

## **Abstract**

This report describes a project focused on solving one problem in mobile communication. The problem is incompatibility of various systems destined to provide connection between two mobile stations.

Idea of the project is to prototype a mobile station which would be able to download new transport and data link communication protocol from basic station and adapt to these no-the-fly.

Main goal of my work was to design two modems, manage connection between them and test a communication protocol on this link to demonstrate the feasibility of such approach.

The project was undertaken as part of Bachelor studies at Czech Technical University in Prague, Czech Republic. The project placement took place at Department of Electronics at Bournemouth University, England.