SCADA Supervisory Control and Data Acquisition





AVEVA REGISTERED System Integrator

Build a smarter future together incorporating the latest IIoT technologies.

existing productive SCADA systems

Expand and maintain 🕢 🚫 Plan, test & implement future oriented solutions

Ensuring you keep pace with Industry 4.0

We work closely with our customers throughout the entire project life cycle, from architecture design, development and testing to system commissioning.

The SCADA device integration is done over a variety of different communication protocols depending on the features provided by the device itself. Therefore, Sokratel has built up detailed knowledge about field busses used for connecting devices, such as EtherCAT®, PRO-FINET[®], PROFIDRIVE[®], Modbus[®], CAN or FlexRay[™].

For a platform independent information flow OPC-UA is the way to go and this is also the reason why Sokratel is a member of the OPC Foundation™. Developing OPC-UA clients as well as OPC-UA servers is part of our daily business. Moreover, we consult our customers on the usage of the protocol and do evaluation and acceptance tests.



The Industrial Internet of Things

As intelligent field devices increasingly connect via the internet, the industrial internet of things (IIoT) becomes reality, and we are driving this future together with our customers. This enables cloud-based data acquisition, control, monitoring, real-time analysis, and predictive maintenance, and much more, resulting in faster response times and cost reductions.

Utilizing the latest container architectures in IIoT SCADA enables convenient deployments and scalable

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applications. Adopting a microservice approach allows for extending or replacing the old monolithic system architecture. Microservices, being small and self-contained, are easier to implement and maintain, offering dedicated features for the system without significant effort.

SCADA microservices and extending applications are typically developed in object-oriented languages such as Java, C++, C#, or Python. However, for modern requirements and architectures, languages like Go or Rust may be needed, and Sokratel is equipped to support such projects.

Software AG, with its Cumulocity IoT product, is our biggest partner in the modern IIoT landscape and we are developing and supporting our customers in using the platform.

Databases

An important aspect in these environments are databases. To fulfill all the different requirements of a system e.g. parameter management, storing meta and signal data or to have the capability to store high resolution data, different database structures are required. Most database knowledge at Sokratel has been built up for relational (e.g. SQL, MS Access), document oriented (e.g. MongoDB) and time series (e.g. InfluxDB) databases.



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