Healthcare / Pharmaceutical



Eliminate Down-time and Improve 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 **Healthcare 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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Healthcare / Pharmaceutical

Healthcare / Pharmaceutical

Target Areas

- Packaging Machines
- Control Utilities
- Testing Machines
- Hospitals

Challenges

- Productivity
- Energy Efficiency
- Predictive Maint.
- Remote Monitoring
- Reporting

Solutions

- SCADA
- PLC / HMI
- LVS
- VSD & Servo
- Robot/Cobot



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Istanbul IKITELLI Hospital Project, Turkey

The Istanbul Ikitelli City Hospital comprises a 2,354-bed Main Hospital, a 200-bed Physical Therapy and Rehabilitation Hospital and a 128-bed Psychiatric Hospital.

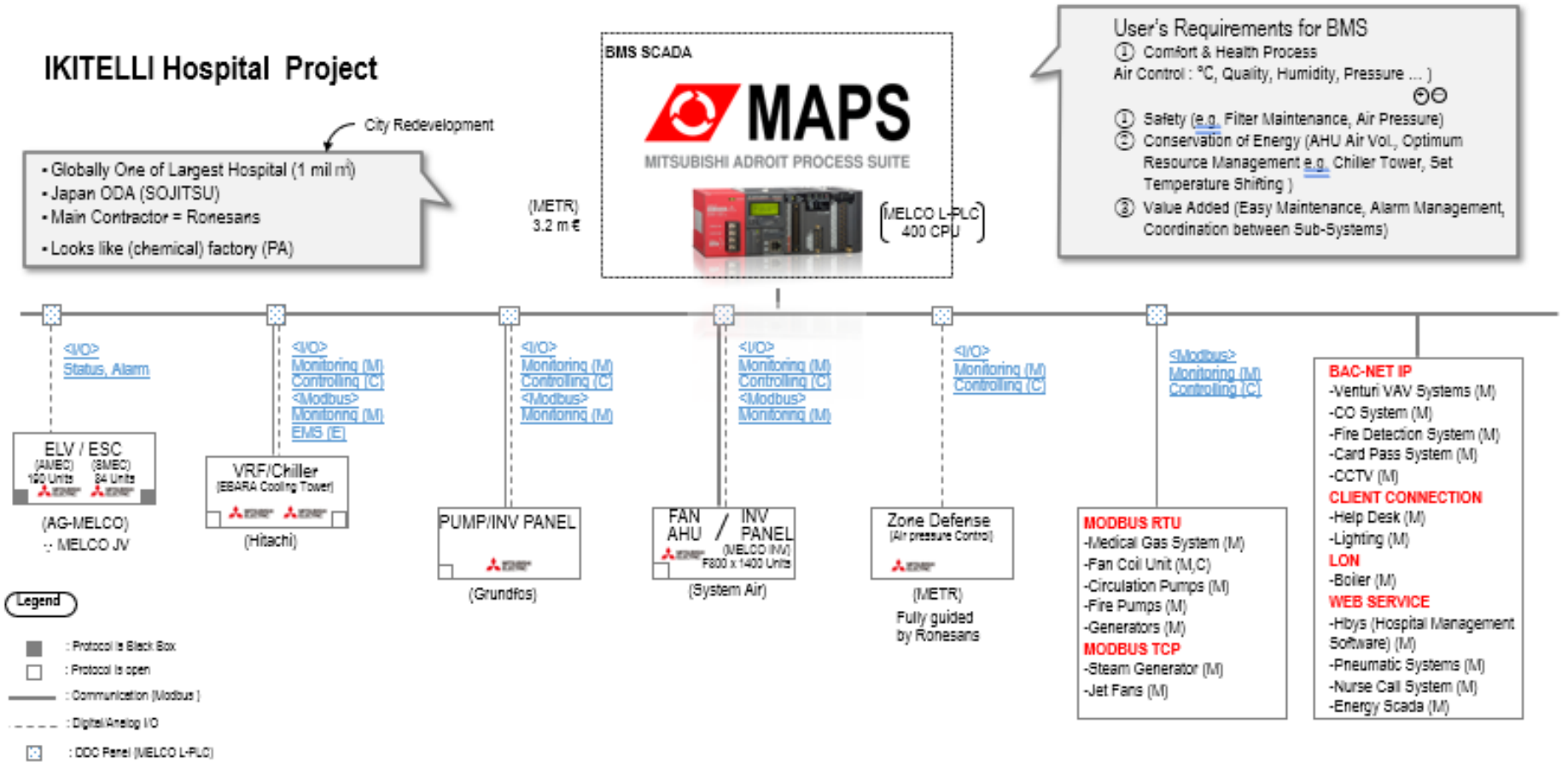
The main hospital facility consists of six buildings surrounding a shared core building and includes the following hospitals:

- General Hospital with a bed capacity of 469
- Cardiovascular Diseases Hospital with a bed capacity of 327
- Neurology and Orthopaedics Hospital with a bed capacity of 311
- Children's Hospital with a bed capacity of 521
- Gynaecology Hospital with a bed capacity of 359
- Oncology Hospital with a bed capacity of 367
- Psychiatry Hospital with a bed capacity of 128
- Physical Therapy and Rehabilitation Hospital with a bed capacity of 200



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Istanbul IKITELLI Hospital Project, Turkey



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Istanbul IKITELLI Hospital Project, Turkey

Mitsubishi Electric's scope of supply for the İkitelli City Hospital Building Management System will consist of the following systems and equipment as well as a centralized control and monitoring software.

Control of Heating, Cooling, Ventilation and Air Conditioning equipment:

- Air Handling Units
- Fan-Coil Units
- VAV Units
- Surgery Control Panel
- Monitoring of Cooling& Heating Water Distribution Systems
- Cooling Towers
- Boilers
- Monitoring Medical Gas System
- Monitoring of Fire Alarm Systems
- Security system and Elevator, Escalator and other sub-systems

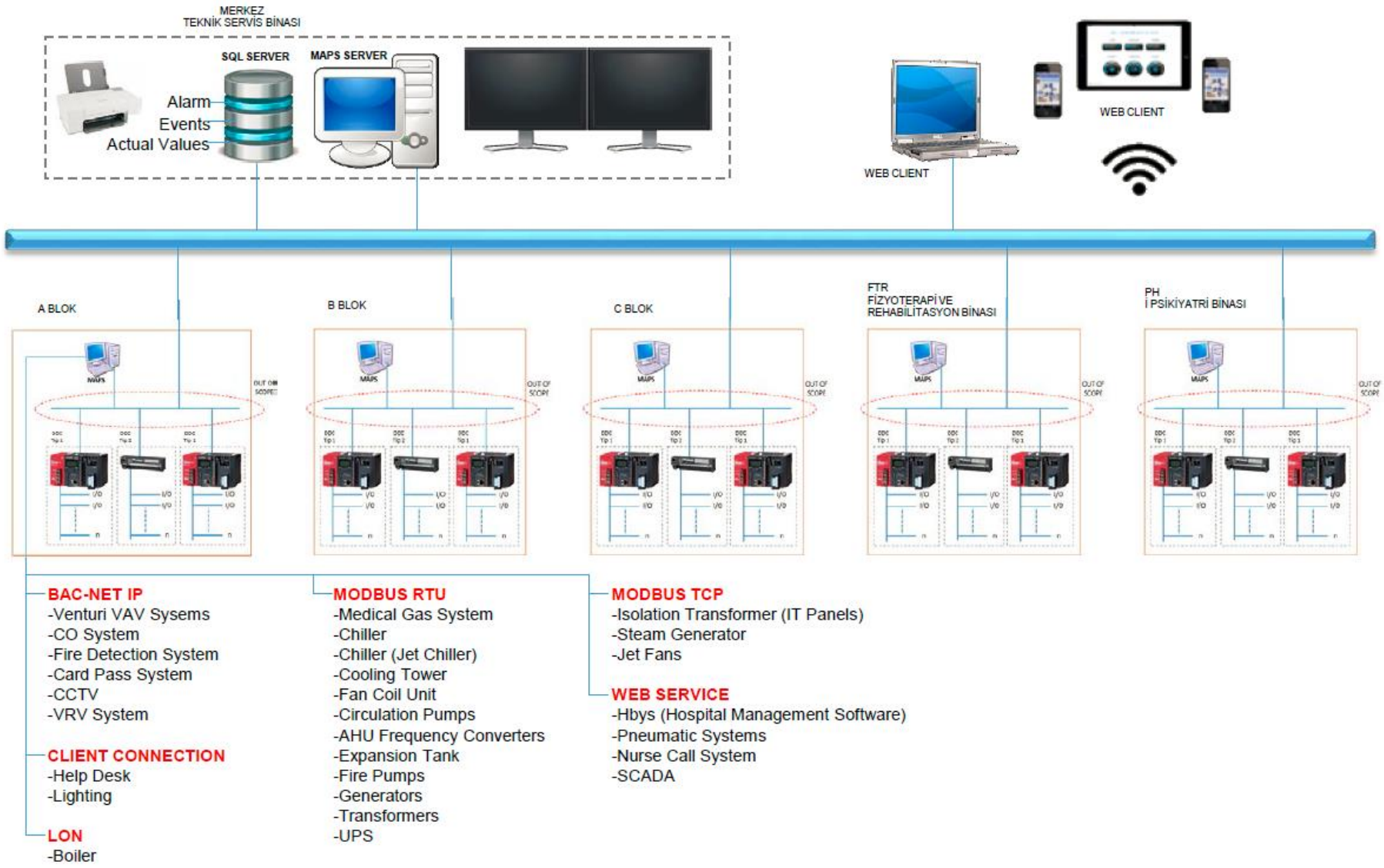
Mitsubishi Electric

- ✓ Project Management
- ✓ I/O Signal lists
- ✓ Field Cabling Project design and revisions
- ✓ Fan coil Modbus Project
- ✓ Medical Gas Modbus Project
- ✓ Integration Riser Diagram
- ✓ DDC Panel Project
- ✓ MCC Typical Project
- ✓ Purchasing of Field Equipment
- ✓ Manufacturing DDC Panel
- ✓ Creating Automation Scenarios
- ✓ Creating sub-functions of control software
- ✓ SCADA system design and commissioning
- ✓ Testing and commissioning of whole system
- ✓ Enforcing and training work safe rules as per «ISG» standard

Scope of Supply

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Istanbul IKITELLI Hospital Project, Turkey



BMS Network Layout

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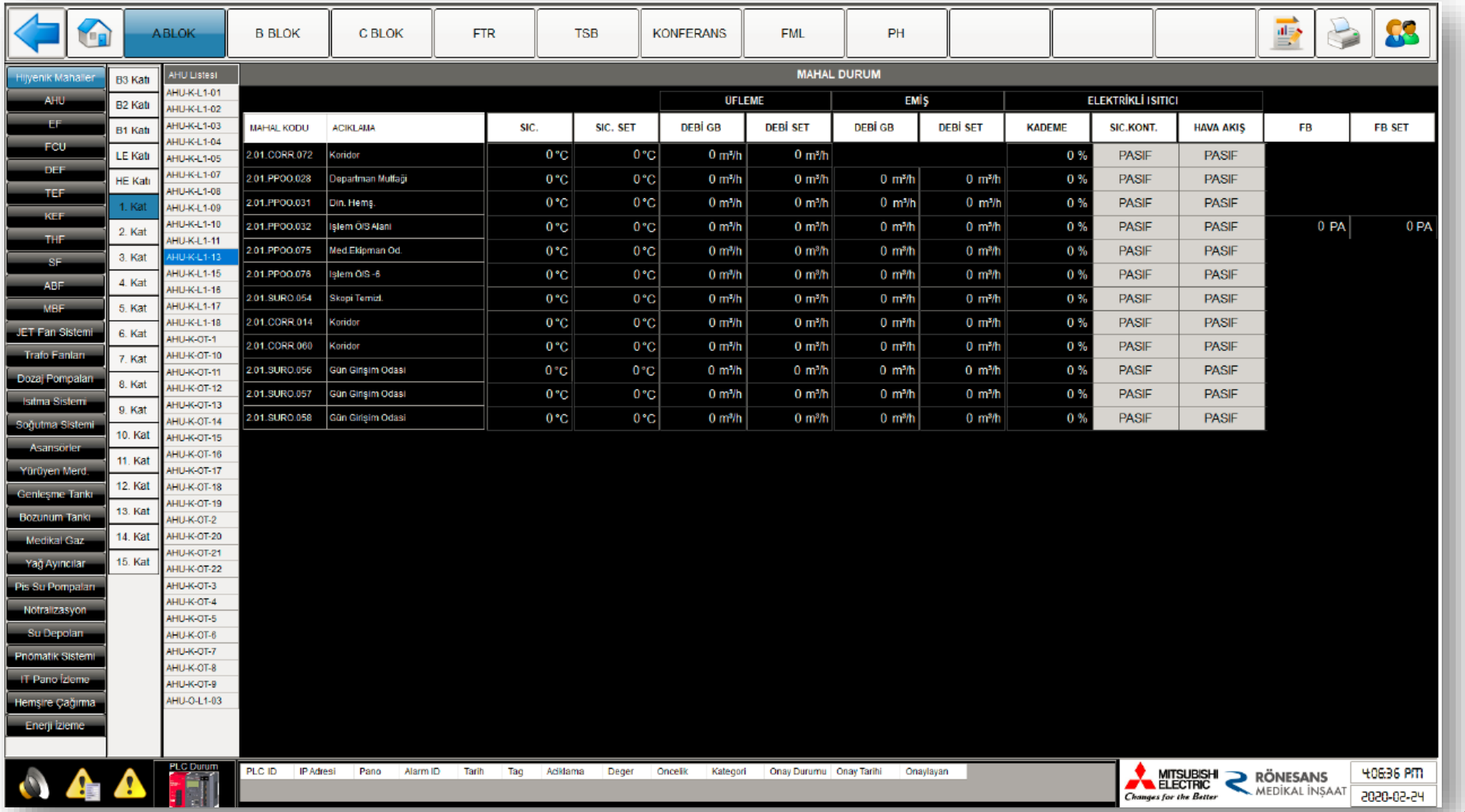
Istanbul IKITELLI Hospital Project, Turkey



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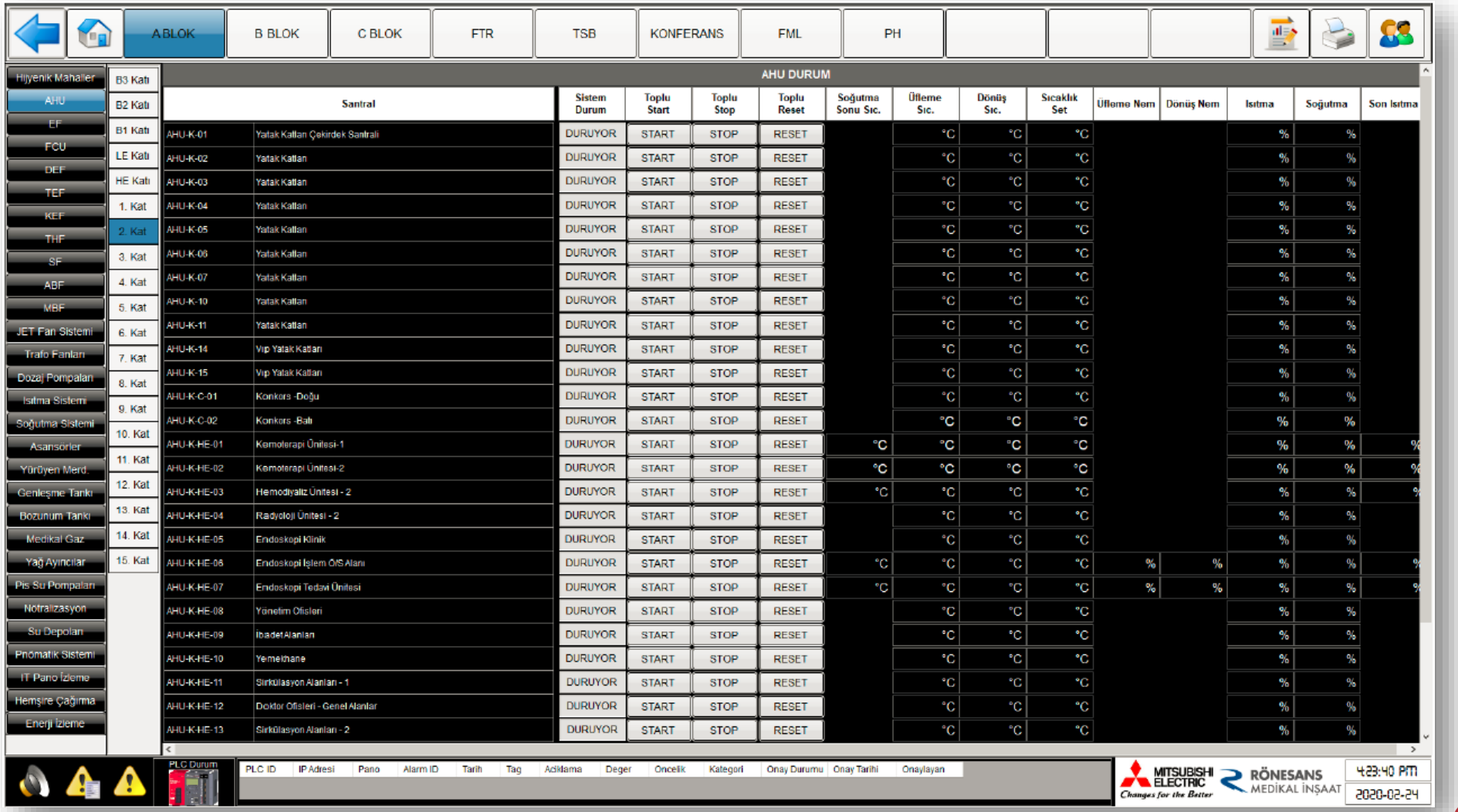
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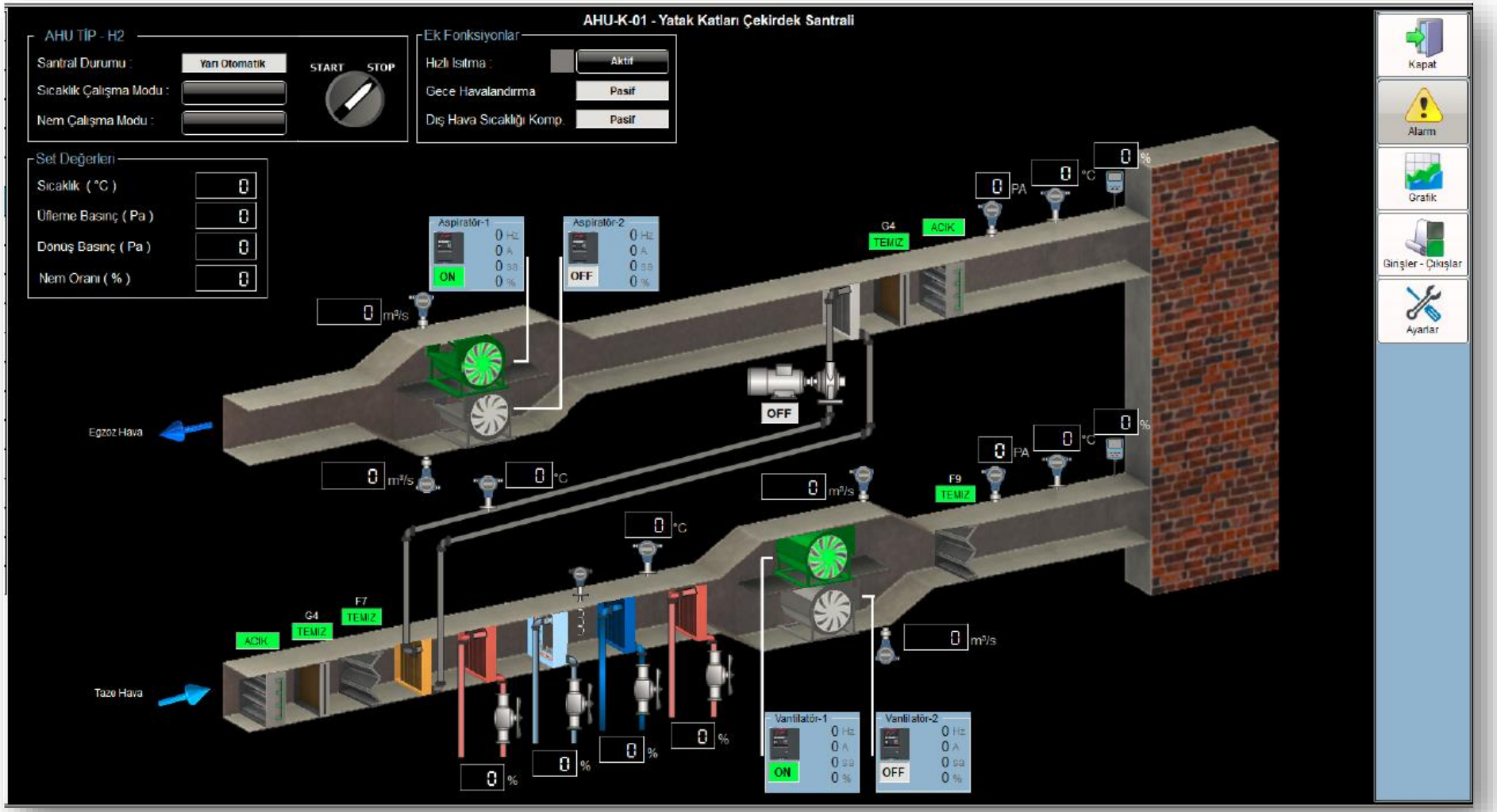


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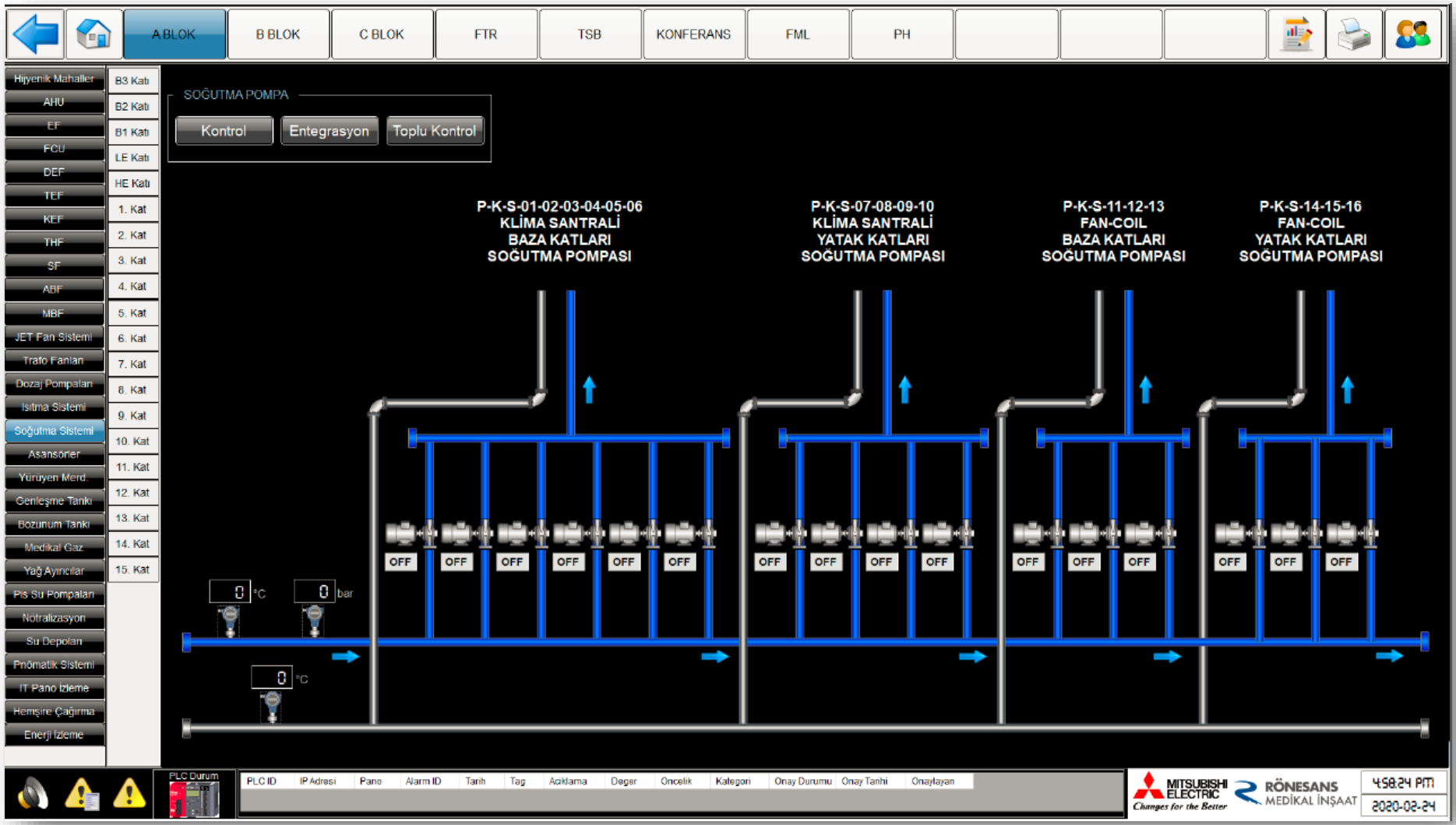
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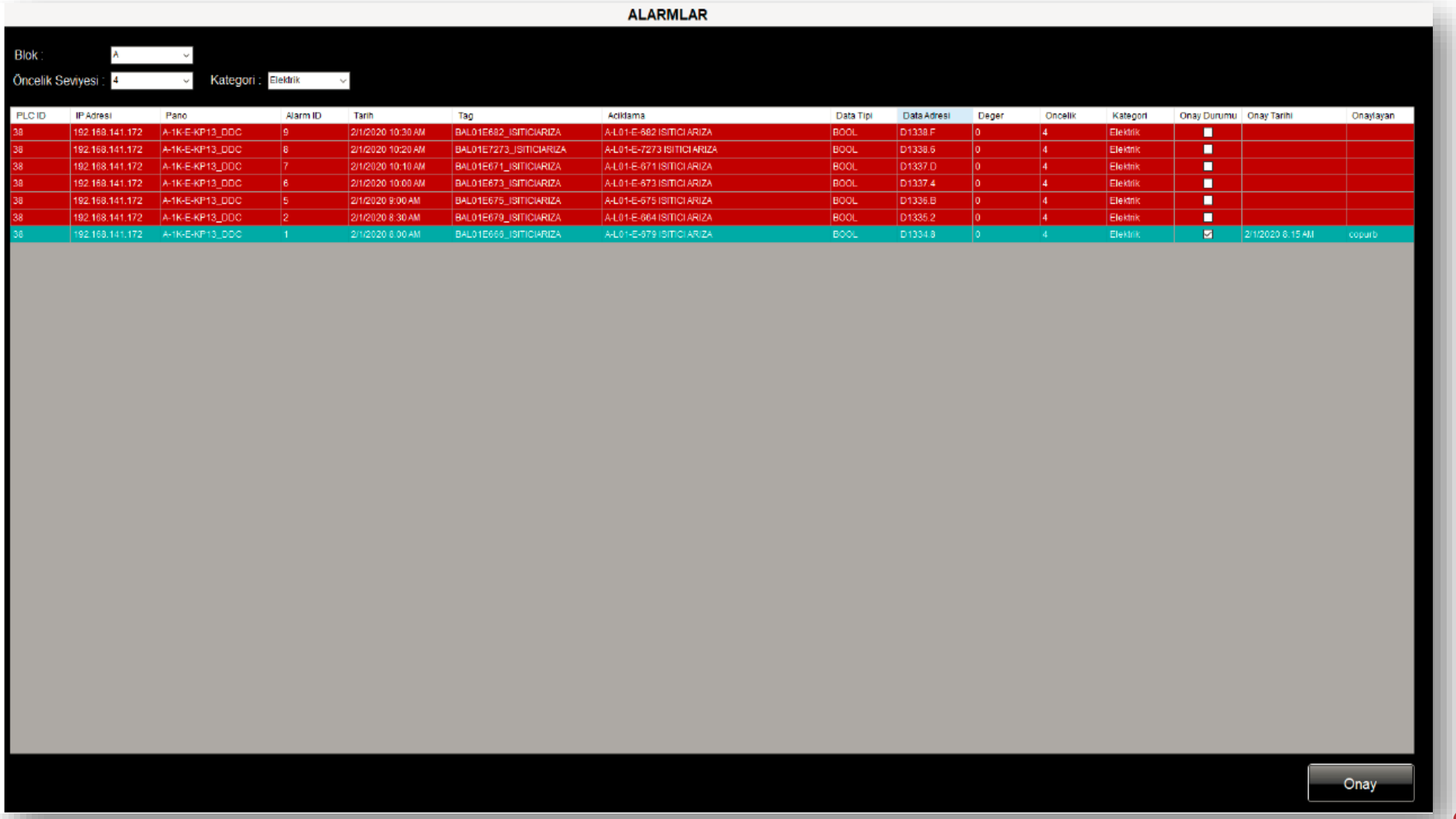
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Istanbul IKITELLI Hospital Project, Turkey



PLC ID	IP Adresi	Pano	Alarm ID	Tarih	Tag	Aciklama	Data Tipi	Data Adresi	Deger	Oncelik	Kategori	Onay Durumu	Onay Tarihi	Onaylayan
38	192.168.141.172	A-1K-E-KP13_DDC	9	2/1/2020 10:30 AM	BAL01E682_ISITICIARIZA	A-L01-E-682 ISITICI ARIZA	BOOL	D1338.F	0	4	Elektrik	☐		
38	192.168.141.172	A-1K-E-KP13_DDC	8	2/1/2020 10:20 AM	BAL01E7273_ISITICIARIZA	A-L01-E-7273 ISITICI ARIZA	BOOL	D1338.6	0	4	Elektrik	☐		
38	192.168.141.172	A-1K-E-KP13_DDC	7	2/1/2020 10:10 AM	BAL01E671_ISITICIARIZA	A-L01-E-671 ISITICI ARIZA	BOOL	D1337.D	0	4	Elektrik	☐		
38	192.168.141.172	A-1K-E-KP13_DDC	6	2/1/2020 10:00 AM	BAL01E673_ISITICIARIZA	A-L01-E-673 ISITICI ARIZA	BOOL	D1337.4	0	4	Elektrik	☐		
38	192.168.141.172	A-1K-E-KP13_DDC	5	2/1/2020 9:00 AM	BAL01E675_ISITICIARIZA	A-L01-E-675 ISITICI ARIZA	BOOL	D1336.B	0	4	Elektrik	☐		
38	192.168.141.172	A-1K-E-KP13_DDC	2	2/1/2020 8:30 AM	BAL01E679_ISITICIARIZA	A-L01-E-664 ISITICI ARIZA	BOOL	D1335.2	0	4	Elektrik	☐		
38	192.168.141.172	A-1K-E-KP13_DDC	1	2/1/2020 8:00 AM	BAL01E666_ISITICIARIZA	A-L01-E-679 ISITICI ARIZA	BOOL	D1334.9	0	4	Elektrik	☑	2/1/2020 8:15 AM	coşarb

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Pharmaceutical Application, Germany

- Project System Integrator is Gea Diessel (using Siemens normally)
- End customer is Bayer Schering,
- Application will be delivered to Japan

The Project Components:

- 450 Valves
- 20 Motors on CC-Link
- 200 Analogs
- 30 PID Control loops
- 180 Sensor Inputs/Outputs

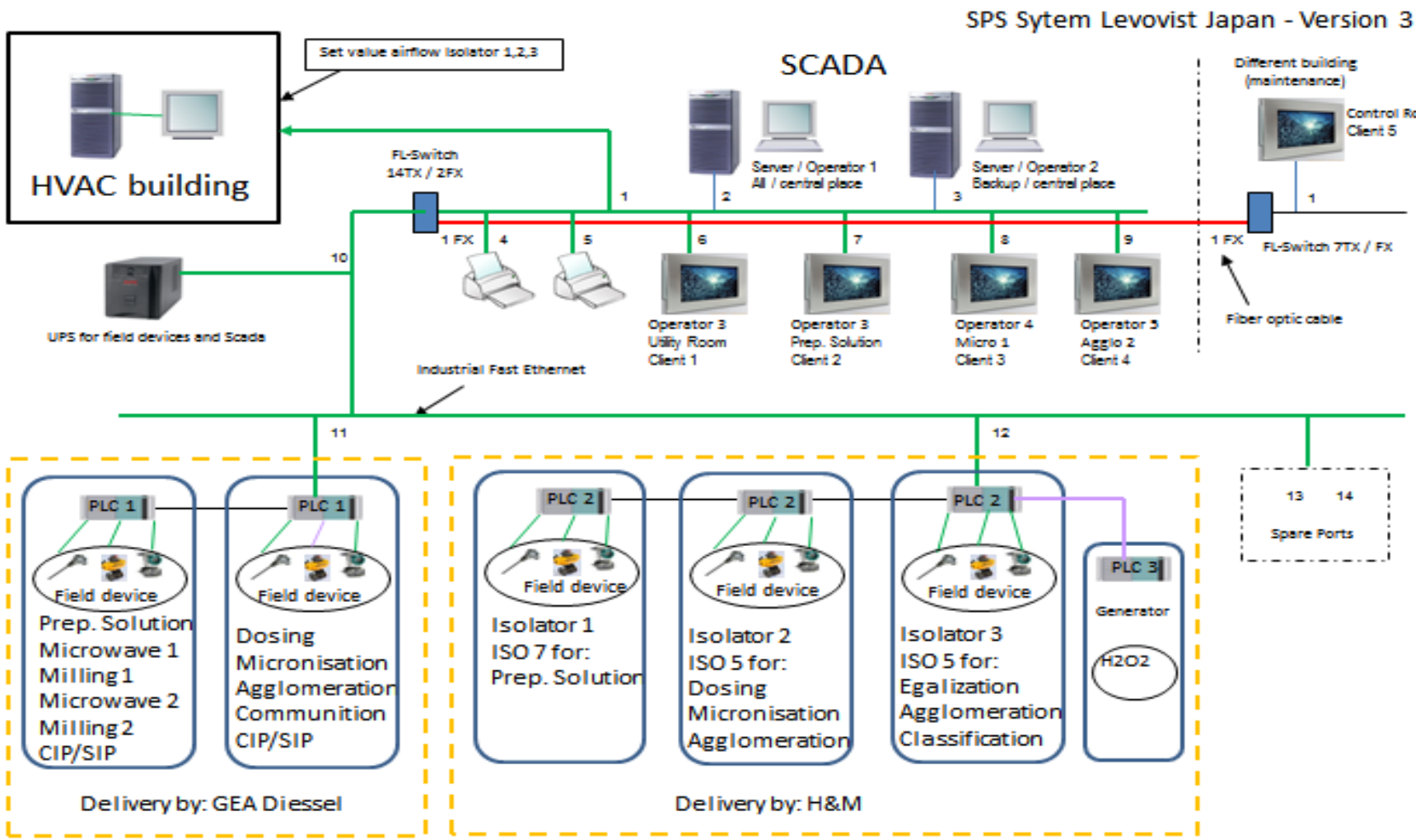
The System / Solution

- Q50UD and Q26UDV PLC
- CC-Link network
- 12 Inverters
- 2 Redundant MAPS Servers
- 7 MAPS Clients
- 21 CFR 11 compliant

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Pharmaceutical Application, Germany

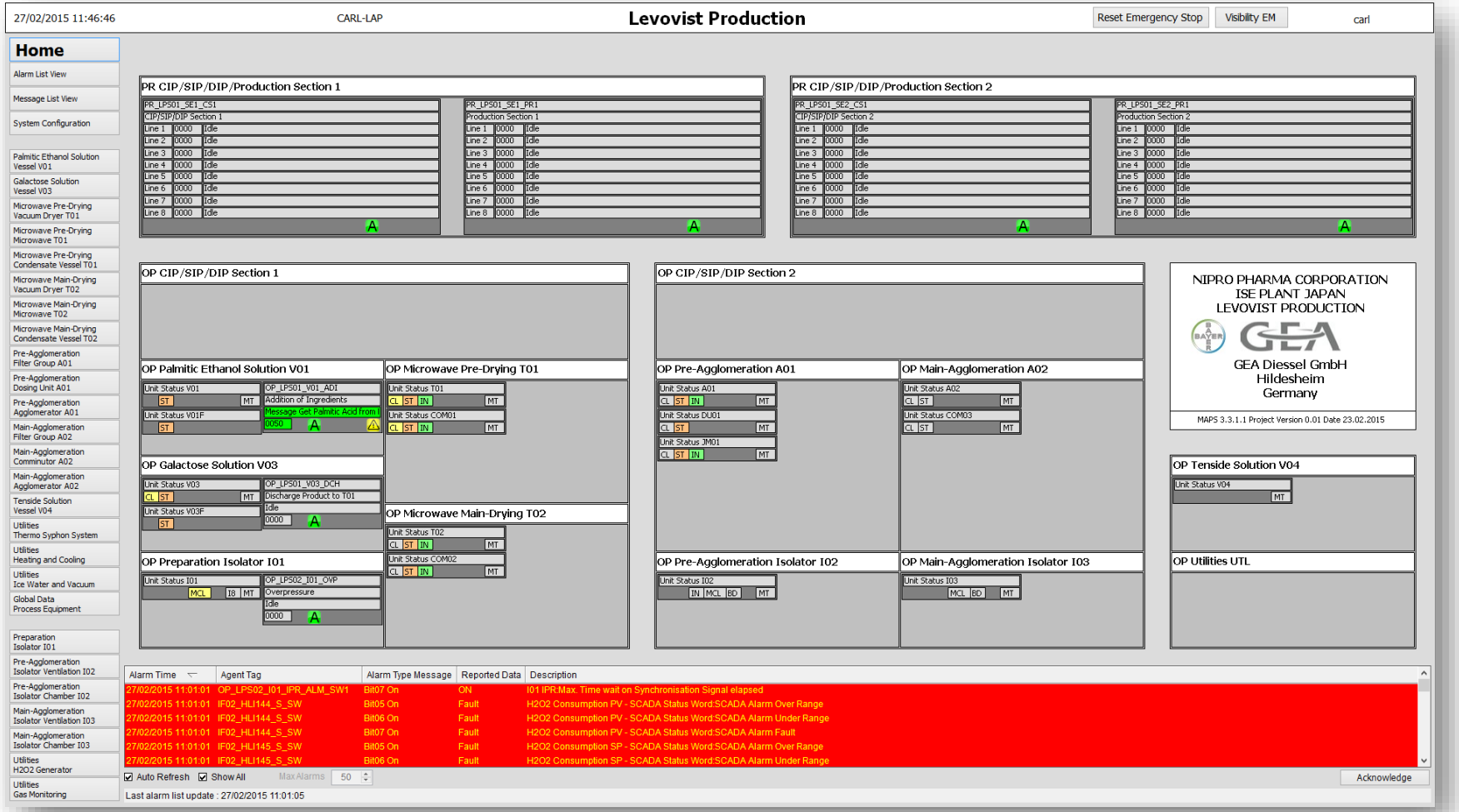
Bayer HealthCare
Bayer Schering Pharma



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Pharmaceutical Application, Germany

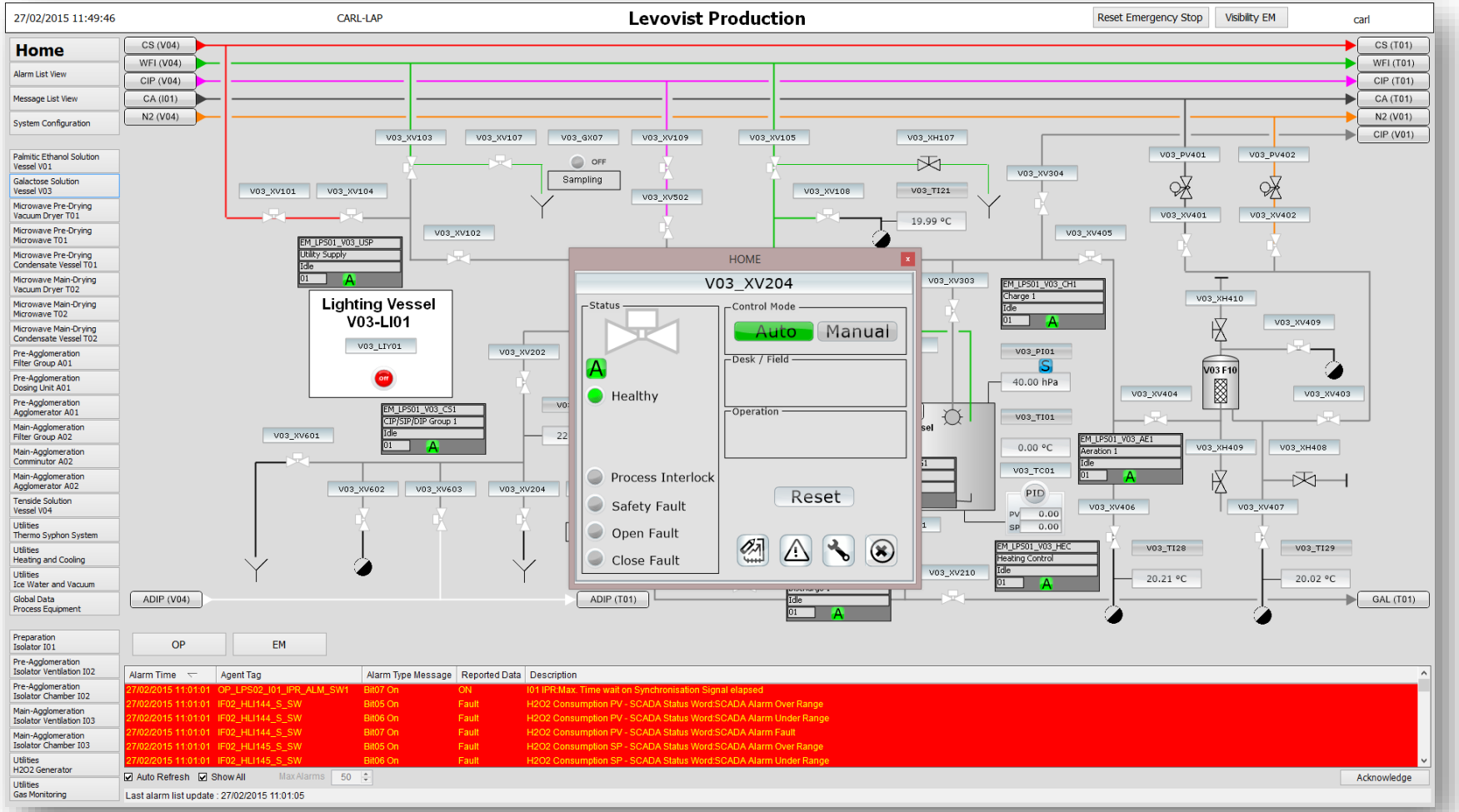
Bayer HealthCare
Bayer Schering Pharma



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Pharmaceutical Application, Germany

Bayer HealthCare
Bayer Schering Pharma



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