

Topic: Benchmarking of OPC UA PubSub Implementations

Abstract: The goal of this thesis is the benchmarking of different OPC UA PubSub implementations as preparatory work for an ongoing research project. OPC UA is an important industrial specification and with the new part OPC UA PubSub, it becomes a viable option for field level devices. The responsibilities of this work include the identification of existing solutions, listing of suitable evaluation criteria, the measurement based on the evaluation criteria including the implementation of the identified solutions.

Recommended Skills:

- Understanding of computer networks
- Understanding of protocols
- Understanding of measurement processes
- Basic understanding in the programming languages C99 und C++
- Basic handling in a Linux-environment is desirable

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