iTAC
SOFTWARE

Press release

The manufacturing industry needs innovative and secure software solutions

The digital future must be secure: MOM from iTAC provides security at all levels

Montabaur, 20 June 2024 – Increasing digitalization and networking are creating more gateways for cyber threats. Protecting sensitive production data and ensuring business continuity are therefore important for companies. And the security starts with the software in use. A holistic approach to security – from architecture and software design to implementation, testing and deployment – is crucial here. The holistic production management system (MOM) from iTAC Software AG is designed to do exactly that.

"In an increasingly networked world, in which the control and optimization of production processes must be raised to a new level, new types of software solutions are needed. This is where modern MOM systems come in, representing an evolutionary development of MES," explains Volker Burch, Vice President R&D at iTAC Software AG.

MOM systems with SCADA and APS functionalities, such as those offered by iTAC, the parent company Dürr and the subsidiary DUALIS in combination, offer various advantages over traditional MES. The switch from monolithic systems to microservice-oriented architectures enables greater flexibility, scalability and agility in the production environment.

Thanks to the modular structure of the MOM, companies can select specific functions from the standard portfolio in a process-oriented manner, configure

DÜRR GROUP.

them as required and – if necessary – adapt them in order to optimally integrate the processes and achieve the desired benefits.

From MES to MOM

"The switch from MES to MOM brings significant benefits for production management and the supply chain. In times of increasing threats to companies from criminal hackers and institutions, future-proof MOM systems must now also be developed, integrated and operated with a strong focus on IT security. By introducing security measures in all aspects, companies can achieve a secure, robust and trustworthy manufacturing IT landscape that meets the requirements of a modern factory," says Volker Burch.

iTAC ensures that security aspects are integrated into the process right from the start. From development to implementation and operation of the iTAC.MOM.Suite, clear guidelines and state of the art standards are followed. A holistic approach – from architecture and software design to implementation, testing and deployment – takes the relevant security aspects into account at every stage and is supported by established, audited processes and tools. While there used to be common security vulnerabilities in the development of software, these are now largely eliminated thanks to the support of tools that provide early warning of potential threat scenarios.

Laws and guidelines provide a new framework

There are also various efforts and measures on the part of legislators to strengthen the resilience of organizations to cyber attacks and to minimize the impact of security incidents. The Cyber Resilience Act is currently gaining in importance in this context.

Volker Burch explains: "The Cyber Resilience Act is a clear call to action that requires companies to strengthen their security measures and proactively address cyber threats. By implementing cybersecurity best practices, organizations can not only protect their data and operations, but also protect their investment and reputation by building trust with customers. Otherwise, security incidents cause potential financial losses and reputational damage. In addition, the Cyber Resilience Act offers companies the opportunity to

differentiate themselves from competitors by demonstrating that they are actively addressing cybersecurity challenges and continuously improving their systems and processes."

Compliance with guidelines and laws is also of global relevance, as Volker Burch points out: "By investing in secure systems such as our MOM, companies can not only protect their own interests, but also help to strengthen the overall security of the digital industry."

MOM from iTAC provides security at all levels
Image source: AdobeStock_601359663

About iTAC

iTAC Software AG, an independent company of the mechanical and plant engineering firm Dürr, provides internet-enabled information and communication technologies for the manufacturing industry. Founded in 1998, the company is one of the leading MES/MOM providers. The iTAC.MOM.Suite is a holistic Manufacturing Operations Management that is used worldwide by companies in different industry sectors such as automotive, electronics/EMS, telecommunication, medical engineering, metal casting and energy. Additional services and solutions for implementing IIoT and Industry 4.0 requirements complete the portfolio. iTAC Software AG is headquartered in Montabaur, Germany and has offices in the USA, Mexico, China and Japan and has a worldwide partner network for sales and service. ITAC's philosophy is to connect people, data and systems.

The Dürr Group is one of the world's leading mechanical and plant engineering firms with particular expertise in the technology fields of automation, digitalization, and energy efficiency. Its products, systems, and services enable highly efficient and sustainable manufacturing processes – mainly in the automotive industry and for producers of furniture and timber houses, but also in sectors such as the chemical and pharmaceutical industries, medical devices, electrical engineering, and battery production. In 2023, the company generated sales of €4.6 billion. The Dürr Group has around 20,500 employees and 142 business locations in 32 countries, and it operates in the market with five divisions.

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