Implementation and Evaluation of the Time Synchronization Approach PTP-LP in OMNeT++ and in a Real Testbed

- Language: German or English
- Prerequisites:
  - Networking technology
  - C/C++ Programming
  - Beneficial: knowledge about the OMNeT++ network simulator
- Tasks:
  - All tasks shall be implemented using the given Python model of PTP-LP and the existing model in OMNeT++
  - Optimization of the PTP-LP model in OMNeT++
  - Evaluation and comparison with the state of the art (e.g., NTP, PTP) under various conditions:
    - Different network topologies
    - Different network sizes
    - Different background traffic conditions
  - Implementation and evaluation of PTP-LP in a real testbed
- Literature:
- Contact: henning.puttnies@uni-rostock.de

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**IEEE 1588**

https://www.ixxat.com/de/produkte/industrie-produkte/zeitsynchronisation/ieee-1588-ptp-protokollsoftware

https://www.perlesystems.de/supportfiles/precision-time-protocol.shtml