

# Anonymous VPN for Mobiles

## Motivation:

Transactions of electronic devices can be easily traced e.g. tracking of cars via road pricing systems, tracking of people's movement via access control systems or monitoring access logs of web servers. Cryptographic methods preventing this have been developed recently and are waiting to be incorporated into existing authentication frameworks.

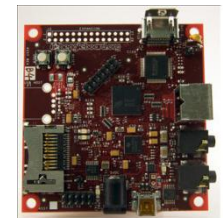
## Project description:

The idea of this project is to develop a VPN solution for desktop systems and J2ME/CLDC compatible mobile devices. This solution should prevent malicious entities to track and monitor the transactions performed over the internet by a certain device thereby protecting the device's anonymity. The solution has to be interoperable with the VPN solution developed by IAIK. Source code that can be used as a basis exists.

The solution should work on one of the devices pictured in the next column a gumstix, a cell phone or an embedded ARM processor like the devices pictured in the next column.

## Tasks:

- Understand the principles of Virtual Private Networks
- Get familiar with state-of-the-art cryptographic anonymisation methods
- Develop a VPN client & server solution for J2SE & J2ME/CLDC platforms



## Master Project

**Participants:** 1-2 Students

## Prerequisites:

- Experience with C & Java software development
- Crypto 1 & Crypto 2 Lectures

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**Studies:**  INF  SEW  TEL  Master Thesis

The master project can be continued as master thesis.