Capula's portfolio of cloud-based software solutions have been created to demonstrate the possibilities of a connected industrial enterprise using the latest Industrial Internet of Things technologies (IIoT). The OPUS Building Performance Management solution allows for the smart operation of organisation's complete systems, from any location globally, through a single, integrated interface.

OPUS addresses the challenges faced by industrial companies who operate a wide variety of built assets, from production facilities to warehouses to R&D laboratories and offices where equipment has traditionally been managed and controlled independently leading to inefficiencies, duplication of effort and high costs.

Using advanced IIoT technologies based on PTC's Thingworx platform, OPUS integrates all those services into a single platform, regardless of the equipment manufacturer or communication protocol used. The solution supports integration with a large number of building control and monitoring systems from different vendors through the support of hundreds of communication protocols, both open standards based and product vendor specific.

Features include a highly configurable advanced operator user environment, the OPUS OpsCentre, which provides a single management console for global views across multiple locations and the assets operating within them.

The OpsCentre is capable of deploying information to users depending on their role, utilising multi-touch technologies. OPUS is fully customisable according to industry sector and can be deployed to facilities incrementally or to a complete new build or factory expansion project. It is simple to set up, manage and service and has been built with operators and field service technicians in mind.

Business benefits

* Improved insight from access to smart reporting

* Energy cost savings

* Simplified control as industrial processes are integrated with office systems

* Improved operations due to enhanced visibility of production processes and assets

* Improved resource efficiencies reduce environmental impact

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Dynamic reporting features deliver scheduled and custom data automatically, integrating multiple system data sources and combining both real-time and historical data. Performance data is also available to provide a clear picture of the situation on the ground at any one time, offering a decisive edge so that targeted measures can be implemented immediately. OPUS supports businesses by automated collection and evaluation of any energy or environrnental data needed as a basis for decision making. Energy and environmental information can be clearly displayed in a variety of formats from performance indicators, energy analysis, trend curves, alarm message lists and events as well as complex graphical reports.

Capula has always focussed on providing its customers with the ability to monitor, understand and control the performance of assets. Now utilising the latest technological advances, OPUS enables telemetry, SCADA and any industrial data to be delivered directly to your mobile device. The mobile app offers significant benefits as it can be fully customised and it simplifies the set-up of the technology features. The app also facilitates requests for service and support assistance for production equipment and other assets.

OPUS is fully future-proofed and ready to accommodate advances in hardware architectures as well as cloud services and connects to existing cloud services for data normalisation, analytics and workflow automation using various standard open protocols such as HTTPS, WebSockets and MQTT.

OPUS features:

- Advanced operation user interface
- Building system integration
- Distributed architecture
- Business system integration
- Open standards communications
- Energy/environmental data management
- Energy consumption optimisation
- Performance analysis
- Dynamic reporting

OPUS operates as a single platform across a range of operational functions including:

- HVAC control and plant monitoring
- Energy monitoring
- Manufacturing operations
- Materials handling
- Inventory management
- IT system monitoring
- Electrical power distribution
- Fire systems monitoring
- Security and CCTV
- Access control
- Lighting control

Security and Privacy

As cyber attacks continue to evolve and become more targeted and destructive, it is of paramount importance to businesses that their automated operations and processes function reliably and securely at all times. The serious consequences of a security breach could prove catastrophic for businesses both in monetary terms and to their professional reputation. With OPUS, security has been factored into the solution from the outset, enabling it to withstand even the most malicious cyber threats.

System endpoints and gateways are configured to encrypt both the client's data and the software binary installed. To offer further safeguards, encryption and decryption functions have also been set up to protect data that is being transmitted both to and from the endpoints/gateways from the cloud offering an extra level of sophistication to OPUS's defense system.

Our people are also highly skilled and have achieved the Global Industrial Cyber Security Professional (GICSP) and the Certified Information System Security Professional (CISSP) certificates. Our professionals are therefore equipped to address vulnerabilities before they become major crises, thus ensuring the complete protection of our client's most valuable assets.