systerel
Safe real-time solutions

PRESS RELEASE

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Systerel introduces a high-performance OPC UA aggregator for Industry 4.0

Systerel, in collaboration with Renault Group, is developing a solution to accelerate the digital transformation of industrial sites. This high-performance, secure, and interoperable OPC UA aggregator is designed for real-time data collection and analysis.

Centralizing and securing production data

With the rise of Industry 4.0, production sites are generating ever-increasing volumes of operational data. This data must be collected, standardized, and secured without compromising service continuity. To address these challenges, a high-performance and secure data aggregator enables real-time monitoring and advanced exploitation of industrial data.

Co-developed by Systerel and Renault Group, this new solution is tailored to meet the specific requirements of large-scale industrial data integration.

Local, real-time aggregation of production data

This aggregator collects data directly from production lines while preserving their cybersecurity and without disrupting operations. It provides unified and secure access to industrial equipment, facilitating supervision and advanced data analysis.

"*This equipment makes it possible to collect data only once, regardless of the number of applications using it, thereby reducing the load on production equipment. In addition, OPC UA cybersecurity features, supported by the S2OPC component (CSPN-certified[1] by ANSSI), provide strong protection for the underlying equipment,*" explains Vincent Lacroix, Head of the Products Department at Systerel.

It is based on the OPC UA standard, defined by IEC 62541, which is recognized for ensuring interoperability, reliability, and cybersecurity in exchanges between industrial systems.

The OPC UA aggregator developed by Renault Group and Systerel is now deployed in the field. It is capable of **collecting up to 200,000 data points and processing up to 50,000 value changes per second**, while ensuring efficient data aggregation.

A collaboration built on complementary expertise

Within this strategic partnership, Renault Group brings its proven experience in large-scale industrial data operations. For several years, as part of its "industrial metaverse" program, the Group has developed a supervision system of its production assets based on data modeling, leveraging OPC UA to collect and structure large volumes of data in the Cloud, enabling efficient data usage.

[1] **CSPN (First-Level Security Certification)** certifies that a product has been evaluated by ANSSI (the French National Agency for the Security of Information Systems) using a realistic attack methodology, confirming its robustness for use in sensitive industrial environments.

Systerel contributes its recognized expertise in OPC UA implementation, software development with real-time constraints, and industrial cybersecurity. An active member of the OPC Foundation for over 10 years, the company notably develops the S2OPC library, which is both CSPN and OPC UA certified.

The OPC UA aggregator represents the first building block of a broader collaboration aimed at providing industrial stakeholders with an ecosystem of open, secure, and high-performance tools to accelerate their digital sovereignty.

About Systerel

For over 20 years, Systerel has distinguished itself through its expertise in the design and assessment of real-time critical systems. As an independent engineering company, it specializes in the development, validation, and evaluation of “zero-defect” systems, based on proven expertise in formal methods, safety engineering, and industrial cybersecurity.

Through multiple successful OPC UA implementations in demanding industrial environments, Systerel has established itself as a recognised reference in this technology.

As an active member of the OPC Foundation, Systerel contributes to the evolution of OPC UA technology and its integration into French and European industrial standards.

To find out more about us: www.systerel.fr/en