

Cloud-based solutions in the industry

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We use more and more cloud services in our everyday life – for gain and share information, storing pictures and datas, ordering and paying products and services, using social media - and even become part of our life.

These solutions are gaining momentum year by year, and the firsts are also slowly emerging for the industry. To implement the guiding principles of Industry 4.0, production facilities across the world must be comprehensively networked, and field devices must be complemented by software services. This is the only way to reliably exchange data safely and reliably between the machines as well as integrate external information into the overall solution.

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Industry 4.0 – where the information technology and automation are more and more interlinked – requires this solutions, because it supports to achieve:

- data collection and aggregating worldwide, and comprehensively evaluated through integration with big data applications.
- connection between IoT devices and automation system
- managed and continuously updated softwares
- scalable system performance
- adequate information for greater efficiency
- optimally performing operations requiring greater computing capacity

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Nowadays, many solutions exist, but these solutions can only be widespread in the industry if the transmission, processing and storage have adequate protection, because these data contains sensitive production informations, or business secrets, and if the system is not protected against an external attack, can get a lot of damage to the factory. It is mandatory that the decision-makers and designers trust the reliability of the method, and the system support the easy usage and interoperability between different systems.

The presentation gives an overview the necessity, benefits and safety requirement of cloud-based industrial data processing and controls, as well as practical implementation through „Proficloud” system.

It is also important to present the appropriate integrity level where the local control and cloud solutions harmonize with each other.