

Automating With Profinet Industrial Communication Based On Industrial Ethernet Author Raimond Pigan Published On December 2008

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Synopsis. PROFINET is the first integrated Industrial Ethernet Standard for automation, and utilizes the advantages of Ethernet and TCP/IP for open communication from the corporate management level to the process itself. PROFINET CBA divides distributed, complex applications into autonomous units of manageable size.

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PROFINET is 100 percent Industrial Ethernet – the standard that has been established in industrial communications since the 1990s. This creates the basis for a uniform automation network to which automation devices and standard Ethernet devices can be connected.

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PROFINET creates the ideal basis for machines that must achieve a high product throughput combined with high product quality: PROFINET lets you ensure fast processing procedures, reproducible time parameters, and maximum accuracy for all processes, even with local automation for your machines. PROFINET does this not only using IRT technology (real-time capability) for motion control applications, but also with cycle synchronicity with jitter accuracy of less than 1 µs.

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Siemens consistently relies on PROFINET, the open Industrial Ethernet standard, for both the manufacturing and process industry. That’s why devices and systems communicate via PROFINET throughout Siemens’ uniquely complete automation and drive portfolio. Discover the wide range of products – right through to software solutions and tools.

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In the 90s, Ethernet spread into IT and industry. With the PROFINET standard, Ethernet has been extended by the features for networking in automation and has been used successfully since then. Today, it is impossible to imagine production without both systems. Through additional extensions, PROFINET is now also used in process automation.

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Profinet (usually styled as PROFINET, as a portmanteau for Pro cess Fi eld Net) is an industry technical standard for data communication over Industrial Ethernet, designed for collecting data from, and controlling equipment in industrial systems, with a particular strength in delivering data under tight time constraints.

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PROFINET is the first integrated industrial Ethernet Standard for automation, and utilizes the advantages of Ethernet and TCP/IP for open communication from the corporate management level to the process itself. <p>PROFINET IO, with its particularly fast real-time communication, fulfills all demands currently placed on the transmission of process data and enables easy integration of existing ...

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