

PERVASIVE COMPUTING GROUP

Institute of Networked and Embedded Systems / Klagenfurt University

Guest Lecture „RFID Topics “

Held by: Dipl.-Ing. Dr. techn. Ulrich Neffe
NXP Semiconductors Austria GmbH



Abstract:

Radio Frequency Identification Technology has got the attention of the public after the terror attacks in 2001 and the publications of the plans for the Future Store by the Metro group. The terror attacks caused the usage of RFID for securing personal documents that are used to identify persons. The future store concentrated on the identification of objects to track goods within a large retail system. In both cases the used RFID devices are power by an electromagnetic field but they have completely different requirements on operating distance, data storage, performance, security or pricing.

This lecture covers the main aspects of this technology. It will start with an introduction to RFID, an overview on the history and an outlook on this lecture. The first section describes the different RF communication technologies dependent on the carrier frequency. The second section covers the identification of objects and persons in detail. The third section describes the current RFID market with its privacy discussions and gives an outlook on new applications and required changes in technology. RFID prototyping environments are used to demonstrate the technology during the lecture. Integrated exercises support the understanding of RFID applications.

Topics:

RFID Technology | RFID Applications | RFID Market | Outlook |

Time:

October 17	09am-05pm	HS A
October 18	09am-05pm	HS 8
October 24	09am-05pm	HS 2
October 25	09am-05pm	HS 2

ALPEN-ADRIA
UNIVERSITÄT
KLAGENFURT

