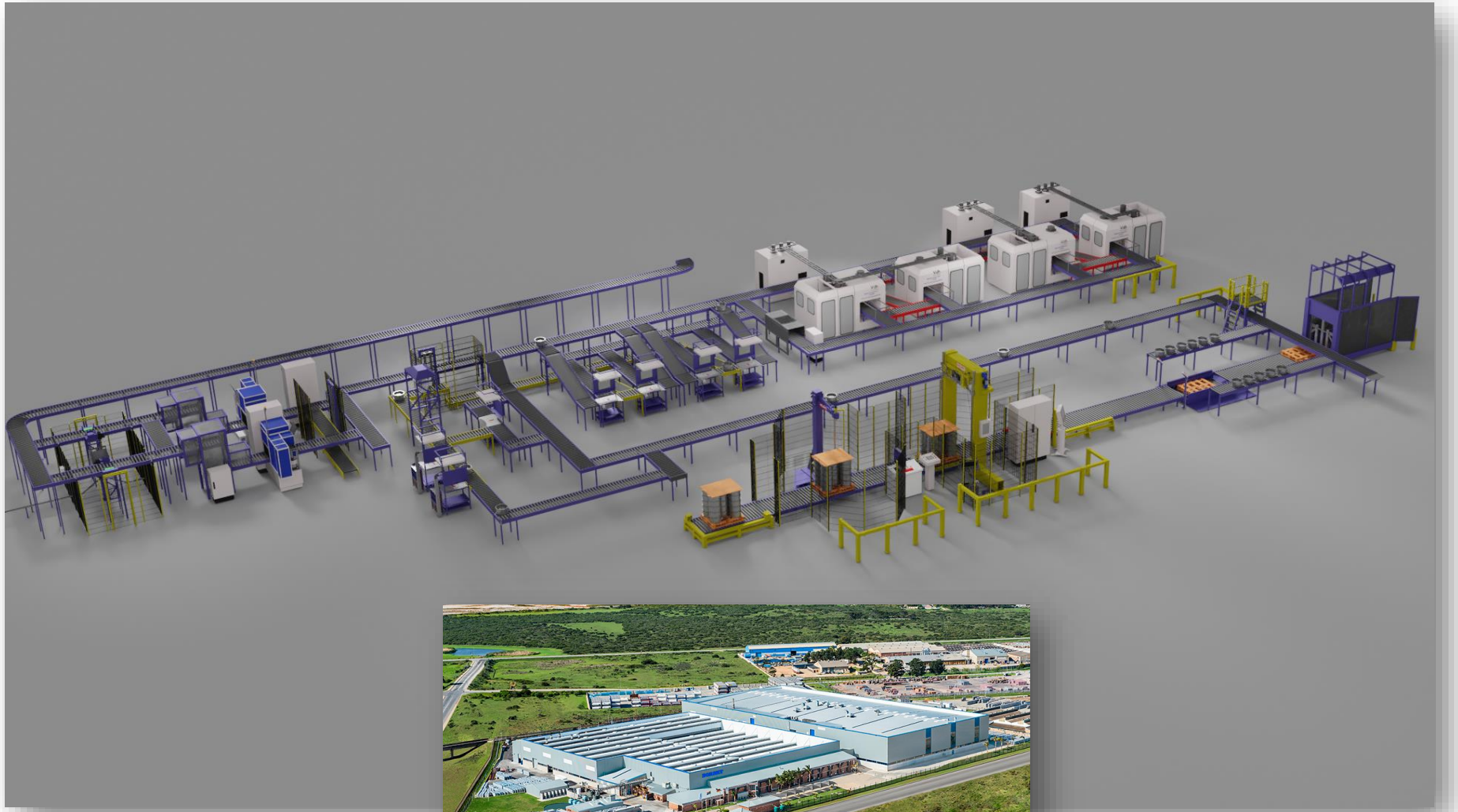
Target Areas	Challenges	Solutions
• Production lines • Assembling lines • Testing Areas • Paint Shops • Banbury Plants	• Robotics & AI • Smart Manufacturing • Predictive Maint. • Quality • Emmissions	• SCADA • PLC • HMI • SERVO & Motion • Robot/Cobot



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Borbet : Alloy Wheel Manufacturing Facility, SA

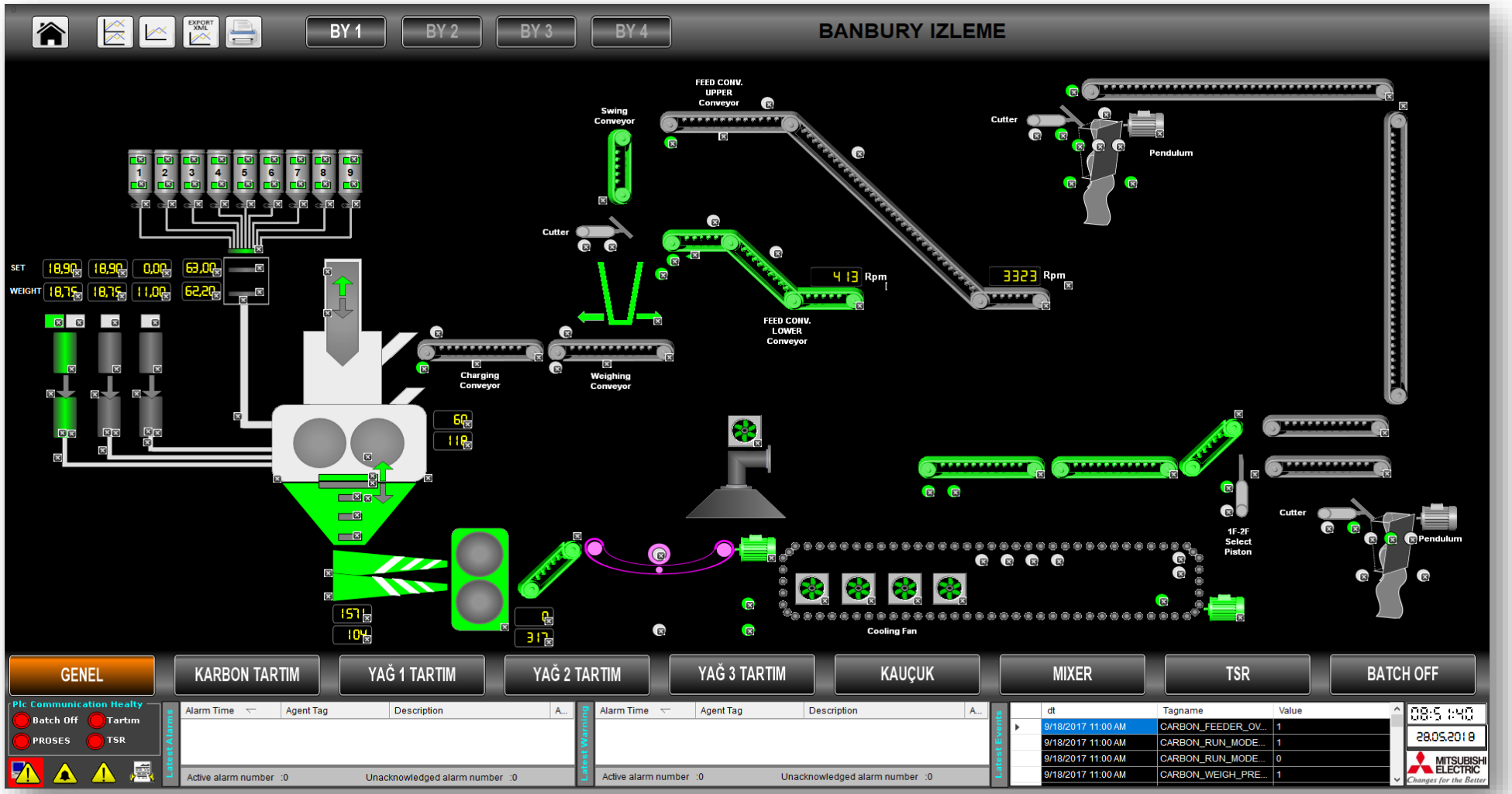
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Sumitomo Tyre Factory Banbury Project, Turkey

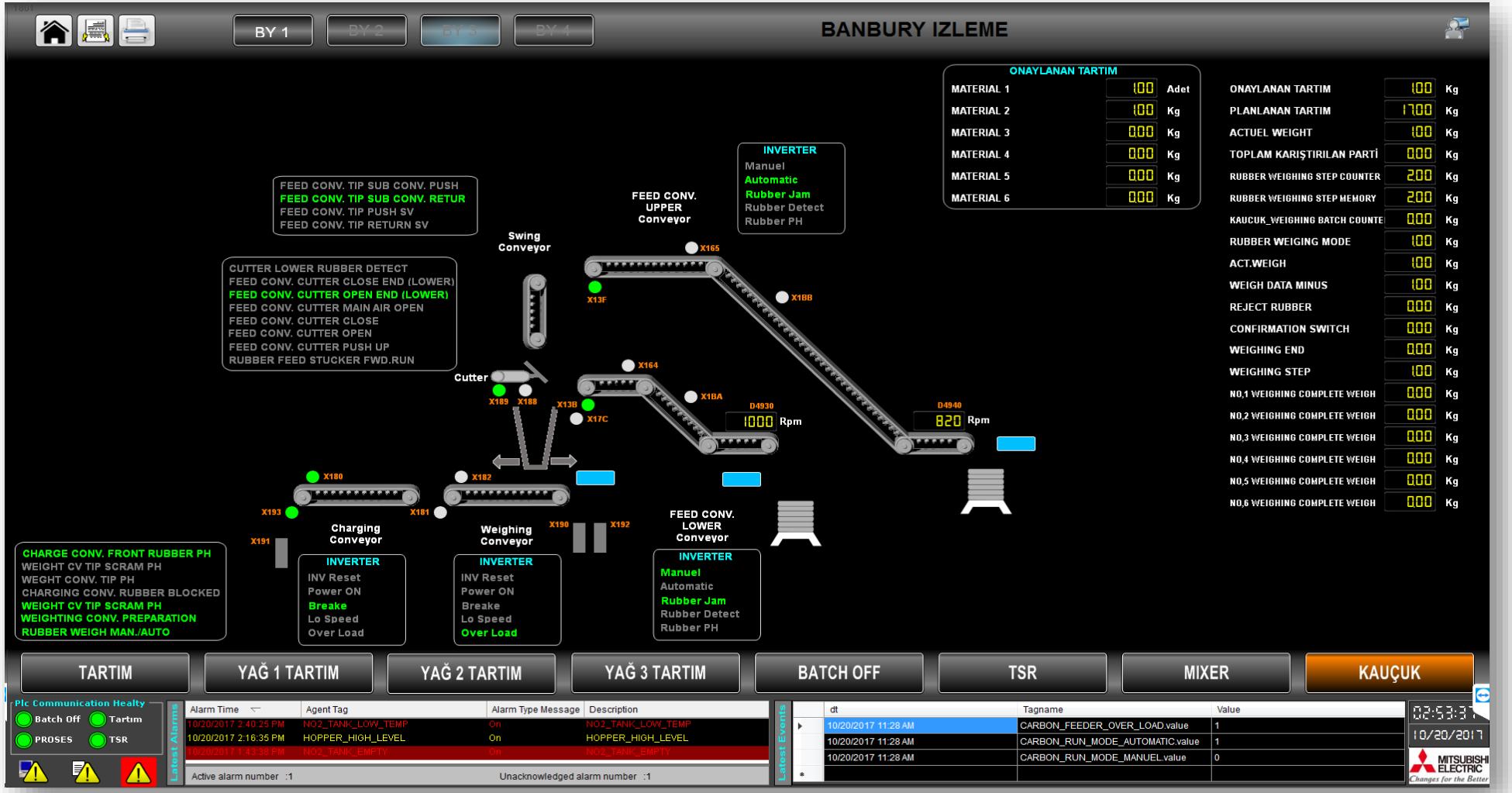
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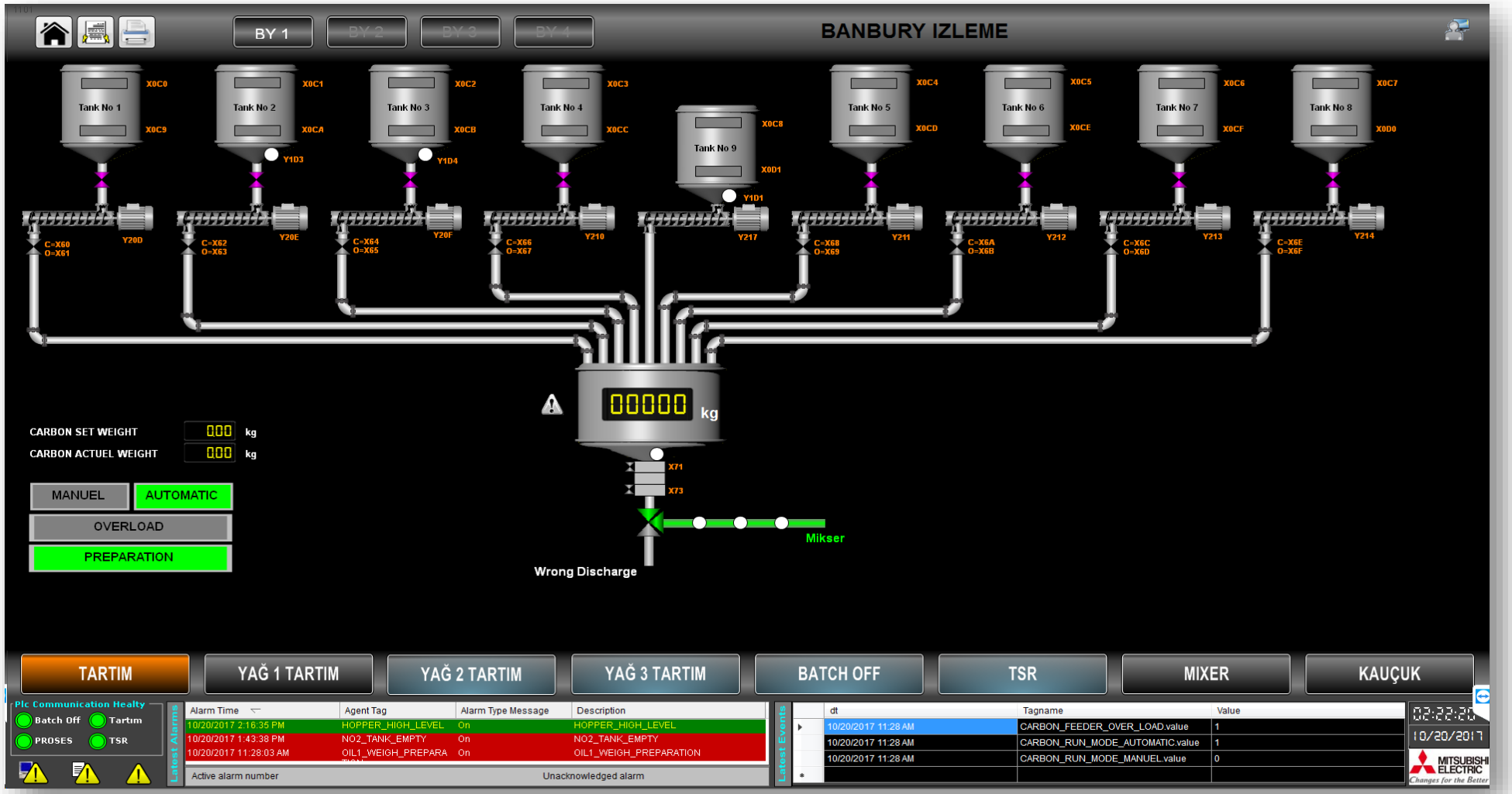
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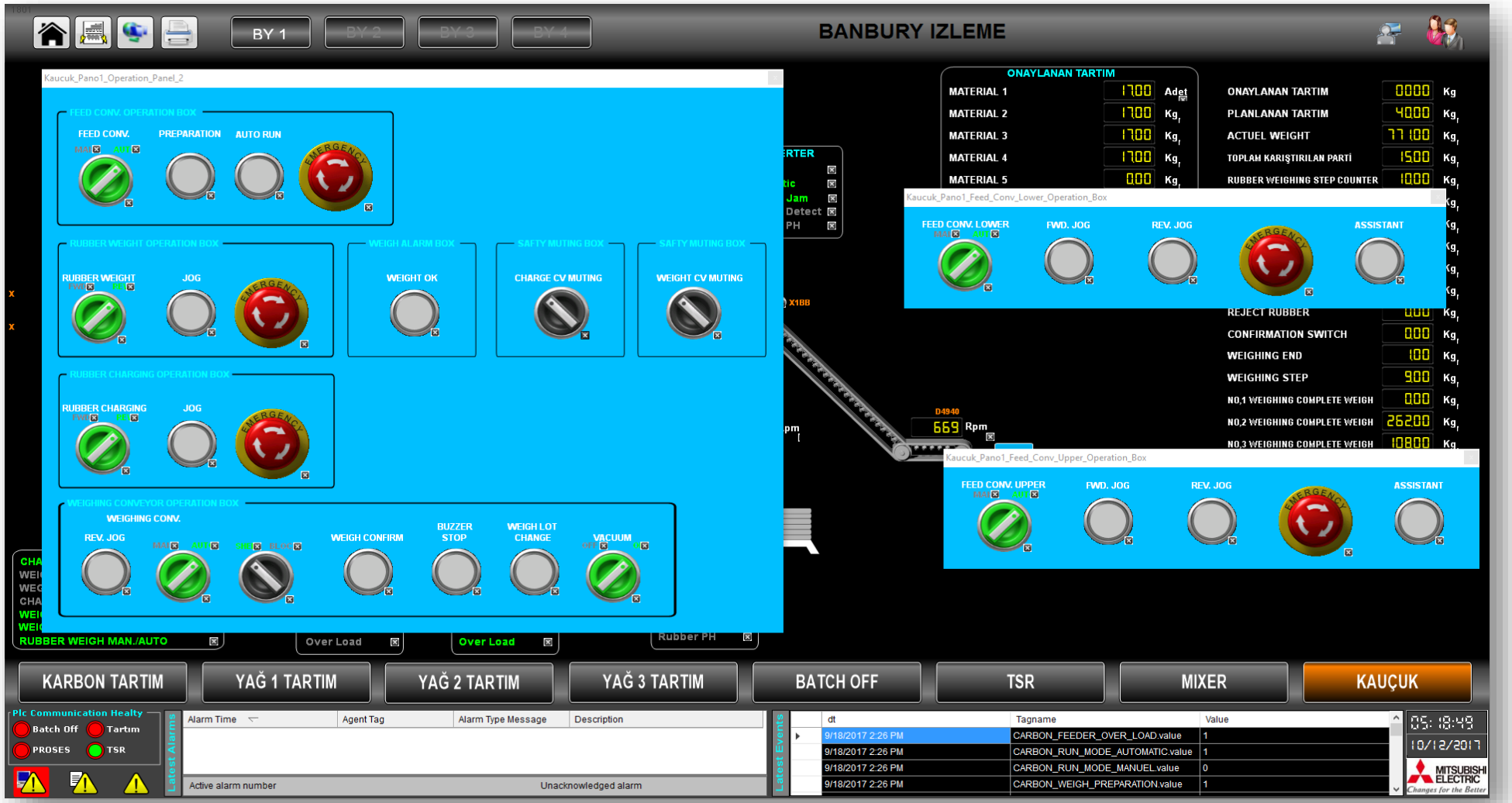
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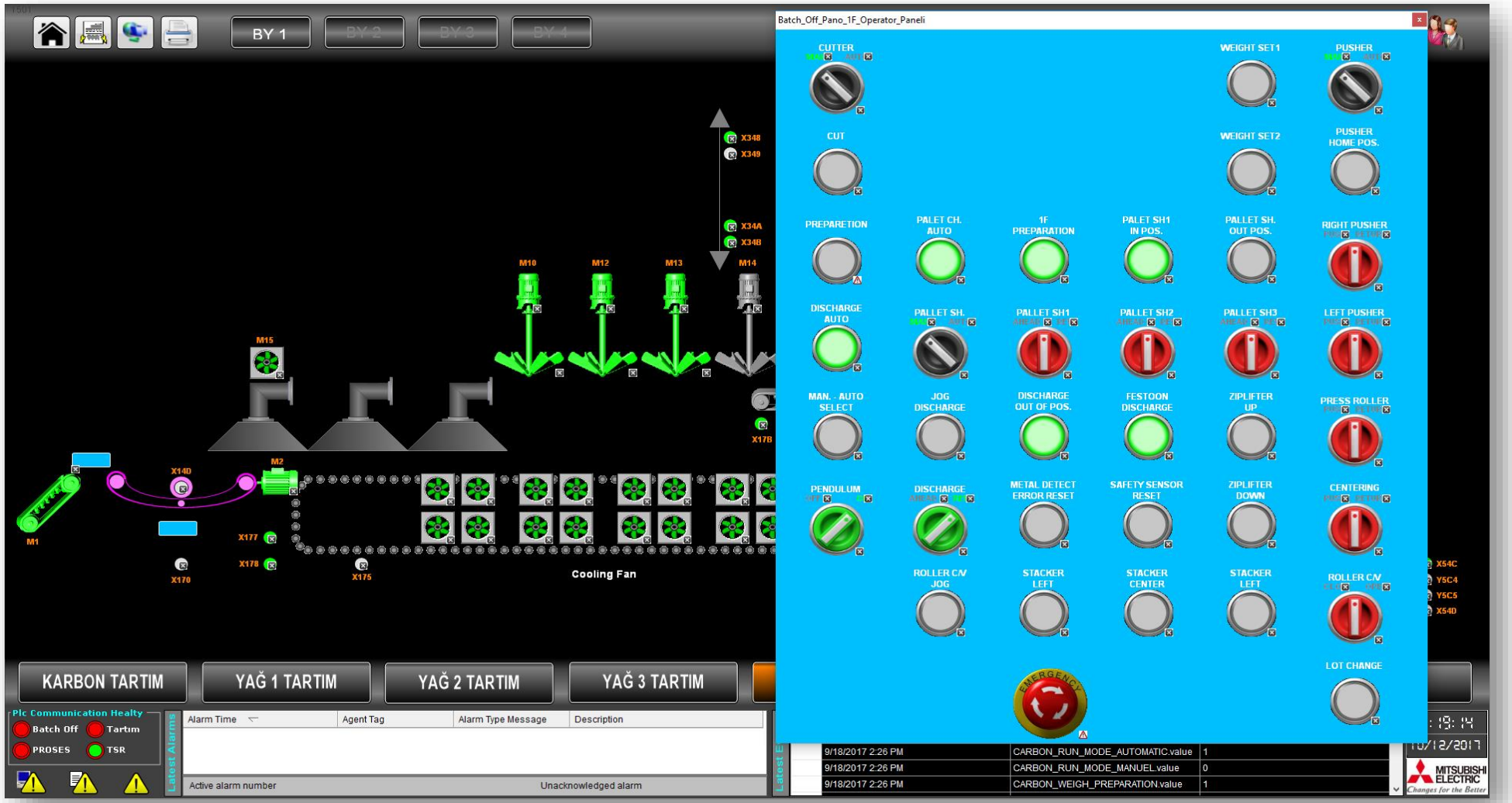


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Alarm System – Hyundai Motors, Turkey

- MAPS as an Alarm monitoring system for a production cell
- In a robot line there is a SCADA which had been made by Koreans. But this SCADA System is not effective enough for operators.
- In the past they missed some important alarms and important sensors situations.
- The Mitsubishi Electric Turkey System integrator proposed MAPS SCADA to improve the Operator awareness for alarms and critical conditions

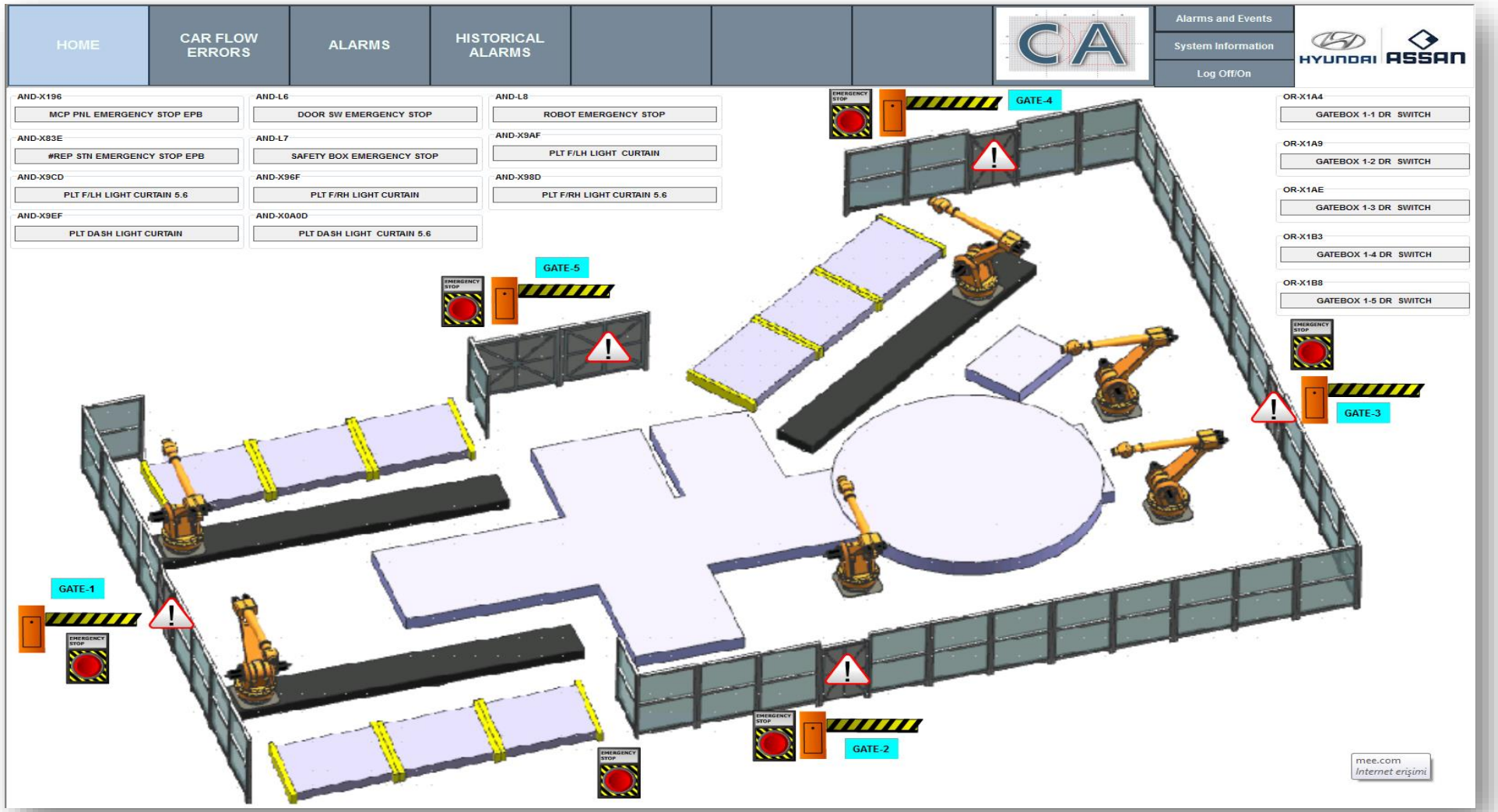




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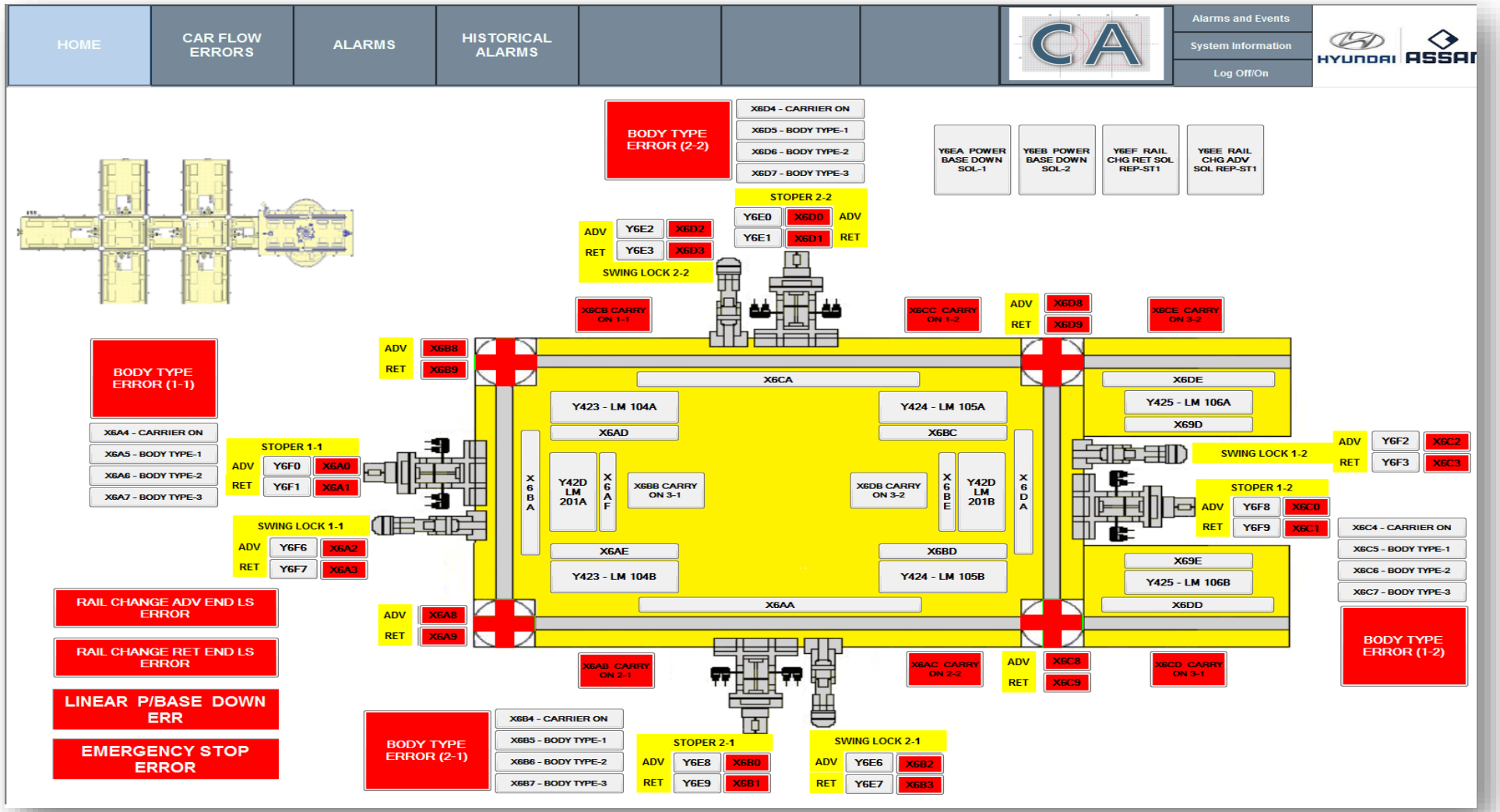
Alarm System – Hyundai Motors, Turkey



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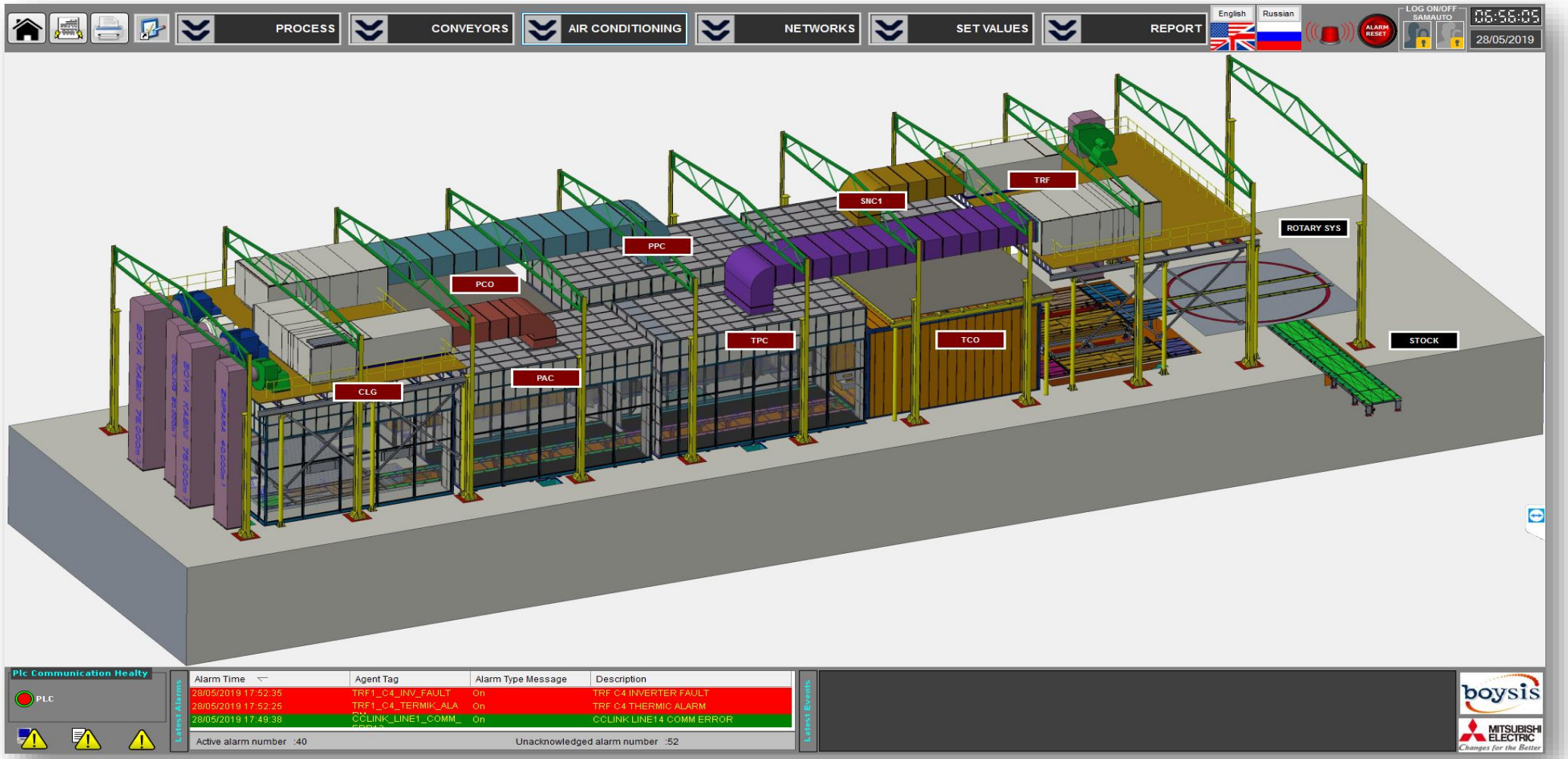
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SamAuto Paint Shop, Uzbekistan



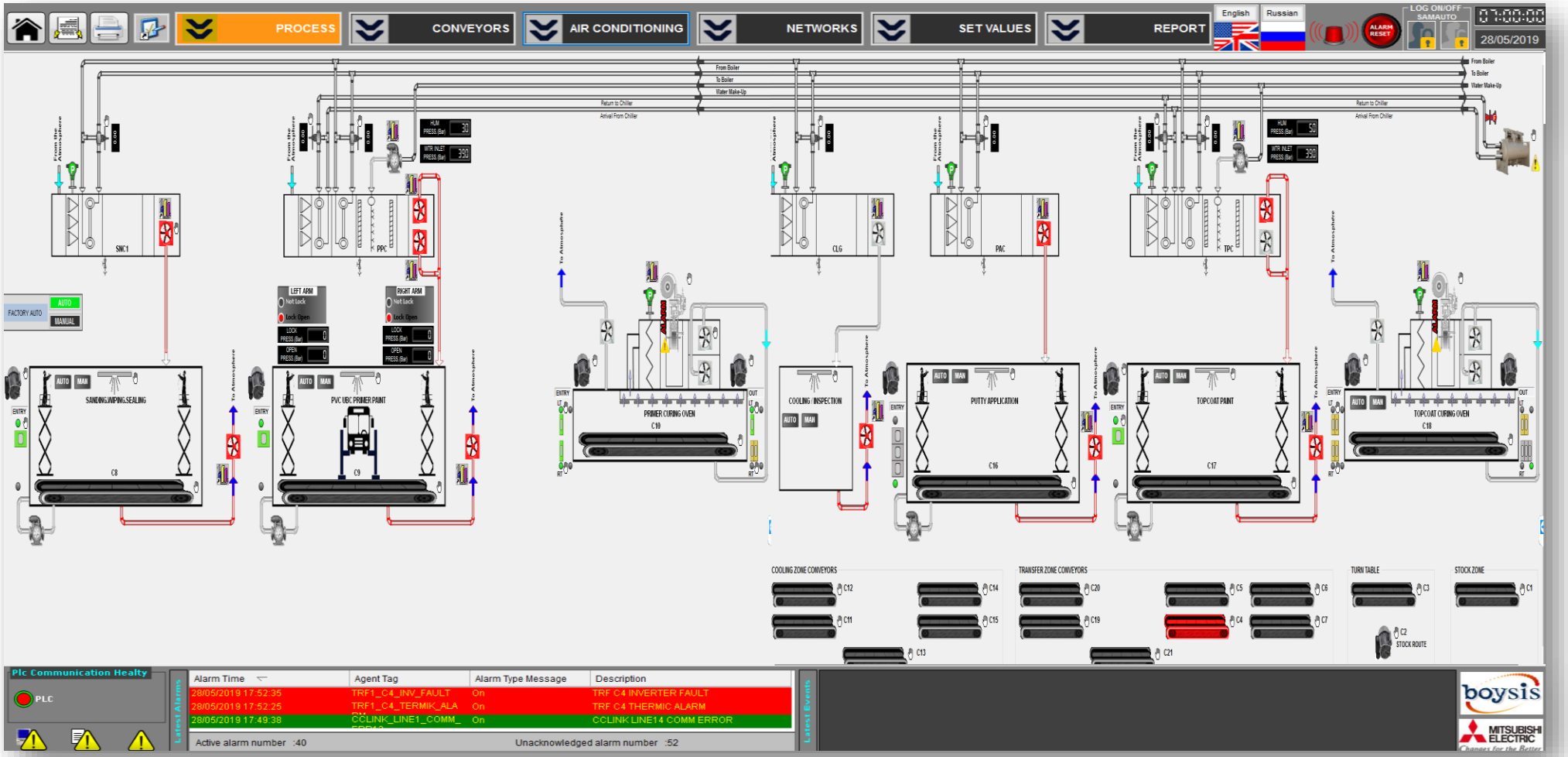
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Process

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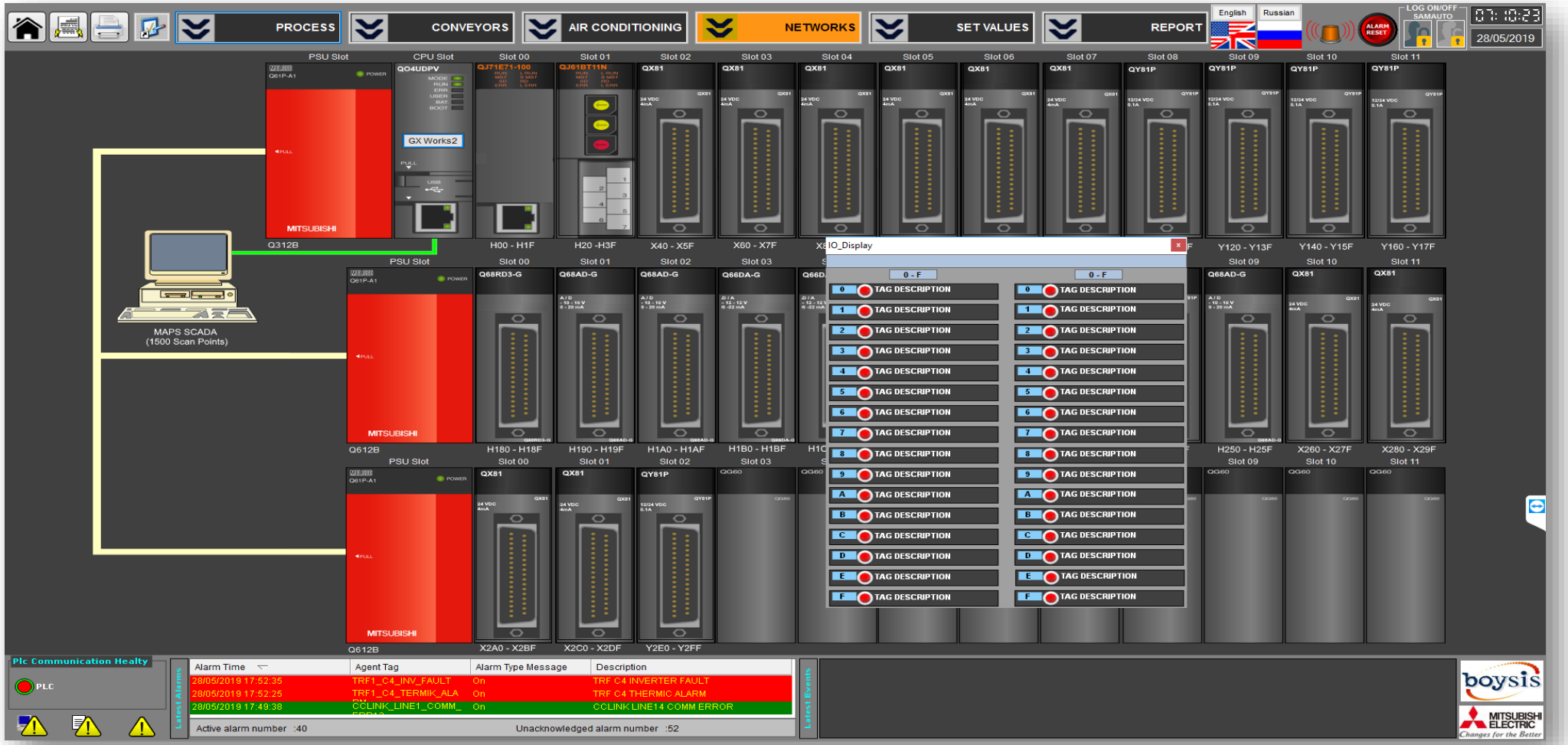
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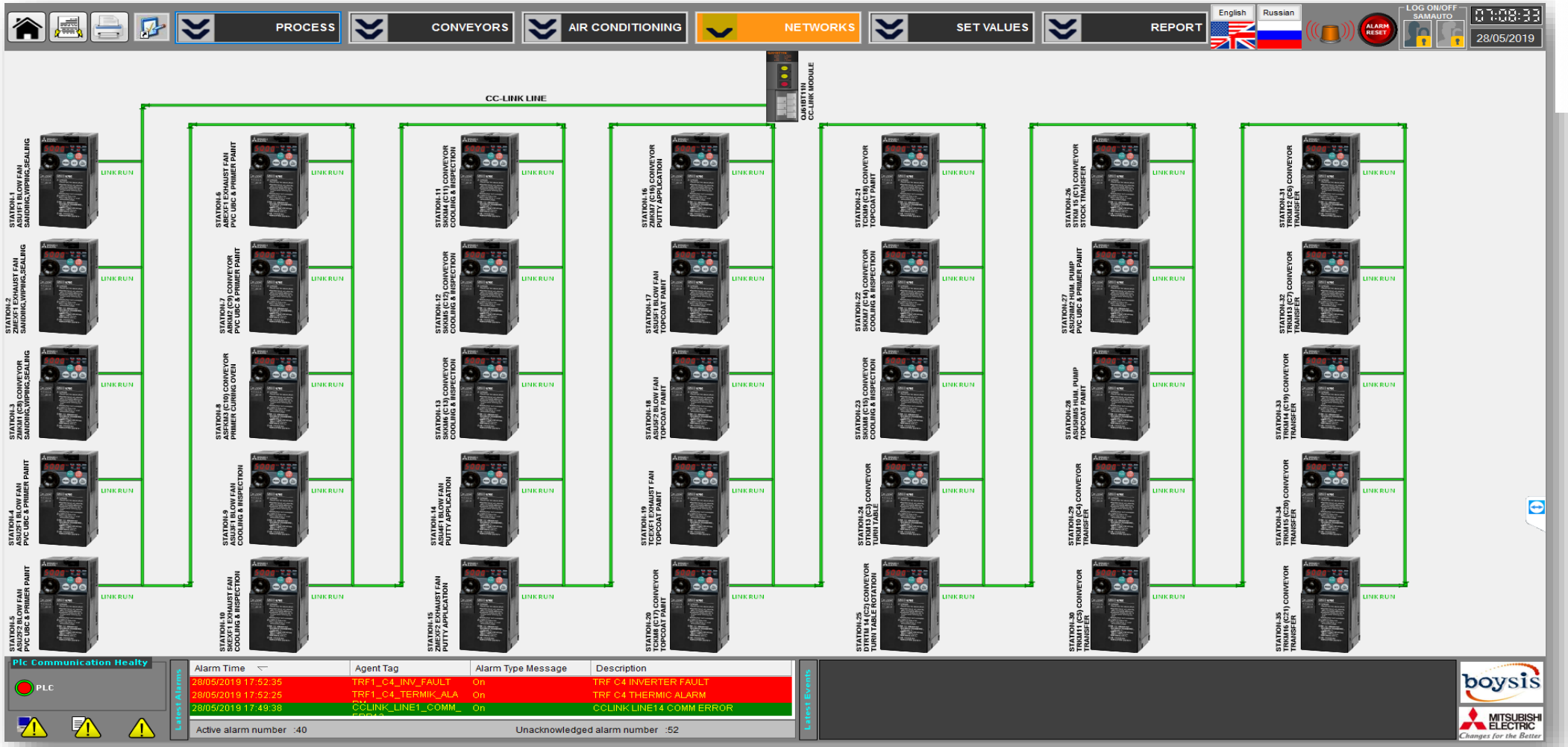
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Network Overview, Diagnostics & Setpoints

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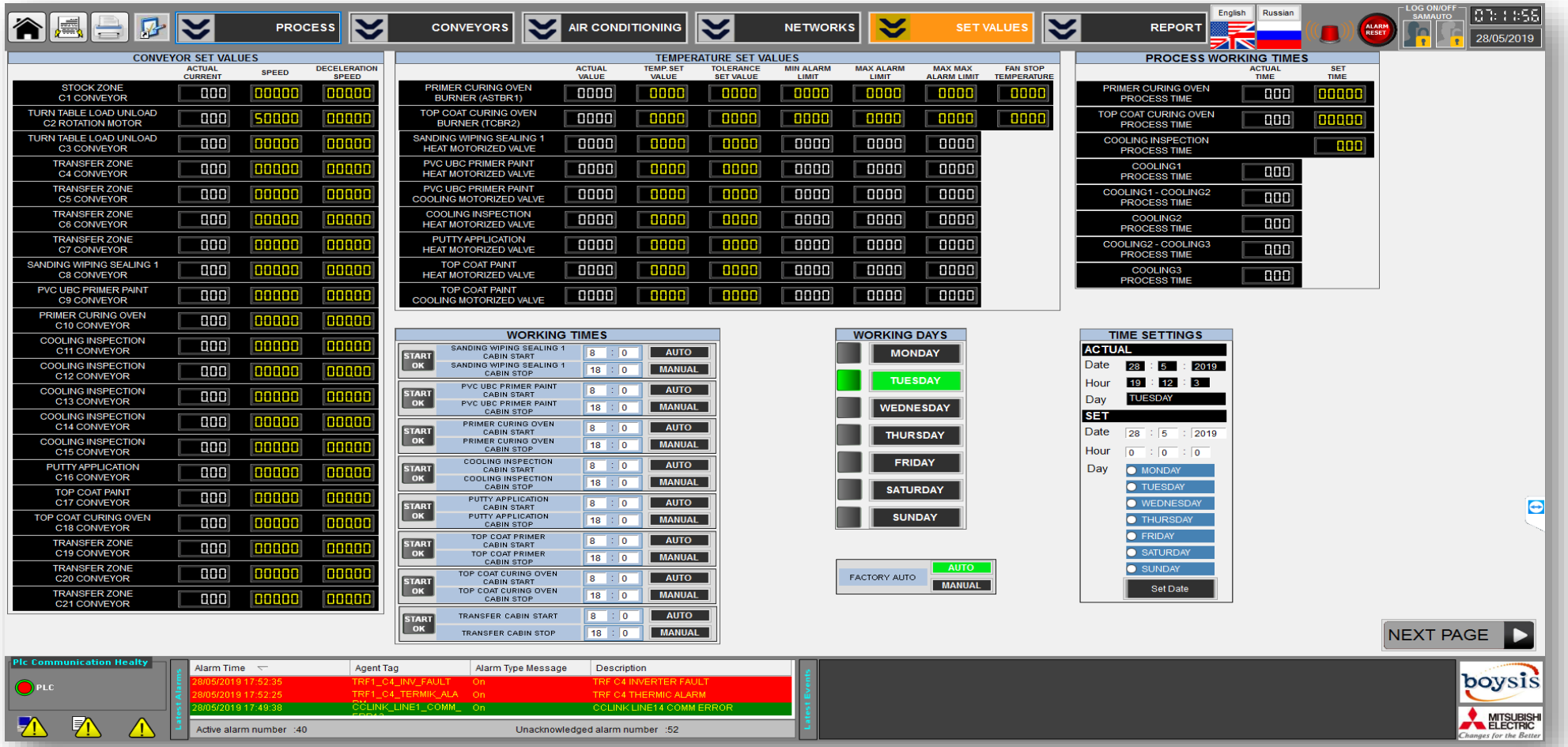


Network Overview, Diagnostics & Setpoints

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Toyota Gearbox Factory, Poland

Andon Production information system :

- 27x MAPS 150 + AMA + IPCs
- Screens with PCs on the back hangs along production site and inform operators and production leader about current statuses of production and errors.
- 1 central MAPS Server with MAPS 5000 and 5 remote clients.



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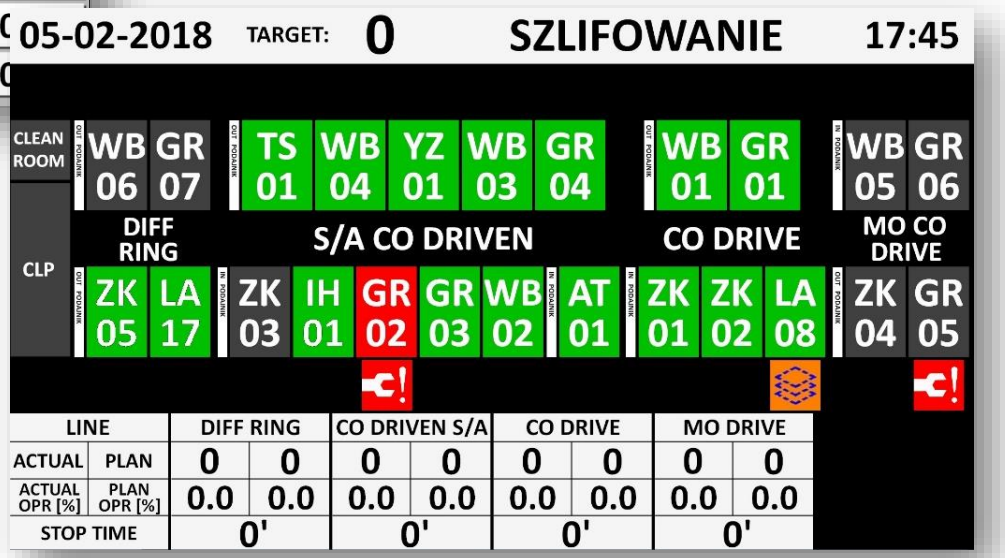
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Toyota Gearbox Factory, Poland

Andon Production information system :

HV MAIN ANDON				
ASSY MAIN				
	Total per Shift	Actual Plan	Stop Time	OPR Actual[%] Target[%]
Main	230	124 / 125	5' TCT: 110	99.0 / 95.0
MACHINNIG				
Case	0	0 / 0	0' TCT: 0	0.0 / 0.0
HSG	0	0 / 0	0' TCT: 0	0.0 / 0.0
Co Drive	0	0 / 0	0' TCT: 0	0.0 / 0.0
Mo Drive	0	0 / 0	0' TCT: 0	0.0 / 0.0
Diff Ring	0	0 / 0	0' TCT: 0	0.0 / 0
Driven S/A	0	0 / 0	0' TCT: 0	0.0 / 0

HV MAIN ANDON			
ASSY MAIN LINE			
TOTAL PER SHIFT	ACTUAL PLAN	STOP TIME	OPR ACTUAL[%] TARGET[%]
250	0 / 13	24' TCT = 110	0.0 / 95.0



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