SEGMIC ENGINEERING

Solution Empowered by Innovations

Solutions for Efficient and Secure Data Center Infrastructure

Data Center Infrastructure with PLC based Control

As a specialist in PLC-based control, Segmic delivers advanced monitoring and control for data centers and IT facilities. Our integrated approach combines redundant controllers, environmental sensors and DCIM software into scalable solutions that protect uptime and lower energy use.

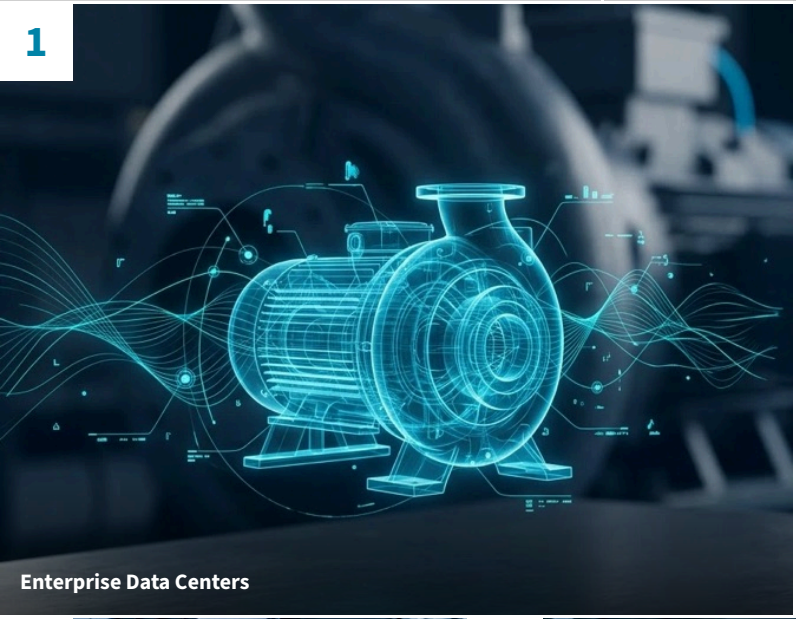
Our solutions are designed for availability and long-term performance, for new halls and upgrades of live facilities. With expertise in platforms such as Siemens, Schneider Electric, Allen-Bradley and many more, we deliver cooling control, power monitoring, environmental monitoring and access control tailored to each tier.

From enterprise and colocation data centers to edge sites, server rooms, telecom shelters and control rooms, our systems keep temperature, humidity, airflow and power within limits and alert the right people before issues escalate.

We ensure seamless integration with UPS, PDUs, chillers and fire-suppression systems, supporting protocols like SNMP, Modbus, BACnet, OPC UA, MQTT and more. Additionally, we enable edge and cloud connectivity for central NOC dashboards.

Application areas for the Segmic control solution

1. Enterprise Data Centers
2. Colocation Facilities
3. Edge Data Centers
4. Server Rooms
5. Telecom Shelters
6. Control Rooms
7. Network Hubs
8. Disaster Recovery Sites
9. Modular Data Centers



From individual technical systems to an efficient, always-on complete solution

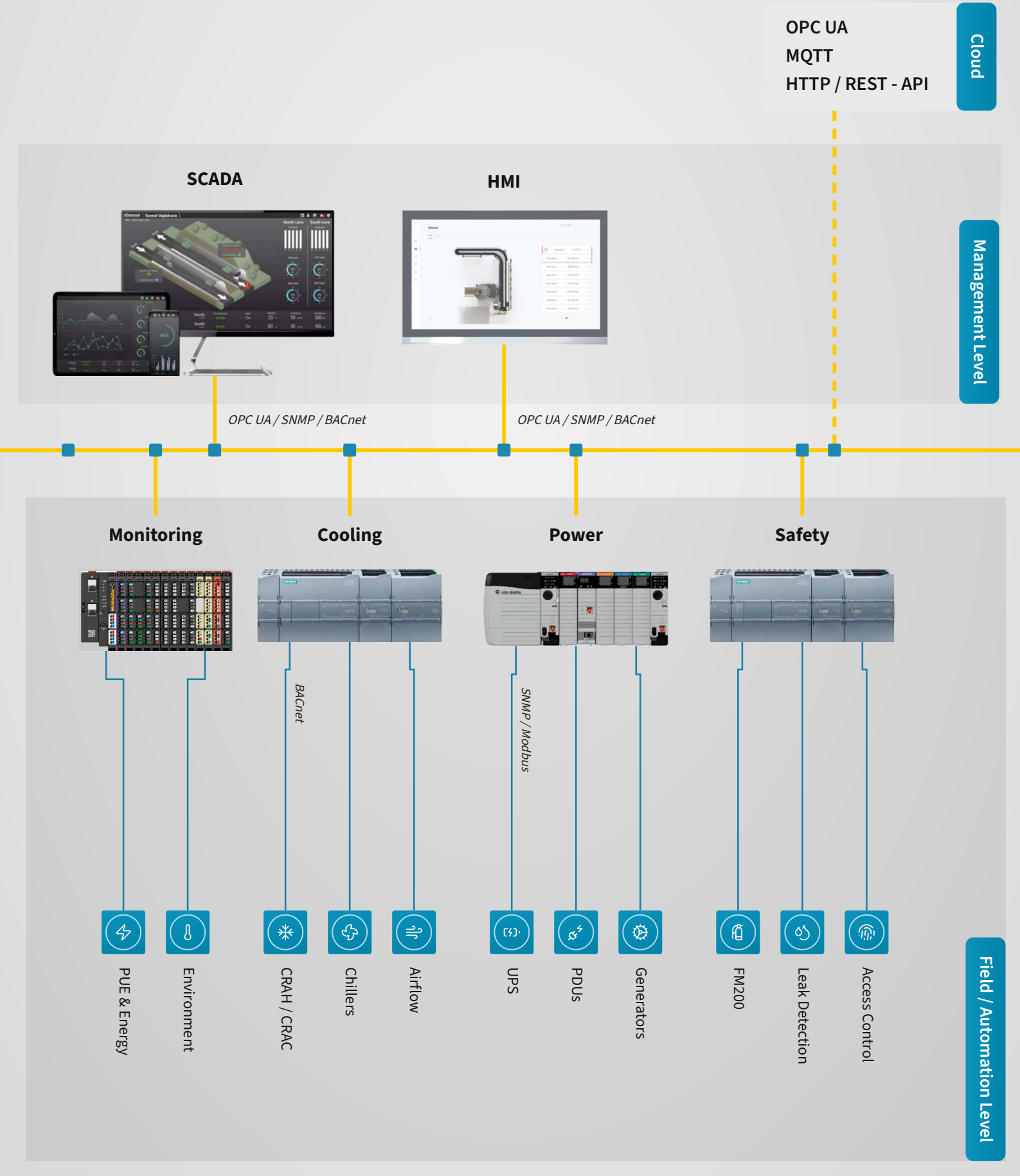
All technical systems integrated in one control system:

- Cooling and airflow control
- Temperature and humidity monitoring
- UPS, PDU and power monitoring
- Fire detection and FM200 monitoring
- Multi-factor access control
- DCIM dashboards and alarm routing

All components for smart data center infrastructure

At Segmic Engineering, we automate critical IT environments in a comprehensive, scalable, and future-ready manner. Redundant controllers and decentralized I/Os integrate cooling, power and safety systems through standard building and IT protocols.

This approach gives one live view of PUE, capacity and risk, significantly reduces manual rounds and lets cooling follow the actual IT load.



Website

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