

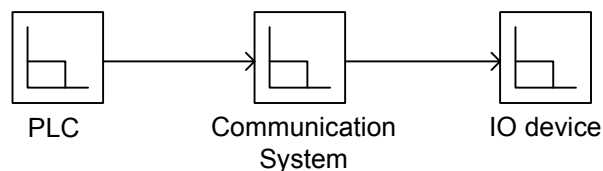
# Master-IT: Project work WS2010/2011

Area: Industrial Communication

## Performance Investigation of IO Components for Industrial Real Time Ethernet

start: Immediately

The performance of industrial automation communication systems has increased since Ethernet is used as a base technology. Real Time Ethernet standards like PROFINET IRT or EtherCAT enable cycle times of less than 0,5ms. This communication performance will be usable for the application if the chain of PLC (programmable logic controller), communication systems and IO devices offer this performance.



This project work aims at investigation the communication latency of IO components. Furthermore the objective is to design an IO component architecture that offers a minimum latency between communication cycles and applications. Supporting technology will be FPGA.

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Fraunhofer IOSB-INA  
Kompetenzzentrum Industrial Automation  
Langenbruch 6  
32657 Lemgo

Kontakt  
Sebastian Schriegel, M.Sc.  
Telefon: +49 5261 702-5925  
sebastian.schriegel@iosb-ina.fraunhofer.de