

Master-IT: Project work WS2010/2011

Area: Industrial Communication

Performance Evaluation of Ethernet AVB

start: immediately

partner: Fraunhofer IOSB-INA, Lemgo

Ethernet AVB (<http://www.ieee802.org/1/pages/avbridges.html>) is an emerging new standard for distributed Real-time applications and promises interesting features for mission-critical applications. The usage of AVB in industrial applications is not well studied. Based on first results at our institute [1] a test bed for performance evaluation and demonstration should be set up.

Goals

- Design of an test bed for an Ethernet AVB demonstrator, setting the requirements and performance metrics
- Setup the demonstrator based on available evaluation boards
- Carry out the performance evaluation

[1] Imtiaz, Jahanzaib; Jasperneite, Jürgen; Han, Lixue: A Performance Study of Ethernet Audio Video Bridging (AVB) for Industrial Real-time Communication. In: 14th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2009) Palma de Mallorca, Spain, Sep 2009.