# Mobile AD-Hoc Network Projekt

### First short presentation

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### **Hardware Specification**





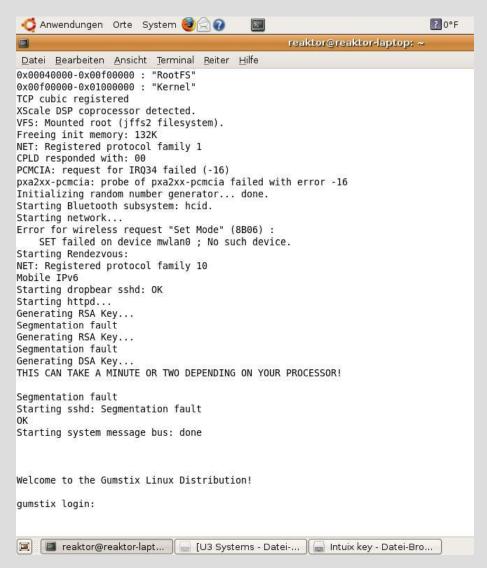


- Gumstix Verdex motherboard
- Speed:400MHz
- 64MB RAM
- 12MB FLASH

- Console-ST
- Adds two serial ports and usb Port

- WIFISTIX
- 802.11(b) and 802.11(g)
- Channels 1-13

# **Network Configuration**



#### What we have done in the last weeks:

- Installing Linux and learning the basics of working with Linux
- Configuring the USB-Network
- •Flashing the Gumstix with the newest buildroot release (added usefull paketes like TCPDump and driver for WIFISTX)
- Setting up/testing wireless LAN in Ad-hoc
  Mode
- •Install the Buildroot Crosscompilation Software on the Laptop

## **Idea of Wolf Pack**



#### **Backround from the nature:**

- Wolf Pack
- One Alpha Wolf
- All other follow the alpha animal

## **Motivation**



#### sector of the economy:

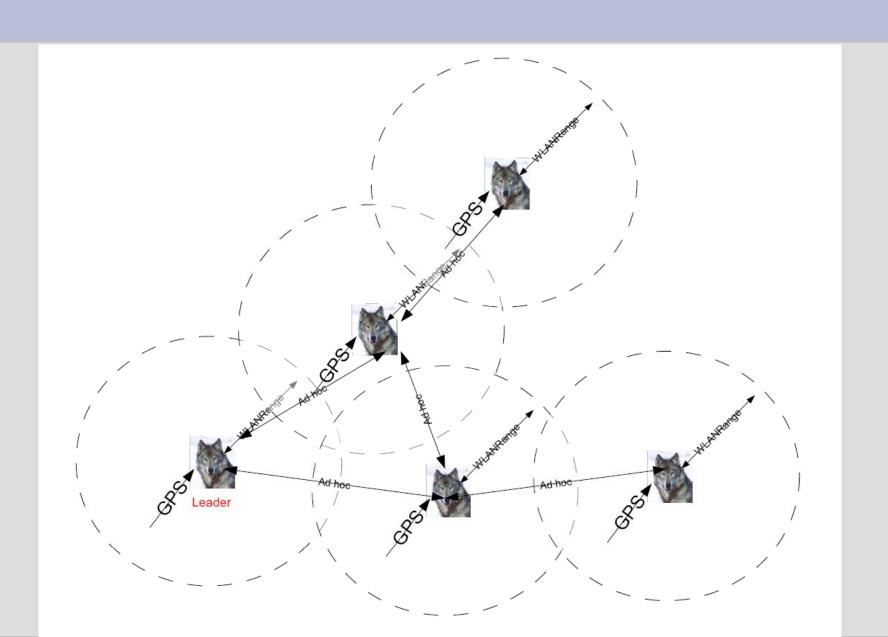
• Cheaper transportation of goods through land, air and water



#### military use:

• safe of money and human life

# Setup



### Referencelist:

- Our supervising tutor Chia Ching Ooi
- Prof. Schindelhauer Mobile Ad Hoc Networks
- http://docwiki.gumstix.org/
- Ram Ramanathan, Jason Redi. A Brief Overview of Ad Hoc Networks:
  Challenges and Directions
- Imrich Chlamtac, Marco Conti, Jennifer J.-N. Liu, Mobile Ad Hoc Networking: Imperatives and Challenges, in Ad Hoc Networks
- Wolfgang Kiess, Martin Mauve, A Survey on Real-World Implementions of Mobile Ad-Hoc Networks, in Ad Hoc Networks

## **END**

### Thanks for your attention



Have a nice day