Orchestra

INSYS icom

Integrating decentralized system landscapes using INSYS icom and Orchestra juno

soffico GmbH

Location: **Augsburg, Deutschland**
Sector: **Software-Developer**
Website: **www.orchestra.soffico.de**

soffico is an international company providing tailored, future-proof software solutions. soffico's core software, Orchestra, enables the connection of internal and external IT systems securely and comprehensively. In addition, Orchestra juno connects decentralized system landscapes easily.

We provide a flexible, geographically independent infrastructure plus hybrid cloud services to help integrating traditional, local systems and save resources. Large quantities of data and information can be stored and accessed locally.

INSYS icom

Partner Location: **Regensburg, Germany**
Sector: **Industrial data communication**
Website: **www.insys-icom.com**

INSYS Microelectronics GmbH has been a reliable partner for industrial data communication, security analysis solutions and testing solutions since 1992.

INSYS icom specializes in components and solutions for secure communication in M2M and IoT applications. Its hardware and software solutions enables the connection of machines, equipment and other devices remotely and transfer their operating data.
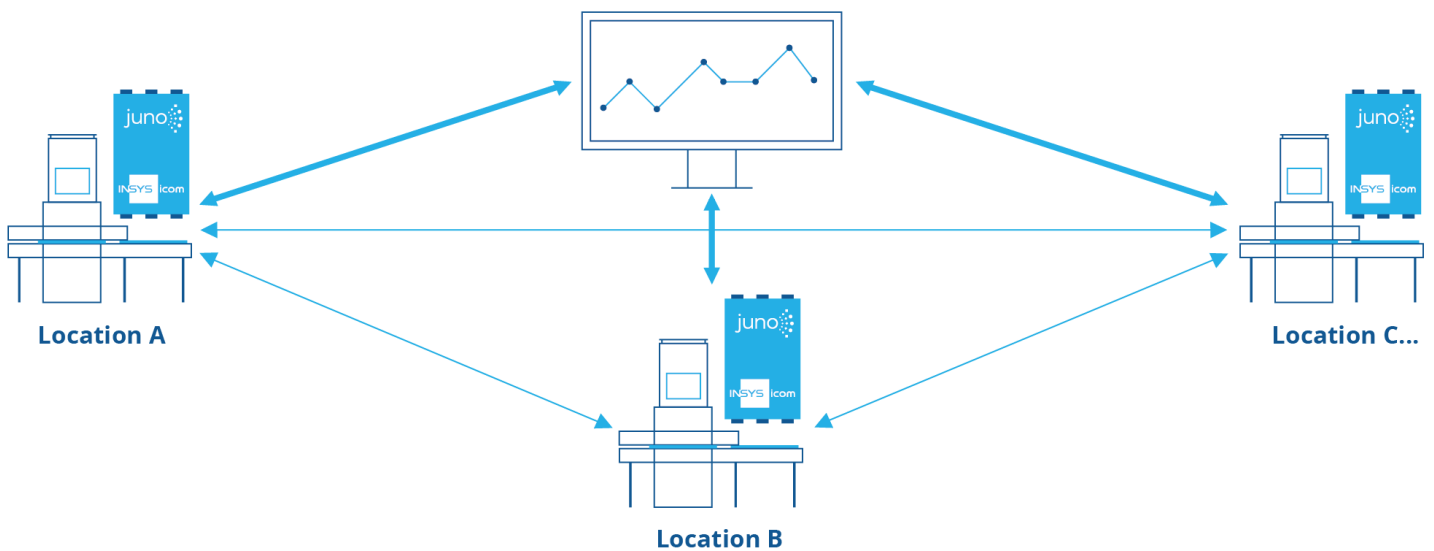
The core features of INSYS icom's hardware and software solutions include remote maintenance, remote control, condition monitoring and data networking, making them the perfect bridge between IT and OT.

Challenges

- Provide a flexible, geographically independent infrastructure

- Safeguard investment by retrofitting existing IT systems to meet current standards

- Provide information by linking decentralized systems with internal and external IT systems

- Enable channelled communication between decoupled layers

- Keep configuration effort to a minimum

- Ensure reliable and fail-safe operation of decentralized, robust systems with straightforward support channels

Solution

- Roll out the juno plug-and-produce concept, based on INSYS icom gateways and the juno edge client

- If the network connection is disrupted, juno buffers the data and serves as an intermediate module that maps the data from the old to the new protocol

- Provide a preconfigured solution that pre-processes raw data quickly and easily right at the equipment or machine, aggregating it and passing it on to communication partners

- Reduce network traffic by pre-processing locally and sending filtered data to superordinate systems

- Integrate machine data using standard protocols

- Enable secure remote maintenance and KRITIS-compliant communication

Benefits

- Fit for the future thanks to flexible retrofit options
- Optimization of production/business processes
- Data provision for forward-looking analyses
- Local data buffering ensures reliability
- Can be configured externally
- Remote maintenance function allows you to react quickly

- Basis for 'data-to-customer' business models
- Maximum performance is achieved by distributing computing capacity
- Speedy data processing enables scalability
- Saves resources, requires minimal configuration effort
- Quick and easy to enhance
- KRITIS-compliant

Location A

Location B

Location C...

Success story: Decentralized integration with INSYS icom and Orchestra juno

With the help of standardized protocols, around 150 decentralized locations (e.g. water supply plants) are to transfer data from their systems and equipment to external customer and supplier systems.

Decentralized installations are used to convert to state-of-the-art technologies and for local pre-processing, as well as to integrate data in hybrid cloud systems.

The INSYS icom gateway's remote maintenance function allows reacting quickly and efficiently in an emergency and taking action in the event of malfunctions.

The hardened operating system icom OS allows smooth, secure KRITIS-compliant communication between distributed systems.

Benefits

- Enabling external configuration makes the system fit for the future
- Retrofitting – juno also upgrades existing systems and machines to meet current standards
- Data can be pre-processed locally (filtering, aggregation)
- New equipment

Your contact to soffico

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