

What is Industrial Internet of Things (IIoT)?

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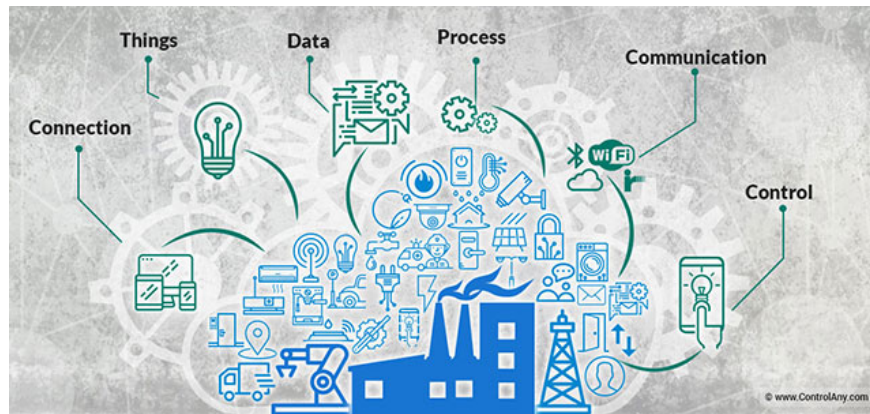
IIoT is part of a larger concept called Internet of Things (IoT).IoT is the connection of devices, computers, objects to collect and share a large amount of data.This data will be sent to a centralized cloud service, where it aggregates data and shares with end users in a way that is useful to them.IoT will increase automation in houses, schools, shops and many industries.

The application of IoT in the manufacturing industry is called IIoT (Industrial Internet or Industry 4.0).IIoT will revolutionize production through the acquisition and access to huge data sources with much greater and more efficient speeds than ever before.Many pioneering companies have started adopting IIoT using networked devices and artificial intelligence in the factory.

Benefits of IIoT?

IIoT can significantly improve connectivity, efficiency, and influence, saving time and costs for organizations.Companies that benefit from the application of IIoT through cost reduction are due to predetermined maintenance, higher safety levels and many other operational efficiency criteria.

IIoT's smart devices network allows organizations to access huge data sources, connecting people, data and processes from factories to managers.Business leaders get an accurate and complete view of the company's work, and make more informed decisions.



IIoT connection system will bring many benefits for businesses

IIoT protocols

One of the problems encountered in transferring to IIoT is that different network devices often use different protocols to send and receive data. Although there are many communication protocols such as OPC-UA, the MQTT (Message Queuing Telemetry Transport) protocol is quickly becoming the standard for IIoT by low operating costs, publishing / tracking models and capabilities. bilateral operation.

The challenge that IIoT faces

Compatibility and security are probably the two biggest challenges when implementing IIoT. Technology specialist Margaret Rouse said 'the biggest concern around IIoT is the interoperability between devices and machines using different protocols and architectures'.

Companies need to secure their data. Using multiple sensors and other smart networking devices leads to more security holes. Therefore, the MQTT is more popular because it is a very secure protocol.

The future of IIoT

IIoT is said to be one of the trends of today's industries in the future. The industries are trying to modernize the system and equipment to meet new requirements, keep up with the market with increasing speed, anticipating new technologies.

Enterprises that have implemented IIoT have significantly improved their safety, efficiency and profitability and hope that the day trend will be more and more deployed by many businesses.

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